IGBINEDION UNIVERSITY, OKADA

Prospectus

(2016 – 2020 Academic Session)

IGBINEDION UNIVERSITY PRESS
OKADA
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COLLEGES, SCHOOLS AND DEPARTMENTS

(1) College of Arts and Social Sciences
   (i) Department of Economics and Development Studies
   (ii) Department of English
   (iii) Department of Geography and Regional Planning
   (iv) Department of International Relations & Strategic Studies
   (v) Department of Mass Communication
   (vi) Department of Political Science/Public Administration
   (vii) Department of Sociology/Anthropology
   (viii) Department of Theatre Arts

(2) College of Business and Management Studies
   (i) Department of Accounting
   (ii) Department of Business Administration
   (iii) Department of Banking and Finance

(3) Abdulsalami Abubakar College of Engineering Technology
   (i) Department of Chemical Engineering
   (ii) Department of Petroleum Engineering
   (iii) Department of Civil Engineering
   (iv) Department of Electrical/Electronics/Computer Engineering
   (v) Department of Mechanical Engineering

(4) Oba Okunade Sijuwade College of Health Sciences
   (a) School of Basic Medical Sciences:
      (i) Department of Anatomy
      (ii) Department of Biochemistry
      (iii) Department of Physiology
      (iv) Department of Medical Laboratory Sciences
   (b) School of Clinical Medicine:
(i) Department of Anaesthesiology
(ii) Department of Community Medicine
(iii) Department of Chemical Pathology
(iv) Department of Haematology & Blood Transfusion
(v) Department of Medicine
(vi) Department of Medical Microbiology
(vii) Department of Morbid Anatomy
(viii) Department of Obstetrics & Gynaecology
(ix) Department of Paediatrics & Child Health
(x) Department of Therapeutics & Pharmacology
(xi) Department of Psychiatry
(xii) Department of Radiology
(xiii) Department of Surgery
(xiv) Department of Nursing Science

(5) **College of Pharmacy**
   (i) Department of Pharmaceutics and Pharmaceutical Technology
   (ii) Department of Pharmaceutical Chemistry
   (iii) Department of Pharmaceutical Microbiology
   (iv) Department of Pharmacognosy
   (v) Department of Clinical Pharmacy & Pharmacy Practice
   (vi) Department of Pharmacology & Toxicology

(6) **Oba Erediauwa College of Law**

(7) **College of Natural and Applied Sciences**
   (i) Department of Biological Sciences
   (ii) Department of Chemical Sciences
   (iii) Department of Computer Science & Information Technology
   (iv) Department of Physics/Industrial Physics

(8) **Other Academic Units**
   (i) Human Help Services
   (ii) General Studies Unit
   (iii) Academic Planning
   (iv) Centre for Entrepreneurship
   (v) Community Service Programme
   (vi) Centre of Presidential Studies
   (vii) Centre for Edo Studies

(10) **Units**
   i) Vice Chancellor’s Office
   ii) Deputy Vice Chancellor’s Office
   iii) Registry
   iv) Bursary
   v) Library
   vi) Sports
   vii) Student Affairs
   viii) Works
   ix) Igbinedion University Staff School
Honorary Graduates

List of Graduating Students 2002/2003
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List of Graduating Students 2014/2015
List of Graduating Students 2015/2016
FOREWORD

Professor Eghosa E. Osaghae
Vice-Chancellor

On behalf of Igbinedion University, Okada, I welcome all the new and old students to this great citadel of learning. I also wish you all an enjoyable and successful stay in the University and successful academic years ahead.

In this edition of the prospectus, the academic programmes of most departments have been upgraded. They contain relevant general information about the University, including the courses available and their outlines. It is my hope that you will find this prospectus a most invaluable document.

May I seize this opportunity to remind both staff and students that the primary objective of the University is to advance knowledge, wisdom and understanding through teaching and research in order to give service to the community; and that the University will confer degree only on those who are found to be worthy in character and learning. I therefore hope that we shall all resist the temptation to engage in unproductive ventures and social vices.

The motto of Igbinedion University is KNOWLEDGE AND EXCELLENCE. Therefore, I invite every student to share our ideals of learning and research which will be combined with practical application in development. The strength of the University lies in its orientation towards productivity, self-employability, self-sustenance and self-reliant training for the student.

Welcome to our world.
Chief Sir (Dr) Gabriel Osawaru Igbinedion, CON, CFR
GCKB, DLITT, LLD, MIT, CFR, JP
Esama of Benin
Chancellor / Visitor
Dr. Lucky Nosakhare Igbinedion
Deputy Chancellor
Emeritus Prof. Oluwale E. Akande
Pro-Chancellor/Chairman of Council

Professor Eghosa E. Osaghae JP
Vice Chancellor
VISION

To become a centre of academic excellence through teaching and research activities in response to communal and globalized human needs.

MISSION

1. To be among the best and most successful universities in the country.
2. To provide overall service and good value for money in the university education.

3. To excel in anticipating, responding quickly and competitively to students needs and staff development.

4. To maintain a growth that responds to overall global expansion and challenges in teaching and research.

5. To produce through our quality programmes, university graduates whose certificates open all doors to upward economic and social mobility.

6. To expand our research activities globally by creating linkages and collaboration networks amongst leading universities and research institutions worldwide.

7. To regularly seek to maintain the acquisition of knowledge and excellence.

8. Igbinedion University will operate a competency driven scheme which allows staff to acquire new skills, improve knowledge base and remain competitive in their areas of specialization.

9. To regularly survey the environment in order to identify areas of need with a view to contributing to the community and registering a significant presence nationally and worldwide.

ACCREDITATION

Academic programmes (undergraduate and postgraduate) offered by Igbinedion University are accredited by the National Universities Commission (NUC), the federal regulatory agency for university education in Nigeria. In addition, professional programmes are also accredited by professional regulatory agencies as required by law. These include the Medical and Dental Council of Nigeria, MDCN (for medicine), Council for the Regulation of Engineering in Nigeria, COREN (Engineering programmes), Council of Legal Education (Law), Pharmacists’ Council of Nigeria, PCN (Pharmacy), Medical Laboratory Council of Nigeria (Medical Laboratory Sciences), and Institute of Chartered Accountants of Nigeria, ICAN (Accounting).

RECOGNITIONS AND DISTINCTIONS

- First First Class Honours graduate in Nigerian Bar Examinations from Private University (2006).
- Pioneer and leading private university medical school.
- Top Engineering College in Private University Sector (2006-2012)

HISTORICAL NOTES
Igbinedion University, Okada marks the realization of the dream of Chief (Sir) Dr. Gabriel Osawaru Igbinedion, the Esama of Benin Kingdom, to bequeath to future generation of Nigeria University education of international standard where academic calendar is faithfully run without interruption.

The Planning Committee was inaugurated on 13\textsuperscript{th} March 1995, comprising distinguished scholars and seasoned University administrators whose responsibilities amongst others included the formulation of the Academic Brief for the actualization of the Igbinedion University project.

The members of the Committee were: Chief (Dr) Sir G. O. Igbinedion \textit{JP} (Proprietor/Chairman), Late Pa S. I. Omorogbe, \textit{JP} (Vice Chairman), Prof. T. M. Yesufu, Amb. (Dr.) A. I. Guobadia, Mr. Frank I. Imouokhome, Late Prof. P. N. Egharevba, Mr. Bright Igbinedion, A. O. Eghobamien Esq \textit{(SAN)} (Member/Legal Adviser), Late Prince R. A. Williams \textit{JP} (Member/Secretary).

The Committee’s dedication to duty and resolute determination to provide a unique platform for higher education in Nigeria resulted in the presentation of Certificate No. 01 dated 20\textsuperscript{th} April 1999, to Chief Igbinedion on 10\textsuperscript{th} of May 1999. An Implementation Committee was immediately constituted on 12\textsuperscript{th} May 1999 with the enlargement of the Planning Committee to include Prof. E. U. Emovon, \textit{FAS} as the interim Vice Chancellor, Hon. Justice I. O. Aluyi, (Rtd), Mr. I. E. Edokpolor and Dr. T. B. E. Ogiamien, with Prince R. A. Williams as the Registrar. The Committee was dissolved with the inauguration of the Governing Council of the University on 14\textsuperscript{th} October 1999 by the Proprietor and Chancellor. The Implementation Committee worked assiduously for six months as the Provisional Governing Council and Senate, guiding the physical and academic developments of the University. Prof. Bashir Ahmad Ikara was the Pro-Chancellor and Chairman of the Governing Council whose composition spanned the length and breadth of Nigeria and covered a variety of professions and interests. The members included: Prof. Bashir Ahmad Ikara - Pro-Chancellor & Chairman, Prof. E. U. Emovon, \textit{FAS} - Vice Chancellor ad interim, Mr. Bright Igbinedion, Dr. B. J. E. Itsueli, Prof. A. U. Osagie, Dr. S. A. Ingawa, Prof. P. O. Erhabor, Prof. Olu Aina, Prof. G. C. Onyemelukwe, Prof. Mike Kwanashie, Engr Festus Omo Evbuomwan, Hon. Justice (Rtd) I. O. Aluyi, Amb. (Dr.) Abel I. Guobadia (\textit{JP}), Chief Eduwu Ekhator Obasogie (\textit{JP}), Chief M. Okoya Thomas, Prof. Ikejiani-Clark, Prof. A. Akindoyemi, Prof. U. Joy Ogwu, Mr. R. A. Williams (\textit{JP}) - Registrar & Secretary.

Profeess Anthony U. Osagi who was appointed Vice-Chancellor, served from 29\textsuperscript{th} October, 1999 to 30\textsuperscript{th} November, 2003, while Prince R.A. Williams remained the Registrar and Secretary to Council till 31\textsuperscript{st} May, 2000. Thereafter, Mrs. O.T. Oni (Deputy Registrar) acted as the Registrar from 1\textsuperscript{st} June 2000 to 28\textsuperscript{th} November, 2001. Dr. (Mrs.) S.A. Asagwara assumed duty as the second substantive Registrar and Secretary to Council on 29\textsuperscript{th} November 2001. Dr. (Mrs.) Asagwara withdrew her service on 31\textsuperscript{st} July 2007. Mr. P.S. Nwaokolo served as the Acting Registrar from 1\textsuperscript{st} August, 2007 to 5\textsuperscript{th} May, 2009. On 6\textsuperscript{th} May, 2009, Mr. Edwin O. Okoro assumed duty as the third substantive Registrar. Dr. D.O. Olopade assumed duty as Bursar on 12\textsuperscript{th} November, 2001 while Mr. R. Olorunsola became the Ag. University Librarian on 22\textsuperscript{nd} November 2002. Dr. (Mrs.) G.D. Ekpenyong served as University Librarian from 13\textsuperscript{th} March, 2007 to 29\textsuperscript{th} January, 2009. Prof. Olu Aina assumed duty as the Ag. University Librarian from 1\textsuperscript{st} June, 2009. Dr. (Mrs.) G.D. Ekpenyong served as University Librarian from 13\textsuperscript{th} March, 2007 to 29\textsuperscript{th} January, 2009. Mr. Osas T. Ebyekhia was appointed Acting Bursar on 3\textsuperscript{rd} September, 2010.

With the exit of Prof. Ikara in 2001, in response to a call for national service, Prof. Olu Aina, OFR, former Registrar and Chief Executive of National Business and Technical Examinations Board (NABTEB), was appointed the Pro-Chancellor and Chairman of the Governing Council. Prof. Nduka Uraih served as Deputy Vice Chancellor from 2000 – 2003 and as Ag. Vice Chancellor from
December 2003 to 11th September, 2004 following the expiration of the tenure of Prof. A.U. Osagie. In July 2004, the Council was reconstituted and Prof. Olu Aina OFR was re-appointed the Pro-Chancellor and Chairman of the current Governing Council to which Prof. Femi Odekunle was appointed a member on 13th September 2008.

On 13th September 2004, Professor Eghosa E. Osaghae of the University of Ibadan, assumed duty as the second substantive Vice Chancellor, He was re-appointed for a second term of five years on 13th September 2008 and reappointed again on 8th July 2013 with effect from 13th September 2013. Professor Dennis E. Agbonlahor, former Vice Chancellor of Ambrose Alli University, Ekpoma, was appointed Administrative Consultant to the University in September, 2004, to help ease off the task of the Hon. Chancellor, a position he held until February 2006. on 12th September 2005. Prof. L.C. Chiedozi was appointed the second Deputy Vice Chancellor. On expiration of his tenure, Prof. (Mrs.) Tonye G. Okorie was appointed Deputy Vice Chancellor on 13th September 2008. On 1st October 2013, Prof. Alexander B. Odaibo was appointed Deputy Vice Chancellor following the expiration of the tenure of Prof. (Mrs.) Tonye G. Okorie. Prof. (Mrs.) Charity U. Emaviwe was appointed Deputy Vice Chancellor on 1st September, 2015 on the expiration of the tenure of Prof. Alexander B. Odaibo.

**Academic History**

The University commenced its academic programmes in the 1999/2000 session in five Colleges namely, Arts and Social Sciences, Business and Management Studies, Health Sciences, Law and Natural and Applied Sciences. The foundation students arrived Okada on Friday, 15th October 1999. Since then, the University has without interruption upheld its resolve to return tertiary education to the internationally accepted calendar of September to June. The College of Engineering commenced its programme in the 2002/2003 session. The College of Health Sciences continues to be an area of popular demand. The College of Pharmacy and B.Sc. Nursing commenced in 2004/2005 session. The Igbinedion University Teaching Hospital, administered by a Management Board inaugurated first on 12th January 2003, oversees the affairs of the Hospital. As part of its objectives to train and produce job providers, Igbinedion University has packaged entrepreneurial and skills acquisition modules to expose students sufficiently enough to be “fit for the world of work”. In addition, a community service programme was introduced in the 2009/2010 session. Under the programme, all second year students across the Colleges are required to undertake a practical development programme in a chosen area and community in and round the university community/town.

The student population has grown steadily from 111 in the 1999/2000 session to 4018 in 2014/2015, while the staff strength has increased from 55 in 1999/2000 to 617 made of 293 Teaching Staff (53 of who are Professors), 143 Senior Non-Teaching staff and 191 Junior and Intermediate staff over the same period.

Academic programmes in Medicine, Law, Arts and Social Sciences, Business and Management Studies, Natural and Applied Sciences, and Engineering, which are mature are re-accredited, from time to time by Nigerian Universities Commission and the relevant professional bodies.

The Oba Erediauwa College of Law turned out its first crop of graduates in 2004. The eleventh batch graduating today is already at the Law School.

At this convocation, the University is graduating its eighth set of Medical Doctors, and has continued to maintain the distinction of being the first ever Private University in Africa, South of the Sahara to produce medical doctors. The University is also graduating her eighth crop of talented and well groomed Engineers from the Gen. Abdulsalami Abubakar College of Engineering.
UNIVERSITY ADMINISTRATION (1999 TO DATE)

I. **Vice-Chancellors**
   2. Prof. Nduka Urai (Acting) - 1st December, 2003 – 11th September, 2004
      2nd Term: 13th September, 2008 to date

   **Administrative Consultant to the University**
   Prof. Dennis E. Agbonlahor - 13th September, 2004 – 28th February, 2006

II. **Deputy Vice-Chancellors**
   3. Prof. (Mrs.) Tonye G. Okorie - 15th September, 2008 to 30th September, 2013
   4. Prof. Alexander B. Odaibo - 1st October, 2013 to 1st September, 2015
   5. Prof. Charity U. Emaviwe FCIArb - 1st September, 2015 to date

III. **Registrars and Secretary to Council**
    1. Mr. R.A. Williams, JP - 14th October, 1999 – 31st May, 2000
    3. Dr. (Mrs.) Sally A. Asagwara - 29th November, 2001 – 31st July, 2007
    5. Mr. Edwin O. Okoro - 6th May, 2009 to date

IV. **Bursars**
2. Mr. Fred S. Idemudia, Ag. Bursar -

3. Mr. O.T. Evbayekha - 11th November, 2007 – October 2010

4. Mr. Nosa Edogiawerie, Bursar - October, 2010 to date

IV. Librarians
1. Mr. F. A. Akinyotu (University Librarian) – October, 1999 – 29th October, 2001

2. Mr. D. A. Idada (Acting Librarian) - 29th October, 2001 – 30th April, 2002


5. Dr. (Mrs.) G.D. Ekpenyong (University Librarian) – 13th March, 2007 – 29th January, 2009

6. Mr. Yakubu A. Izevbekhai (University Librarian) – 1st June, 2009 to date

UNIVERSITY FOUNDATION DAY
Following the presentation of the Certificate to establish Igbinedion University to Chief (Dr.) Sir Gabriel Osawaru Igbinedion on 10th May 1999, the date 10th May has been adopted as the University’s foundation day. Consequently, the maiden celebration was marked in May 2005, second in May 2006, the third in 2007, the fourth in May 2008, the fifth in May, 2009, the sixth in May, 2010, the seventh in May, 2011, the eight in May, 2012, the ninth in May, 2013 and the tenth in May, 2014. The University celebrated its 10th milestone anniversary in May 2009.

COLLABORATIONS LINKAGES
The University has been working in collaboration with
i) Westminster University, United Kingdom
ii) Howard University, Washington, U. S. A. in various areas of academic endeavour.
iii) Otto-VON-Guericke University of Magdeburg, Germany
iv) University of Sierra-Leone
v) Ryokuku University, Japan
vi) East Carolina University, U.S.A.

SENATE MEMBERS

<table>
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<tr>
<th>Name</th>
<th>Designation</th>
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<tr>
<td>Prof. E.E. Osaghae</td>
<td>Vice Chancellor/Chairman</td>
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</table>
Prof. Charity U. Emaviwe
Deputy Vice Chancellor

Mr. Y.A. Izevbekhai
University Librarian

Prof. J.A. Unuigbe
Provost, College of Health Sciences

Prof. Tonye G. Okorie
Dean, PG School & Research

Prof. J.M. Oke
Dean, College of Pharmacy/HOD, Pharmaceutical Chemistry

Prof. P. B. Ososan
Dean, College of Engineering

Prof. G.N. Bazauye
Dean, School of Clinical Medicine

Prof. R.J. Ijadola
Dean, Obafemi Awolowo University College of Law

Prof. L.C. Chiedozie
HOD Surgery

Prof. J.E. Ehigbonare
Dean, College of Natural & Applied Sciences

Prof. N.G. Osifio
Department of Pharmacology & Therapeutics

Prof. V.A. Josephs
HOD, Internal Medicine

Prof. F.C. Okafor
Department of Geog. & Reg. Planning CASS

Prof. M. I. Agba
HOD, Medical Microbiology

Prof. C.L. Orjiakwe
HOD, Chemistry, NAS

Prof. L. Anyanwu
HOD, Comp. Sci. & Information Technology

Prof. J.A. Awe
Department of Surgery

Prof. A.A. Gbolade
College of Pharmacy

Prof. P.I. Aziba
Department of Pharmacology

Prof. Sylvia Osemwenkha
Department of Sociology

Prof. I.A. Onyeakagbu
College of Law

Prof. O.A. Ugwumba
Department of Biological Sciences

Dr. R. Adegbey
Ag. Dean CBMS/Ag. HOD Banking & Finance

Dr. S.J. Josiah
Ag. Dean, Basic Medical Sciences

Dr. Deborah O. Odeji
Ag. Dean, CASS/Ag. HOD Econs. & Co-ord. SIWES

Dr. D.O. Osaghae
Ag. HOD, Pediatrics

Dr. D.O. Umobuarie
Ag. Director, EPS Programme

Dr. A. Labiran
Ag. HOD, Community Health

Dr. F.O. Oseji
Ag. HOD, Clinical Pharmacy & Pharmacy Practice

Dr. J.C. Nwanze
Ag. HOD, Pharmacology & Therapeutics

Dr. F.M. Olufunmilade
Ag. HOD, Inter. Rel. & Strategic Studies

Dr. D.U. Ibe
Ag. HOD, Public Law / Representative of Congregation

Dr. K.A. Digban
Ag. HOD, Medical Laboratory Science

Dr. Praise C. Daniel-Inim
Ag. HOD, Theatre Arts

Dr. Omimi-Ejoor Atu
Ag. HOD, Accounting

Dr. O.G. Izevuwa
Ag. HOD, Private & Property Law

Dr. A. Elebute
Ag. HOD, Mass Communication

Dr. E.J. Okafor-Elenwo
Ag. HOD, Biological Sciences

Dr. O.D. Poppola
Ag. HOD, Sociology & Anthropology

Dr. S.M. Aguvuwa
Ag. HOD, Business & Management Studies

Dr. F.N. Nwachokor
Ag. HOD, Morbid Anatomy

Dr. O.B. Idenije
Ag. HOD, Chemical Pathology

Dr. S.C.O. Nwangwu
Ag. HOD, Biochemistry

Mrs. F.U. Masajuwa
Ag. HOD, Political Science & Public Administration

Mr. F.A. Izilein
Ag. HOD, Electrical/Computer Engineering

Mr. I. Folorunsho
Ag. HOD, Geography and Regional Planning

Mr. O.B.D. Aromah
Ag. HOD, Pharmaceutical microbiology

Mr. M. Adeyabo
Ag. HOD, Pharmacognosy

Mr. I.O. Okechukwu
Ag. HOD, Nursing Science

Mrs. M.O. Ezugwu
Ag. HOD, Civil Engineering

Mr. C. Mamudu
Ag. HOD, English
PART I

LAW ESTABLISHING THE IGBINEDION UNIVERSITY, OKADA, NIGERIA

Introduction
The Law establishing the IGBOLEDION UNIVERSITY, OKADA derives from two main sources, namely:

i. The Federal Republic of Nigeria Companies and Allied Matters Decree (No.1) of 1990 under which a Memorandum and Articles of Association of the Igbinedion University incorporated (Limited Guarantee) was approved on 20th day of October, 1992 (Vide Certificate No.226006).

ii. The Education (National Minimum Standards and Establishment of Institutions) (Amendment) Decree 1993, otherwise known as Decree No. 9 of 1st January 1993 under which Certificate No. 01 of 24th April 1999 was issued by the Honourable Minister of Education on behalf of the Federal Military Government.

1. Short Title and Commencement Date
This Law may be cited as the Igbinedion University Law and shall be deemed to have come into force on the 10th day of May, 1999.

2. Interpretation
In this Law, unless the context otherwise requires:

“academic year” means such period not exceeding twelve consecutive months as the Senate may from time to time designate;

“alumni” means any association recognized by the Council as being representative of former students of the University;

“academic staff” means the Vice-Chancellor, Deputy Vice Chancellor, Professors, Associate Professors, Senior Lecturers, Lecturers, Assistant Lecturers, Graduate Assistants, the University Librarian, Librarians, Research Fellows and such other graduate persons in the employ of the University engaged in teaching or research responsibility therein as the Council acting in accordance with the recommendation of the Senate, may from time to time grant the status of members of the academic staff of the University;

“administrative staff” means those persons in the employ of the University, other than the academic staff, who hold administrative, professional or technical posts designated by the Council as senior posts;

“appointed day” means the day on which this Law comes into force;

“appointing body” means the person or body that has power to appoint;

“the board” means the Board of Regents/Trustees of the University in context;

“bursar” means the Bursar of the University;

“chancellor” means the Chancellor of the University;

“child” means a child or an adopted child of a staff who is an adult;

“college” means the College of the University;

“congregation” means the Congregation of the University established by Section 21 of this Law;

“convocation” means the convocation of the University established by Section 20 of this Law;
“council” means the Council of the University established by Section 15 of this Law;
“deputy Vice-Chancellor” means the Deputy Vice-Chancellor of the University;
“dependent” means a person who relies on a staff for support;
“functions” includes powers and duties;
“graduate” means a person on whom a degree other than an honorary degree has been conferred by the University and any other person as may be designated as graduate by the Council, acting in accordance with the recommendation of the Senate;
“husband” means the spouse of a staff of the University;
“non-academic staff” means administrative and other staff of the University;
“notice” means notice in writing;
“ordinance” means any Ordinances of the University made by the Council pursuant to the provision of this Law;
“other staff” means those persons in the employ of the University who are not members of the academic staff or the administrative staff;
“president” means the President of the Board of Regents;
“pro-chancellor” means the Chairman of the Governing Council of the University;
“professor” means a person appointed to be a Professor in the University and includes a Visiting Professor;
“property” includes rights, liabilities and obligations;
“prescribed” means prescribed by this Law or by Statutes, Ordinances or Regulations of the University;
“provisional council” means the Provisional Council established under the Igbinedion University (Provisional Council) Law;
“regents” means the Board of Regents of the University;
“registrar” means the Registrar of the University;
“regulation” means the Regulation of the University made by the Senate or by the Board as the case may be pursuant to the provision of this Law or the Statutes;
“senate” means the Senate of the University;
“statutes” means the Statutes of the University;
“student” means a person who has been registered as a student of the University during a current academic year for a first or higher degree, diploma certificate or such other qualification of the University as may be approved by the Senate as qualifying a person for the status of a student;
“trustees” means the Board of Trustees of the University;
“teacher” means a person appointed as a member of staff of the University on full-time or part-time teaching duties and shall include such persons employed on research duties in the University as are required also to teach;
“undergraduate” means a person who has matriculated and registered as a student undergoing a course of studies for a first degree of the University;
“university” means the Igbinedion University established by Section 3 of this Law;
“university librarian” means the Librarian of the University;
“vice-chancellor” means the Vice-Chancellor of the University;
“visitor” means the Visitor of the University;
“widow” means the wife of a deceased staff;
“wife” means the spouse of a staff of the University.

PART II

3. Establishment, Incorporation, Objects, Implementation of the Objects and Functions of the University

i. There is established, by Certificate No. 01 dated the 10 day of May, 1999, issued by the Hon. Minister of Education pursuant to the Education (National Minimum Standards and Establishment of Institutions) (Amendment) Decree No. 9 of 1st January 1993, IGBINEDION UNIVERSITY, OKADA hereinafter referred to as “the University.”

ii. The University shall be a body corporate with perpetual succession and a common seal and shall have power to sue and be sued in its corporate name and to acquire, hold and dispose of movable and immovable property for the purposes of its functions under this Law.

4. OBJECTS

The objects of the University shall be:

i. to train qualified personnel imbued with the spirit of service and development;

ii. to offer wide opportunities for higher education to all persons who can benefit from it, without distinction of race, religion, sex, or political conviction/persuasion;

iii. to train scientists, engineers, doctors, teachers, economists, lawyers and other professionals, including specialists in the field of humanities and to conduct research in science and technology;

iv. to carry out research in problems relating to the development of the national economy, science and technology and culture and to advance knowledge;

v. to train teachers and academic research staff for the universities and other higher educational institutions;

vi. to promote scientific knowledge and disseminate its results for socio-economic benefits;

vii. to undertake any other activities appropriate for a university of the highest standard.

5. FUNCTIONS OF THE UNIVERSITY

(1) In order to carry out its objects as specified in (4) above, the University shall have powers,

a) to establish Colleges, Campuses, Schools, Institutes, Departments and other teaching and research units within the University as may from time to time be deemed necessary and subject to the approval of the Governing Council and the Board of Regents;

b) to institute Professorships, Associate professorships, Lectureships, Research Fellowships and other offices and posts to which appointments can be made;

c) to institute and award fellowships, scholarships, bursaries, medals, prizes and other titles and distinctions, etc., and to mount exhibitions;

d) to prescribe from time to time the conditions under which persons shall be admitted to the University or to any particular course of study therein or to be allowed to continue in such course of study;
e) to grant and confer, under conditions prescribed by the University, Degrees, Diplomas, Certificates and other academic titles and distinctions, to and on persons who have pursued a course of study approved by the University and have passed such examinations or other tests and satisfied such other requirements as the University may prescribe;

f) to confer Honorary Degrees, Fellowships and other academic distinctions;

g) to deprive any person, for good cause, of any Degree, Diploma, Certificate, Fellowship, Scholarship, Studentship, Bursary, Medal, Prize or other academic titles conferred on him by the University;

h) to provide such lectures and instructions for persons not being members of the University as the University may determine and to grant to any such persons such Diplomas, Certificates or other academic distinctions as the University may deem necessary;

i) to accept the examinations passed and periods of study spent by students in the University as the University may determine, and to withdraw such acceptance at any time;

j) to affiliate with other institutions or branches or departments thereof and recognize selected members of the staff thereof as teachers of the University, and admit the members thereof to any of the privileges of the University, and accept attendance or departments thereof in such institutions or branches or departments thereof in place of such part of the attendance at course of study in the University and upon such terms and conditions as may from time to time, be determined by the University;

k) to make provision for research, advisory and consultancy services and with those objects in view to enter into such arrangements with both private and public bodies as the University may deem desirable;

l) to undertake printing, publishing and bookselling;

m) to engage in any agricultural, industrial and commercial ventures for the purpose of generating revenue for the promotion of the objectives of the University;

n) to cater for the welfare and discipline of members of the University and its employees;

o) to demand and receive such fees as may from time to time be prescribed by the University;

p) to acquire, hold, grant, charge or otherwise deal with or dispose of movable and immovable property wherever situate;

q) to accept gifts, legacies and donations at its absolute but without obligation to accept the same for a particular purpose unless the University approves the terms and conditions attaching thereto;

r) to enter into contracts, establish trust and incorporate companies solely or jointly with any other authority or institution and to employ and act through agents;

s) to erect, provide, equip and maintain libraries, laboratories, lecture halls, refectories, sports ground, playing fields and other buildings or things (whether in Nigeria or elsewhere) necessary or suitable or convenient for any of the objects of the University;

t) subject to any limitations or conditions imposed by or in accordance with the Law, to invest any moneys appertaining to the University by way of endowment and whether for general or special purposes, and such other moneys as may not be immediately required for current expenditure, in any approved investments or securities or in the purchase of improvement of land, with power from time to time to vary any such investment and to deposit any current moneys for the time being uninvested with any bank;

u) to take such steps as may from time to time be deemed expedient for the purpose of procuring contributions to the funds of the University;

v) to borrow, whether at interest or not and if need be upon the security of any or all the property, movable or immovable, of the university, such moneys as the University may from time to time in its discretion find necessary or expedient to borrow;

w) to make gifts for any charitable purpose;

x) to do anything which it is authorized or required by this Law or by Statute, Ordinance or Regulations to do;
y) to do all such acts and things whether incidental to the powers aforesaid or not as may be required in order to further the objects of the University as a place of education and of learning and research;
z) to establish linkages with other universities/comparable institutions and other agencies or development partners, with a view to building the capacity of the university;
(aa) to train or develop staff, explore local and international research opportunities and to secure grants for the development of the universities;
(ab) to pursue tenaciously, quality recruitment admission policies;
(ac) the University will aspire to develop flexible programmes that are responsive to local/national needs and beyond;
(ad) to articulate adequate welfare packages for staff with a view to developing a healthy workforce that is capable of carrying the University forward through its mission statement;
(ae) to make the University an active participant in the globalization and Information Communication and Technology (ICT) system with a view to bringing the University into direct access with the international community;
(af) to acquire landed property for the purposes of encouraging growth and development.

2. The powers conferred upon the University by sub-section (1) of this section shall not necessarily have to be exercised by the officers, authorities and persons mentioned in Part III as comprising the University acting together on any one occasion and any such powers may be exercised by any of those officers, authorities, persons or others where provisions enabling any of them so to do is made in or by virtue of this Law.

6. THE VISITOR AND HIS FUNCTIONS

(i) The President of the Board of Regents of Igbinedion University, Okada shall be the Visitor of the University.

(ii) The Visitor shall as often as the circumstances may require not being less than once in every five years undertake a visitation of the University or direct that such a visitation be conducted by a selected team of academics and professionals setup by the Visitor for the purpose of a visitation to:

   (a) conduct a programme on evaluation of the philosophy and targets of the University;
   (b) ensure that the academic currency originally envisaged is not devalued;
   (c) set up commissions of enquiry for the purposes of settling disputes, determining and resolving issues in respect of all or any part of the affairs of the University; and

(iii) It shall be the duty of all officers, members, authorities, employees of the persons otherwise connected with the University to make available to the Visitor, and to any other person or persons conducting a visitation in pursuance of this section such facilities and assistance as he or they may reasonably require of the visitation.

7 PROHIBITION OF DISCRIMINATION ON GROUNDS OF RACE, CREED, CLASS, RELIGION

(i) Membership of the University shall be open to all persons of either sex and of whatever race, ethnic group or place of origin, religion, political or other opinion, nationality or
class, and no test of religion or other belief or profession, shall be adopted or imposed in order to entitle any person to be admitted to membership or to be awarded any degree, certificate or other academic distinction of the University.

(ii) No Fellowship, Scholarship, Studentship, Medal, Prize or other academic distinction or award of the University shall be limited to persons of any particular race of ethnic group or place of origin, political or other opinion, religion, nationality, or class if the cost of the same is met from the general funds of the University.

8 COMMON SEAL
The Common Seal of the University shall be kept in such custody as the Council may direct and shall not be used except by resolution of the Council or in such other manner as may be prescribed by Statute.

PART III

The Constituent Bodies

9 PRINCIPAL OFFICERS, AND OTHER AUTHORITIES OF THE UNIVERSITY

The Visitor/Chancellor and his functions
There shall be a Chancellor of the University who shall be appointed by the Board of Regents and be Head of the University.

THE PRINCIPAL OFFICERS
(b) PRO-CHANCELLOR

1. The Pro-Chancellor shall be appointed and removed from office by the Visitor.

2. Subject to the provision of the law, the Pro-Chancellor shall be the Chairman of Governing Council and hold office for a period of 3 years commencing from the date of appointment, subject to renewal for another term of 3 years.

3. He shall, in relation to the University, take precedence before all other members of University except the Vice Chancellor when acting as Chairman of Convocation or the Deputy Vice-Chancellor when so acting. The Pro-Chancellor shall, when he is present, be the Chairman of all Meetings of the Council.

4. If it appears to the Visitor after consultation with the Council that the Pro-Chancellor should be removed from office on grounds of misconduct or of inability to perform the functions of his office, the Visitor may by written notice remove the Pro-Chancellor from office; provided that if the proposed removal from office is solely or partly on grounds of misconduct, the Pro-Chancellor shall be given an opportunity of making representation through the Council to the Visitor with respect to the allegations made against him for the purpose of enabling the Visitor to give him a fair hearing in the matter.

(c) VICE–CHANCELLOR
1. There shall be a Vice-Chancellor of the University who must be a Professor and be the chief academic and executive officer of the University and ex-officio Chairman of the Senate, and who shall in the absence of the Chancellor confer degrees and other academic titles and distinctions of the University.

2. The Vice-Chancellor shall be appointed by the Chancellor acting after consultation with the Council and Senate.

3. If it appears to the Visitor after consultation with the Council that the Vice-Chancellor should be removed from office on grounds of misconduct or of inability to perform the functions of his office, the Chancellor may by notice in writing remove the Vice-Chancellor from office provided that if the proposed removal from office is solely or partly on grounds of misconduct, the Vice-Chancellor shall be given an opportunity of making representation through the Council to the Chancellor with respect to the allegations made against him for the purpose of enabling the Chancellor give him a fair hearing in the matter.

4. In accordance with the provisions of this law, the Vice-Chancellor shall hold office for a period of 4 years, subject to renewal for another term of 3 years and on such terms as to the emoluments of his office as may be specified in his instrument of appointment.

(d) THE DEPUTY VICE-CHANCELLOR

1. There shall be a Deputy Vice-Chancellor who shall be a professor in the University who shall assist the Vice-Chancellor in his duties and shall act in the place of the Vice-Chancellor when the Vice-Chancellor is, for any reason, absent or otherwise unable to perform his functions as Vice-Chancellor.

2. The Deputy Vice-Chancellor shall be appointed by Council on the recommendation of the Vice-Chancellor after consultation with the Senate.

3. Subject to the provision of this law, the Deputy Vice-Chancellor shall hold office for a period of two years; beginning with the effective date of his appointment and on such terms as may be specified in his instrument of appointment.

4. The Deputy Vice-Chancellor shall be eligible for re-appointment for a second consecutive term of two years, but shall thereafter not be eligible for further appointment until two years have elapsed following the end of the second term.

(e) THE REGISTRAR

1. There shall be a Registrar who shall be the Chief Administrative Officer of the University and shall be responsible to the Vice-Chancellor for the day-to-day administrative work of the University.

2. The person holding the office of Registrar shall, by virtue of that office, be otherwise Secretary to the Board of Regents, unless specified, the Governing Council, the Senate, the Congregation and the Convocation.

3. The Registrar shall be appointed by Council on the recommendation of a Selection Board which shall consist of:
   (i) the Pro-Chancellor, presiding
   (ii) the Vice-Chancellor
   (iii) four members appointed by the Council, not being members of the Senate;
   (iv) two members appointed by the Senate

4. The Registrar shall hold office till the existing approved retiring age (of 60 years).
(f) **THE BURSAR**
1. There shall be a Bursar, who shall be the Chief Financial Officer of the University and shall be responsible to the Vice-Chancellor for the day-to-day administration and control of the financial affairs of the University.

2. The Bursar shall be appointed by Council on the recommendation of all Selection Board and shall hold office till the existing approved retiring age (of 60 years).

(g) **THE UNIVERSITY LIBRARIAN**
1. There shall be a University Librarian who shall be responsible to the Vice-Chancellor for the administration and co-ordination of library services of the University.

2. The University Librarian shall be appointed in the same manner as academic staff of the University and shall hold office till the existing approved retiring age (of 65 years).

10 **CONSTITUENT BODIES AND THEIR FUNCTIONS**

10.01 **THE BOARD OF REGENTS**
The Board of Regents shall be the Trustees of the University

10.02 **MEMBERSHIP**
(a) The membership of the Board of Regents shall consist of:
   (i) The President, who shall be the Chairman of the Board
   (ii) Not more than seven other persons drawn from a variety of interests and experiences.

(b) Unless determined otherwise by the Board, the Registrar shall be the Secretary to the Board.

(c) Whenever it thinks it fit so to do, the Board may co-opt additional individuals who have specialized knowledge of one or more of the subjects to be considered at meetings of the Board, but such co-opted individuals shall not be entitled to vote.

(d) The initial members of the Board shall be appointed by the subscribers to the Memorandum and Articles of Association, thereafter, vacancies may be filled on the authority, or at the discretion, of the President.

(e) A member of the Board, not being an ex-officio member, may by notice in writing to the President, resign his membership thereof. A person may be removed from membership of the Board by notice in writing addressed to him by or on the authority of the President.

10.03 **POWERS OF THE BOARD**
Without prejudice to the generality of the provisions of paragraph 2 of these Articles, the Board shall have the powers and overall responsibilities to:

(a) acquire land or other forms of property for the use of the University, and appoint in the first instance the initial Principal Officers of the University as, in its opinion, are necessary for the proper conduct of the business of the University, and determine the salaries and the conditions of service of such persons;

(b) subject to the provisions of the Memorandum and Articles of Association and these Articles determine and schedule its own meetings, regulate its own proceedings, and manage and superintend the affairs of the University;

(c) make statutes that will underpin the structure, institutions, and mode of governance of the University under the umbrella of the Governing Council and shall be divorced from the day-to-day management of the University and ensure its academic freedom;

(d) assure adequate financial sourcing and endowments for the University;
(e) appoint and determine the terms and conditions of appointment of the Chairman and other members of the Governing Council of the University;
(f) receive and ratify the annual Budget/Estimates of Income and Expenditure of the University including medium and long term development proposals, to be prepared and submitted to it by the Governing Council, or such other person as may on an interim basis, be designated or commissioned for the purpose;
(g) receive for the Governing Council, Annual Reports of the over-all activities of the University (academic and non-academic) including Audited accounts;
(h) render statutory returns to relevant authorities as they affect the University;
(i) deal with any other matters that may fall within the purview and responsibilities of the Board;
(j) make bye-laws for the operations of the University and such shall not be repugnant to the Memorandum and Articles of Association.

10.04 POWERS AS TO BYE-LAWS
The Board shall have power to make, alter or revoke Bye-Laws for carrying on the business of the University, provided always that such Bye-Laws shall not be repugnant to the Memorandum and Articles of Association.

10.05 COMMITTEES
The Board may appoint standing committees as it deems necessary for its work to deal with general and special matters.

10.06 MEETINGS
(i) The Board shall meet at least once every six months.
(ii) Meetings of the Board may be convened at any time by or on the authority of the President or the authority of a two-third majority of members of the Board giving seven days notice in writing except in the case of emergency, to all members.
(iii) All acts done in good faith by any meeting of the Board shall, notwithstanding that some defects be afterward discovered in the appointment or qualification of any member, or in the notices calling the meeting, be valid and effectual as if those defects had not existed.
(iv) Vacancies or defects in membership of the Board shall not invalidate the actions of the Board or any meetings of the Board.
(v) The quorum for a meeting of the Board shall be three (3) or one-third of total membership whichever is less. No business shall be transacted at any meeting of the Board unless such a quorum be present at the commencement of business. In the absence of quorum the meeting shall stand adjourned until the same day in the following week at the same time and place; and if at such adjourned meeting a quorum ‘is not obtained those members who are present shall form a quorum and may transact business provided that if the said meeting was originally convened not at the instance of the President but that of a two-third majority of members, any adjourned meeting at which no quorum is obtained shall stand dissolved.
(vi) The President shall preside at all meetings of the Board at which he is present, and in his absence the meetings shall be competent to elect one of its members to preside at the meeting.
(vii) All questions put to the vote at a meeting of the Board shall be decided by show of hands, unless a poll is demanded by at least half of the members present, in which case the secret poll shall be taken at such time and in such manner as the presiding Chairman of the meeting shall direct, and the decision of the secret poll shall be deemed to be the decision of the meeting at which the poll was demanded.
(viii) The Chairman may, and shall if so resolved by those present, adjourn a meeting from time to time and from place to place, but no business shall be transacted at such adjourned meeting other than that left unfinished at the meeting from which the adjournment took place. Whenever a meeting is adjourned for seven days or more notice shall be given of the adjourned meeting in the
same way, as to length of notice, as notice of an original meeting.

11. THE GOVERNING COUNCIL
The Governing Council of the University shall be responsible for the determination of the policies, the development and governance of the University subject only to any general directives that may be given by the Board of Regents. The powers of the Governing Council shall be such as may be laid down in the Statutes of the University and promulgated by the Board of Regents. In all dealings of the Governing Council, and other organs of the University, the Governing Council shall ensure strict adherence to the national guidelines and standards as may be laid down by the National Universities Commission (NUC) from time to time.

11.01 MEMBERSHIP
The membership of the Governing Council shall be:
(i) The Chairman (who shall be the Pro-Chancellor of the University)
(ii) The Vice-Chancellor
(iii) The Deputy Vice-Chancellor
(iv) Six persons representing a variety of interests appointed from outside the University
(v) One representative of the, National Universities Commission (NUC)
(vi) Two representatives of Senate
(vii) Two members of the Board of Regents
(viii) One representative of Convocation
(ix) One representative of Congregation

MEETING
The Registrar shall be Secretary of Council:
(i) In the absence of the Chairman at the meeting of Council, members shall elect one of its members to be the Chairman of the meeting.
(ii) Quorum: The quorum for a meeting of the council shall be 8.

11.02 POWERS OF THE COUNCIL
Subject to the Law and Statutes, the Council shall in addition to all other powers vested in it have the following powers:

(i) on the recommendation of the Senate, to authorize the establishment of academic posts in the University and similarly recommend, or suspend or abolish any academic posts created by these statutes or otherwise; provided that any such abolition shall not affect the protection afforded by the section on the removal of officers and members;
(ii) to authorize the establishment of non-academic posts in the University and to suspend or abolish any non-academic posts created by these statutes or otherwise; provided that any such abolition shall not affect the protection afforded by the section on the removal of officers and members;
(iii) to determine the conditions of appointment and service of all staff;
(iv) to appoint from time to time such officers whether paid or honorary and such other employees of the University as may be deemed necessary for the efficient functioning of the University (not being officers to be appointed by Senate under section 19 of these statutes);
(v) to delegate to the Vice-Chancellor the power to appoint any officer or employee not being an officer or class of officers to be appointed by Senate as aforesaid;
(vi) to review the work of the University and subject to the powers of the Senate, to take such steps as it thinks proper for the purpose of advancing the University;
(vii) govern, manage and regulate The finances, property and business affairs of the University and for that purpose to appoint bankers and any other office or agents whom it may deem expedient
to appoint, provided that before determining the question of finance which directly affects the academic policy of the University, the council shall take, into consideration that recommendation of the Senate;

(viii) to invest any money belonging to or held by the University in such stocks, bonds, shares or securities as the Council shall from time to time think fit, here in Nigeria or abroad, provided that in the case of moneys held by the University as trustees, the powers conferred by this paragraph shall be exercised in accordance with the provision of the law relating to investment by the Board of Regents;

(ix) to sell, buy, exchange, lease and accept leases of any real or personal property on behalf of the University;

(x) to provide, manage and maintain the buildings, premises, furniture and equipment and other means needed for carrying on the work of the University;

(xi) on the recommendation of the Senate, to authorize the establishment of Faculties, Institutes, Schools, Departments, Boards and like bodies;

(xii) to make provision for the welfare of students;

(xiii) to borrow money on behalf of the University and for that purpose if the Council thinks fit, to mortgage or change all or any of the property of the University whether real or personal and to give such other security as the Council shall think fit;

(xiv) to enter into, carry out, vary and cancel contracts on behalf of the University;

(xv) to give guarantees to building societies whether in pursuance of continuing arrangements or not;

(xvi) to make such provision as the council may from time to time consider fit for the welfare of all persons in the employment of the University, including the maintenance of a contributory pension scheme;

(xvii) to institute and award, on the recommendation of the Senate, Fellowships, Scholarships, Studentships, Bursaries, Prizes and other aids for study and research;

(xviii) to accept any property, legacy, endowment, bequest or gift for purposes of education or research or otherwise in furtherance of the work and welfare of the University, and to invest any funds representing the same in accordance with the provision of the charter and these statutes;

(xix) to select in consultation with the Senate a seal and Mace for the University and to have sole custody and use of the seal;

(xx) to make Statutes, Rules and Regulations;

(xxi) to accept, reject or refer any recommendations made by the Senate, provided that no such recommendation may be rejected or referred back without reasons and is given an opportunity to comment thereon to the council;

(xxii) generally to exercise all such powers as are or may be conferred on the Council by the Charter and these Statutes, including the power to make regulations in the exercise of all the powers expressly set out in this statute and of all other powers vested in the Council and to carry the Charter, the Statutes and the Rules and Regulations into effect;

(xxiii) to submit an Annual Report embodying the activities and Finances of the University to the Board of Regents.

(xxiv) render statutory returns to relevant authorities as they affect the University.

JOINT MEETING OF BOARD OF REGENTS AND COUNCIL
The Board of Regents and Council shall meet twice a year at the instance of the chairman of the Board of Regents, to assess progress made.

Two Joint Committees of Board of Regents and Council should be set up for a smoother running and systematic development of the University, viz:
(i) Development Committee to discuss and approve all physical structures and the status of all academic programmes including the introduction of new ones.
(ii) Estimates Committee to see to the generation of income and other resources, allocation of funds, award of contracts and general supervision of expenditures.

12. THE SENATE
The Senate shall consist of the following:

(i) The Vice-Chancellor as Chairman.
(ii) The Deputy Vice-Chancellor.
(iii) The Deans including the Dean of Student Affairs.
(iv) All Professors for the time being. (But with the increase in the number of Professors, not more than three Professors elected from each College to a maximum of 20 Professors).
(v) HOD’s of Academic Departments.
(vi) Two members of congregation, elected by Congregation.
(vii) Two nominated non-university members of appropriate qualifications appointed by the Vice-Chancellor in consultation with the Senate.
(viii) The University Librarian.
(ix) Bursar, Director of Works & Director of Academic Planning (in attendance).
(x) The Registrar shall serve as secretary
(xi) Quorum: Shall be two-thirds of the membership.

12.01 POWERS OF THE SENATE
The Senate shall, subject to the Charter and these Statutes, in addition to all other powers vested in it, have the following powers:

1. To regulate and control, after considering the views of the Colleges concerned, all teaching, courses of study and research and the conditions qualifying for admission into the various titles, degrees and other distinctions of the University.
2. To promote research and to require reports on such research.
3. To elect members of the senate to be members of the council as provided in section 16 of these statutes.
4. Without prejudice to section 17(5)(6) to recommend appointment of all academic staff in accordance with the rules approved by the council and to notify the council about the appointments.
5. To make a report to the council on the appointment of Deans of Colleges. Such appointment shall be based on the election of the College Board concerned subject to the right of the Senate to refer back any nomination.
6. To recommend to the Council the establishment, suspension or abolition of academic posts in the university.
7. To make recommendations to the Council about Rules and Regulations concerning academic matters.
8. To prescribe the conditions under which persons may be admitted to the University as students to decline admission without assigning any reason, and to delegate the powers to officers or a committee as the Senate may deem fit. To regulate all University examinations and to appoint examiners provided that there shall be at least one external and independent examiner appointed by the senate for the final examinations prescribed for any degree.
9. To award degrees and other academic distinctions to persons who shall have pursued a University or have otherwise satisfied the conditions laid down in the Regulations; and on what the Senate shall deem good cause, to deprive persons of any degrees or other academic
distinctions awarded by the University, and to revoke any diplomas or certificates granted by the University.

10. To award Diplomas, Licences or Certificates to persons who have completed a course of study approved by the Senate.

11. To recommend to the Council, subject to the procedure prescribed by Statute, the names or persons for the award of Honorary Degrees, or other University distinctions.

12. To accept such examinations and periods of study at such examinations and periods of study in the University as the Senate may determine.

13. To determine what formalities shall attach to the conferment of degrees and other distinctions.

14. To regulate the use of academic dress.

15. To be responsible for the general administration of the University Library

16. To recommend to the Council the institution and acceptance of Fellowships, Scholarships, Studentships, Bursaries, Prizes and other such aids to study and research.

17. To promote and regulate linkages and the extra-mural work of the University.

18. To make recommendations to the Council on any matter of interest to the University.

19. To regulate and superintend the discipline of the students of the University, and after a report from the Vice-Chancellor and subject to section 25 of these statutes, to suspend any student from class or classes, to exclude any student from any part of the University or its precinct, to expel any student from the University, or take such action as the Senate thinks proper and to determine in what manner disciplinary powers shall be exercised. The Senate may delegate to the Vice-Chancellor the power to suspend or exclude any student until the next meeting of the Senate when the Vice-Chancellor shall report to the Senate.

20. To take such steps as it thinks proper for supervising organizations of students.

21. To regulate and supervise the living conditions and social, cultural and leisure facilities of the students of the University and to make recommendations to the Council regarding the provision of residences and such other facilities for students.

22. Except as otherwise provided, to appoint representatives of the University to other bodies.

23. To recommend to the Council the establishment of Colleges, Institutes, Schools, Departments, Sections, Boards and such other bodies as the Senate may from time to time consider advantageous for the work of the University.

24. Generally to exercise all such powers as are or may be conferred on the Senate by the Charter and these Statutes and to make Regulations in the exercise of the powers herein before expressly set out in the section of these statutes and of all other powers of the Senate.

25. To regulate the conduct of examinations and judge all cases of examination irregularities.

13. CONVOCATION

1. The Convocation shall consist of the following persons, namely:
   (i) Officers of the University: The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Deputy Vice-Chancellor, the Registrar, the University Librarian, the Bursar.
   (ii) All full time Academic staff of the University.
   (iii) The members of the Council.
   (iv) All honorary graduates of the University
   (v) The Graduate of the University who apply for registration of their names in the prescribed manner and pay the prescribed fees.
   (vi) Such other members of the University or other persons as may on the recommendation of the Senate be invited by the Council.
   (vii) The quorum for convocation shall be one-third of the whole number nearest to one-third of the total in number of members of the convocation whichever is less.

2. Regulations shall provide for the establishment and maintenance of a register for the purpose of paragraph (iv) above and subject to the provision of the next succeeding paragraph, such
regulation may provide for the payment from time to time of further fees by persons whose
names are on the register and also for the removal from the register of the name of any person
who fails to pay such fees.

3. The person responsible for maintaining the register, shall, without demanding the payment of any
fees, ensure that the names of all persons who are for the time being members of Convocation by
virtue of sub-paragraphs (i), (ii), (iii), (iv), (v), of this section are entered and retained in the
register.

4. The register shall, unless the contrary is proved, be sufficient evidence that any person named
therein is, and that any person not named therein is not, a member of convocation, but for the
purpose of ascertaining whether a particular person was such a member on a particular date, any
entries in and deletion from the register made on or after that date shall be disregarded.

5. The Chancellor shall when he is present, preside at all meetings of convocation, and in his
absence, the Vice-Chancellor shall preside.

14. CONGREGATION
1. The Congregation shall consist of:
   (i) The Vice-Chancellor and Deputy Vice-Chancellor(s)
   (ii) All full time academic staff of the University
   (iii) The Registrar, Bursar and University Librarian
   (iv) All graduate staff of the University

2. The Vice-Chancellor shall be the Chairman of all meetings of Congregation when he is present,
and in his absence, the Deputy Vice-Chancellor and in his absence, such other member the
Congregation may appoint for that meeting shall be the Chairman at the meeting.

3. Subject to the provisions of the charter and these statutes, congregation may regulate its own
proceedings.

4. The quorum of the congregation shall be one third (or the whole number nearest to one third) of
the total number of members of the congregation or fifty, whichever is less.

5. Congregation shall have powers to discuss any matter relating to the general welfare of the
University.

15. COLLEGE BOARDS
1. Each College shall establish a College Board, whose membership shall consist of all the full time
members of the Academic staff of the College and such other persons as may be approved by the
Senate on the recommendation of the College. The powers and duties of the College Boards shall
be as approved by the Senate on the recommendation of the College concerned. These powers
shall include the right to discuss any matters relating to the work of the College and any matter
referred to it by any other body within the University and to convey its views and to make
recommendation thereon.

2. The Senate shall prescribe which subjects of study, departments and other bodies shall belong to
each college. A subject of study may, as the Senate so directs, belong to more than one College.

3. Subject to the Charter and these Statutes, each College shall be responsible for the organization
and conduct of courses and the promotion of research within the subjects taught in the College or
other responsibilities allotted to it by the Senate.

16. THE STUDENT UNION
Student Union, its powers and functions and all other matters which may be thought proper so to
regulate its activity shall be as prescribed in the Rules and Regulations governing Studentship in the
University.

ACADEMIC STRUCTURE OF THE UNIVERSITY
The Senate chaired by the Vice-Chancellor, decides on all academic matters, regulations and superintends students’ discipline.

The College Academic Board chaired by the Provost (College of Health Science) and Deans of the other respective Colleges and Schools consist of all full time teaching members of staff with the College Officer, as the secretary, processes academic and student matters at the College/School level.

17. APPOINTMENT OF EXAMINERS
(a) For all University examinations, there shall be Internal Examiners for each level of examinations.

(b) Internal Examiners
   (i) There shall normally be no fewer than two Internal Examiners for each level of Examination.
   (ii) There shall be one Chief Examiner to be appointed by Senate for each department who shall be the Head of Department. He shall be responsible for collection, collation and harmonization of all the segments of course examinations.

(c) External Examiners
   (i) External Examiners shall be appointed to each department annually by Senate on the recommendation of the College Boards.
   (ii) An External Examiner shall be a distinguished scholar in his field of competence and shall not have been a teacher in or full time member of the University during two academic years immediately preceding the date of his appointment.
   (iii) An External Examiner may not be re-appointed for more than 3 consecutive years.

18. COMPOSITION OF DEPARTMENTAL BOARD OF EXAMINERS
This shall consist of all members of academic staff of the department during the session under the chairmanship of the Head of Department. For 400 level examination, 2nd MB and subsequent professional examinations, the department board of examiners shall consist of internal examiners as well as the external examiners in the department.

19. COMPOSITION OF THE COLLEGE BOARD OF EXAMINERS
The Board of Examiners shall consist of:
(i) The Dean of the College as Chairman
(ii) Members of the College Board
(iii) External Examiner(s) when 400 level or professional examinations are under review.

20. DUTIES OF THE UNIVERSITY EXAMINERS
(a) The Internal Examiner shall:
   (i) set and mark the examination papers;
   (ii) normally attend the first ten minutes of the examination that he has set;
   (iii) conduct practical examinations, practical test or oral examinations;
   (iv) collect the answer scripts from the registry within 4 hours after the completion of the examinations;
   (v) participate in the determination of examination results through the appropriate Board of
Examiners.

(b) The External Examiner shall:
(i) moderate the relevant examination papers and certify them as having been moderated by him;
(ii) moderate the examinations as conducted in the subject area for which he is appointed examiner;
(iii) conduct oral examinations and where possible conduct or take part in practical examinations and practical teaching tests;
(iv) participate in the determination of degree results and certify the pass list in all 400 level examinations examined by him;
(v) submit a confidential report on the general nature and outcome of the examination to the Vice-Chancellor.

21. DUTIES OF DEPARTMENTAL BOARD OF EXAMINERS
(i) approve question papers submitted to Heads of Departments by internal examiners and in the case of 400 level examinations draft questions as moderated by external examiners;
(ii) prepare pass and failure list and forward them to College Board of Examiners;
(iii) make recommendations about the award of Aegrotat Degree to the College Board;
(iv) carry out other activities as may be prescribed by the College Board.

22. DUTIES OF THE COLLEGE
The Board shall:
(i) arrange for the printing and safe keeping of examination papers; compile and publish a time table for all College examinations at least four weeks to the commencement of the examinations;
(ii) publish names of invigilator for the College;
(iii) prepare pass, referral and failure list and submit to senate for approval;
(iv) inform Senate of any observation as requested for approval;
(v) arrange for publication of examination result provided that where it is necessary to publish provisional results which are subject to Senate approval, this should be clearly stated;
(vi) consider complaints about examination results from students, provided such complaints are received within one month of the publication of results by the Registrar.

23. EXAMINATIONS
The Senate shall:
(i) consider and ratify examination regulations;
(ii) approve appointment of external examiners;
(iii) consider and ratify result lists of all University examinations.

24. Marked scripts and mark sheets shall be kept securely in each College for four years after an examination and may thereafter be destroyed. No person or organization outside of the College except an External Examiner may have access to any marked script.

25. NOTIFICATION OF EXAMINATION RESULTS
After Senate has approved the results of examinations, the candidates shall be notified of the results by whatever method that shall be prescribed from time to time by the University.

26. DUTIES OF THE REGISTRAR
The Registrar shall:
(i) compile and publish, after matriculation, a list of registered students arranged serially by matriculation number and by course for which they register. Such lists shall also be sent to the Colleges;
(ii) determine the eligibility of candidates for all examinations, a consequence of payment of all relevant fees;
(iii) compile and publish a draft time table for all University examinations at least not later than two weeks before the commencement of the examination;
(iv) compile and publish examination results as soon as possible after their ratification by Senate.

COLLEGE OF ARTS AND SOCIAL SCIENCES
DEPARTMENT OF ECONOMICS AND DEVELOPMENT STUDIES
COLLEGE OF ARTS AND SOCIAL SCIENCES

HISTORY, PHILOSOPHY, MISSION AND OBJECTIVES OF THE DEGREE PROGRAMME
HISTORY OF THE PROGRAMME:
The department of Economics and Development Studies was one of departments created in 1999 at the inception of Igbinedion University Okada.

The curriculum for the department was prepared through the combined efforts of eminent professors in Economics engaged as consultants and pioneer staff of the department. Since 1999 the curriculum has been implemented to achieve the goal of graduating sound Economists with Bachelor of Science degree in Economics and Development Studies in line with the philosophy and objectives of establishing the Department.

PHILOSOPHY AND MISSION:
The philosophy and mission statement underlying the Economics and Development studies programme of Igbinedion University Okada is to produce graduates equipped with critical skills and abilities to: abstract using simplified models that identify the essence of a problem; analyse and reason both deductively and inductively; Marshall evidence, assimilate structure and analyse qualitative and quantitative data; communicate concisely the results to a wide audience, including those with no training in Economics; think critically about the limits of one’s analysis in a broader socio-economic context; and draw economic policy inferences and to recognize the potential constraints in their implementation.

OBJECTIVES OF THE DEGREE PROGRAMME
❖ Provide training in the principles of economics and their application appropriate to the type of degree concerned: single, joint and combined studies;
❖ Stimulate students intellectually through the study of economics and to lead them to appreciate its application to a range of problems and its relevance in a variety of contexts;
❖ Provide a firm foundation of knowledge about the workings of an economy and to develop the relevant skills for the constructive use of that knowledge in a range of settings;
❖ Develop in students the ability to apply the analytical tools, knowledge and skills acquired to solution of societies’ economic problems,
❖ Equip students with appropriate tools of analyses to tackle issues and problems of economic policies;
❖ Develop in students, through the study of economics, a range of transferable skills that will be of value in employment and self-employment;
❖ Provide students with analytical skills and the ability to develop simplified frameworks for studying the real world;
❖ Provide students with the knowledge and skill base, from which they can proceed to further studies in Economics, related areas or in interdisciplinary areas that involve Economics; and
❖ Generate in students an appreciation of the economic dimensions of wider social and political issues.

UNDERGRADUATE CURRICULUM:
Specific Objectives: A major aim of the department is to offer a sound educational preparation in Economics and Development Studies to all students enrolled in the department and gives them a firm foundation for effective participation in the society of man in general and Nigeria in particular as Economists, Bankers, Financiers, Administrators, Academics, Management Executives and allied professionals. To this end the department offers academic programme leading to the award of Bachelor of Science Degree in Economics and Development Studies.

ADMISSION REQUIREMENTS:
The admission of students into the four year B.Sc degree in Economics and Development Studies is conditioned on a student attaining a minimum qualification of five credit passes at GCE/SSCE/NECO examination and must University Matriculation Examination and further pass the screening test conducted by Igbinedion University, Okada.

For direct entry admission into the second year of the degree programme, such students shall have passed in at least two subjects at the advanced level in GCE in Economics, Accounting, or Business Administration and additional subsidiary subjects; or obtained at least lower credit in NCE Mathematics and Economics or National Diploma in Business Administration/Management or Accounting or Banking and Finance plus five credit passes at the GCE/SSCE.

MATRICULATION AND REGISTRATION
At matriculation, all new students swear to the matriculation oath and are formally admitted into the university. A student shall be deemed to have registered for the programme of study if within the prescribed period at the beginning of the session he has completed listing and authenticating the relevant courses to be taught for the semesters of the academic session or year in the department and other allied departments where necessary using the prescribed forms.

At registration, student must first seek the advice of their head of department or academic advisers regarding the choice of courses for the programme of study in order to avoid changes after registration.

CONTINUOUS ASSESSMENT:
Continuous assessment is regarded as part of the course work and examination but marks scored through continuous assessment shall not exceed 30% of the full marks for the course. It consists of classroom quiz, take home assignment, seminar, term paper and tests. Attendance at all lectures for the courses registered is compulsory and marks shall be awarded for attendance and forms part of the score of continuous assessment.

GRADUATION REQUIREMENT
A minimum of 154 credits are required in the four-year degree programme, and 128 credits in the three-year degree programme. This works out as at least 76 courses (including General Studies Courses) for the four years and 63 courses for 3 years sessions. Students enrolled in the department are required to select 100 and 200 level courses from the department and other departments in the college and allied Colleges in the University.

The 300 and 400 level courses are taken entirely within the department along with submission of a supervised research project.

To earn a degree, all registered compulsory courses must be taken and passed. In addition, the required elective courses chosen will be learnt and passed by the students at the end of each semester. The candidates will be credited with the results grade point times the number of units assigned to the course which they have passed.

Subsequently, the total number of units taken with the grade points earned in the courses shall be recorded for the purpose of computing the cumulative grade point average CGPA required for determining the class of degree achieved by the student at the end of the programme.

CALCULATION OF GPA AND CGPA
Results for courses are reported in figure score and letter grades ranging from A to 5 and weighted 6 to 0 respectively. Each course has a credit unit ranging from 1 to 4. Each course result has a total quality point which is the product of the grade point and the credit unit.
For instance, if a student earns a ‘A’ in a particular 2 credits unit course, his/her total quality points will 5 x 2 = 10.

A student who registers for 6 courses in a semester each of which has a credit unit of 2 will have a total registered credit units of 6 x 2 = 12.

The Grade Point Average – GPA – is the sum of the individual total quality points divided by the total credits for the semester or session.

The Cumulative Grade Point Average CGPA is the sum of the total quality points of courses earned for all the years of study divided by the grand total of credit units registered for all the years of study to date.

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### DEPARTMENTAL BOARD OF STUDIES

Composition
Head of Department (Chairman)
All academic staff of the Department
Secretary – Departmental Secretary

**Terms of Reference**

1. Handle all departmental issues such as time-tabling; co-ordination of activities of the department; evaluation of departmental tests and examination; review of course contents and syllabus; student discipline;

2. To report to the College Board on all matters pertaining to the University with respect to staff and students.

### LIST OF COURSES AND COURSE DESCRIPTION

The list of courses in the curriculum of the department and the course description are presented in the subsequent section.

### LIST OF COURSES IN LINE WITH NUC-BMAS

#### 100 LEVEL – FIRST SEMESTER

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<td>GST 112</td>
<td>Logic Philosophy &amp; Human Existence</td>
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2nd Semester Sub Total Credit Units  **18**

SESSIONAL TOTAL CREDIT UNITS  **38**

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**200 LEVEL – FIRST SEMESTER**

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2nd Semester Sub Total Credit Units 22

SESSIONAL TOTAL CREDIT UNITS 42

### 300 LEVEL- FIRST SEMESTER

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<td>Eco 317</td>
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1st Semester Sub Total Credit Units 22

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<td>Comparative Economic Systems</td>
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**SUMMARY OF TOTAL UNITS FOR THE 4 YEARS**

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<td>73 Units</td>
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**COMMENT:**
To graduate, a student must now have to complete and pass all courses with total credit units of 154 units for the four years degree programme in Economics and Development Studies above the minimum of 145 units prescribed in the NUC – BMAS document. While for the three years direct entry to 200 level programme total units to graduate for the new curriculum is 128 units.

The actual work load or absolute total number of courses carried by students for the four-year degree programme is 76 courses. This is parri passu with the direct entry to 200 level three-year degree programme with work load of 63 courses accordingly.

**COURSE DESCRIPTION**

**100 LEVEL (FIRST SEMESTER)**

**CORE/COMPULSORY COURSES**

**ECO 111: PRINCIPLES OF ECONOMICS 1 (MICRO) 2 Credits**
This course is an introduction to Microeconomic Theory. Topics covered included basic concept of scarcity, choice, opportunity cost, scale of preference, the methodology of Economics, Market Mechanism. Including demand, supply and prince determination; Theories of consumers behaviour, theory of production, theory of the firm, cost of production, pricing and output under perfect competition, monopoly, monopolistic competition and oligopoly etc.

**ECO 112: INTRODUCTION TO QUANTITATIVE METHODS 2 Credits**
The aim of this course is to introduce students at an elementary level to some of the mathematical techniques necessary for the analysis of economics. Topic includes elementary algebra such as real number system, indices, factorizing, logarithms, L.C.M and H.C.F. Polynomials, nominal etc. equations and inequalities, sets, functions, simultaneous equations; series and progression; permutation and combination; growth mathematics, logarithms; time rate of change, elementary trigonometry.
ECO 113: INTRODUCTION TO ECONOMIC HISTORY 2 Credits
This course helps to acquaint student with the history of human struggle. The course traces men’s economic experiences from the period of the Paleolithic and Neolithic ages, the river valleys, the Greek/Roman economics civilization, etc, to the modern day.

ELECTIVES
ACC 111: INTRODUCTION TO ACCOUNTING (2 Credits)
See course description under accounting Department
BUS 111: INTRODUCTION TO BUSINESS 1 (2 Credits)
See course description under Business Administration Department
Two electives from any other Department in the College - (2 Credits)
Minimum Total Credits 20
Beside GST

SECOND SEMESTER
ECO 121: PRINCIPLES OF ECONOMICS II (MACRO) 2 credits
This course is basically an introductory course on the Macro-economics aspect of economic theory. Topics covered include the subject matter of economics and basic economic problems; the methodology of economic science and the general principles of resource employment; money and banking; employment and unemployment; public finance including government budgets; international trade; balance of payments and economic growth and development.

ECO 122: INTRODUCTION TO QUANTITATIVE METHOD II 2 Credits
This is continuation of ECO 112 and it focuses on general statistical techniques. Topics covered include: origin and development of statistics, scope and limitation of statistics, frequency distribution, measures of central tendency and dispersion, skewness and kurtosis (including moments) probability theory, random variable and their probability distributions, mathematical expectations, price indices.

ELECTIVES
ACC 121: INTRODUCTION TO ACCOUNTING II – 2 CREDITS
See Course description under accounting Department
BUS 121: INTRODUCTION TO BUSINESS II: 2 CREDITS
See course description under Business Administration Department
Two electives from any other Department in the College - (2 credits)
Minimum Total Credits 18
Beside GST

200 LEVEL
FIRST SEMESTER
ECO 211: MICROECONOMICS THEORY 2 Credits
The course builds on the foundation students were exposed to in ECO111. Topics covered include: Theory of consumer behaviour; utility approach, Indifference curve approach, Topics in consumer demand; market structures, output and pricing under various market structures – perfect competition,
monopoly, monopolistic competition, oligopoly. Theory of distribution under perfect competition.
Input pricing and employment under imperfect competition.

ECO 213: PERSPECTIVES OF NIGERIAN ECONOMY 2 Credits
This primary objective of this course is to acquaint the students with the various stages in the evolution of Nigerian economy. It examines Nigerian economy before and after Independence. Topics covered include agriculture, industrialization, trade, transportation, national income, etc.

ECO 214: STATISTICS FOR ECONOMICS 2 Credits
The topics covered in this course include; the normal, binominal and poison distribution. Estimation theory, tests of statistical hypothesis including t, f and Chi-square test, analysis of least square method. Correlation and regression analysis, Elementary sampling theory and design of experiments, Nonparametric methods, Introduction to the Central Limit Theory (CLT) and the law of large numbers.

ECO 215: MATHEMATICS FOR ECONOMICS 1 2 Credits
This course exposes students to basic calculus necessary for analyzing and understanding many aspects of economic theory. Topics covered included the following” number system, exponents and roots, equations, simultaneous and quadratic equations, logarithms, functions of one variable, free optimization (Maxima and Minima) functions of several variables partial differentiation, integral calculus. All topics are to include relevant economic application.

ECO 218: LABOUR ECONOMICS
The course helps to acquaint the student with principles of economics in labour matters and to introduce the student to issues in industrial relations. Topics covered include: demand and supply of labour. Theories of labour movement, theories of collective bargaining, industrial democracy etc.

ELECTIVES

ACC 211: FINANCIAL ACCOUNTING 1 2 credits
See course description under Accounting Department

ECO 216: PRINCIPLE OF FINANCE – 2 credits
See course description under Banking and Finance Department

BUS 211 PRINCIPLE OF MANAGEMENT 1 2-Credits
See Course description under Business Administration Department
Total Credits 20

SECOND SEMESTER

ECO 222: MACROECONOMIC THEORY
This course builds on the foundation students were exposed to in ECO 121. It is primarily concerned with the study of relationships between broad economic aggregates. Topics include National income (accounting and determination) aggregates saving and consumer’s expenditure, investment, employment, money supply, price level, balance of payment. The course attempts to explain the determinants of the magnitude of these aggregates and their rates of change-overtime.

ECO 224: STATISTICS FOR ECONOMIC II
Students are further introduced to the basic concept of probability theory, probability distribution and inferential statistics. Topics include computation of expectation, the normal distribution, student’s t and chi-square and f distribution. Topics in inferential statistics include estimations and their properties, confidence interval and hypothesis testing, plus elementary regression.

**ECO 225  MATHEMATICS FOR ECONOMICS II**
This course is an extension of ECO 213. Topics include: calculus with emphasis given to functions of several variables, specific topic include total differentiation, for optimization of function of several variables and constrained optimization–method of substitution and Lagrange multipliers. The courses expose students to liner algebra-vectors direction, and magnitude of growth and matrices.

**ELECTIVES**
- **ACC 221**  FINANCIAL ACCOUNTING (2 credits)
  Course description is provided under Department of Accounting
- **ECO 226**  PRINCIPLE OF FINANCE (2 Credits)
  Course description is provided under Department of Banking and Finance
- **BUS 221**  Principles Management II (2 Credits)
  Course description is provided under Department of Business Administration
- **ECO 228**  LABOUR ECONOMICS (2 Credits)

**300 LEVEL: FIRST SEMESTER**

**ECO 311:  MICRO-ECONOMIC THEORY**
This course builds on the knowledge gained in ECO 211 for first semester. The focus her is on the use of quantitative methods in analyzing advanced micro-economic topics such as theory of demand, the theory of production, cost theory, price theory, managerial theories of the firm, the behaviour theory of the firm, the notion of surplus values and profits, general equilibrium theory and welfare economics with particular reference to Nigerian.

**ECO 320:  MONETARY THEORY AND POLICY**
This course helps to acquaint the students with the various theories of money and monetary policy instruments used in controlling or influencing the level of Demand, supply and the management of money in circulation in a domestic economy. Topics include; the role of money, the barter system and their effects. The demand and supply of money, techniques and instruments of monetary policies and their effectiveness.

**ECO 314:  INTRODUCTION TO ECONOMETRICS 1**
This is an introductory course on the techniques of regression analysis. Accordingly, it starts with the simple linear regression model, along with its estimation using the ordinary least squares, properties of the estimators (BLUE) including the Gauss- Markow theorem, significance test.

**ECO 316  DEVELOPMENT ECONOMICS 1**
This course exposes the student to the theory of economic growth and development. Determinants of economic growth and development are clearly covered. Theories and empirical studies on development experience both in developed and developing countries are considered.

**ECO 315:  PROJECT EVALUATION**
This course exposes the student to the tools of project appraisal and the difficulties faced within project evaluation. Topics covered include: this costing of project, investment criteria (PV and IRR) measure of commercial profitability, the social cost of investment, assessment of projects, desirability and success.
ECO 318: PUBLIC SECTOR ECONOMICS
This course focuses on effects of government expenditure and taxation. Topics covered include public vs. private sector, function of government, rational for government intervention in economics activities, government budget, the theory of public goods, Pareto optimality, externalities, the principles of maximum social gain/advantage, theory of social choice, partial and general equilibrium of private and public goods.

ECO 319: OPERATIONS RESEARCH
The objective of this course is to introduce the student to the principles, methods and uses of mathematics programming with particular emphasis in the formation and solution of linear programming problem. Topics include linear programming, the dual problem, sensitivity analysis, shadow pricing, integer programming. The transportation problem, network analysis, critical path analysis and decision trees.

SECOND SEMESTER
ECO 322: MACRO-ECONOMIC THEORY
This course focuses on the quantitative aspect of advanced macro-economic topics such as a savings, consumption and investment, national income models, the theory of money, classical and Keynesian system Macro-economic policy models. The theory of price level, internal and external balance and economic growth theory.

ECO 323: HISTORY OF ECONOMIC THOUGHT
This course exposes the students to the development of economic ideas. The systematic unfolding of economic ideas by different theorists in various epochs is evaluated. Topics include the evolution of societies and production relation. The founders of economic thought like Plato, Aristotle, commercial capitalism and genesis of classical schools, the mercantilism, physiocratic schools, the rise of socialist thought, monetary, mathematical, Keynesian, welfare and modern theories of growth and development economics are examined.

ECO 324: INTRODUCTION TO ECONOMETRICS II
This is logical extension of the first semester course on regression analysis. As such, it introduces the concept of simultaneous equation and their estimation. Essentially, this course examines the possible solutions to problems arising from the breakdown of the ordinary least squares assumptions. To this end, it covers topic like multi-co-linearity, heteroscedasticity, autocorrelation and measurement of specification error. It also examines the use of dummy variable and time-lags as independent variables.

ECO 326: DEVELOPMENT ECONOMICS II
This course builds on the foundation laid in ECO 314, but focuses on African Economics. Emphasis is placed on African Economic Institution, investment problems policies and strategies related to the economic development. Other specific issues covered include agriculture, industry, population, trade, income distribution etc in sub-saharan African.

ECO 325: RESEARCH METHODS
This essentially, is an introductory approach to economic research. Topics to be covered include: the scientific method as a basis for economic analysis, the formulation and testing of hypothesis and
-economic models, interpretation and presentation of empirical results, including their appraisal as well as comparison of different economic research methods.

**ECO 327: INTRODUCTION TO INTERNATIONAL ECONOMICS**
This course provides and introductory background to the major theories of trade and international finance for the next session. Topics covered includes: the classical and modern theories of trade, theory of tariffs and trade restriction, balance of payments, international institutions in trade and finance such as the IBRD IMF, OPEC IFC, etc. It also examines the basis of the New International Economic Order and its bearing on the Nigerian Economy.

**ECO 329: FINANCIAL INSTITUTIONS**
The course is aimed at exposing the students to financial institutions with particular reference to Nigeria. Topics covered include functions and organization of Commercial Bank, Merchant Banks, Universal Banks, Developing Banks, Central Bank, other financial intermediaries, international financial institution such as IMF, ADB, IBRD, WORLD BANK etc.

**400 LEVEL: FIRST SEMESTER**

**ECO 411: ADVANCED MICROECONOMICS**
This course places emphasis on the application of standard theories to practical problems. Topics covered include: supply and demand analysis, preference, consumption, equilibrium and exchange the firm and industry, factor market, distribution and Inter-temporal Analysis, factor market equilibrium, and income distribution.

**ECO 412/422: ADVANCED MACROECONOMICS**
**ADVANCED MACROECONOMICS THEORY**
The course builds on the foundation laid in year three. It deals with the study of the determinants of the level of growth. Topics covered include: Keynesian and classical models; income determination in closed and open economies; money, interest and prices; growth theory and optimal and economic policies under alternative exchange rate regimes.

**ECO 413: COMPARATIVE ECONOMICS SYSTEM**
This course evaluates the workings of different economic systems. Selected basic theoretical and conceptual issues comparison criteria, basic economic institution, centralization versus decentralization, and ideologies are examined. The basic economic models, capitalist market versus non-capitalist market, planned versus command economics are treated in-depth to embody the institutional arrangements in the contrast of the USA, UK, Japan, Netherlands, Indian and Nigeria. Finally, the economies of Russia, China, Yugoslavia, Hungary and Cuba are treated following a brief discussion of Marxian economics such that doctrinal issues in the development of the discipline particularly methodologies are treated in the context the contemporary economics systems and Nigeria.

**ECO 416: APPLIED STATISTICS**
The scheme of work involves a detailed treatment of some of the major topics earlier covered in the previous statistical courses. Topics to be treated include Time series analysis, Analysis of variance (ANOVA) and analysis of co-variance (NOCOVA), further index numbers, the place of probability in statistical analysis, multiple regression, design of experiment and sample surveys, and population theories, amongst others.

**ECO 417: PETROLEUM ECONOMICS**
This course is an introductory one meant to survey the major types of energy resources available, including petroleum, synthetic fuel, etc. Topics covered include; oil in international economic
relations, the New World Economic Order, New-colonialism, the multi-national oil companies, the structure and characteristics of the oil sector; others include the various types of energy sources as well as their respective place in the economic development of Nigeria.

ECO 419: APPLIED ECONOMETRICS
This course continues the previous session’s work on regression analysis. It examines the topics as simultaneous equation, single equation methods of estimation, indirect least squares, instrumental variable method, two stage least squares, full information maximum likelihood, as well as three stage least squares amongst others.

ECO 418: RESEARCH PROJECT FIRST/SECOND SEMESTER

SECOND SEMESTER
ECO 421: ADVANCED MACROECONOMICS THEORY
The course builds on the foundation laid in year three. It deals with the study of the determinants of the level of growth. Topics covered include: Keynesian and classical models; income determination in closed and open economies; money, interest and prices; growth theory and optimal and economic policies under alternative exchange rate regimes.

ECO 423: ECONOMIC PLANNING
The course focuses on theories of economic planning; attention is given to techniques and models of economic planning and their problems. Topics include: Input-Output Techniques, Social Accounting Matrix, General Equilibrium Models and Computable General Equilibrium Models etc.

ECO 415 & ECO425: TAXATION AND FISCAL POLICY
This course builds on the foundation student were exposed to in public sector economics. It is primarily concerned with the study of fiscal policies of governments and the role of Central Bank in their formulation and implication. How to use fiscal policy and taxation to achieve macroeconomic objective of price stability, growth, full employment and balance of payment equilibrium are examined. Other topics include: types of taxes, benefits of taxes, efficiency of taxes, incidence of taxes, theories of tax shifting, public expenditure and the management of public debt. Fiscal federalism.

ECO 429: INTERNATIONAL BANKING AND FINANCE
This course provides a sort of intermediate treatment of the principles of international finance. It covers such topics as the documents of international finance, international payments, foreign exchange market, balance of payment and its adjustment mechanisms, transfer movement, capital movements, international reserves, the international monetary system, Euro-dollar and the Euro-currency markets.

DEPARTMENT OF ECONOMICS AND DEVELOPMENT STUDIES
SENIOR STAFF LIST

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<tr>
<th>S/N</th>
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<tr>
<td>1.</td>
<td>Odejimi Deborah Omotsefe</td>
<td>Snr. Lecturer/HOD</td>
<td>Applied Statistics and Finance</td>
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<tr>
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<td>2.</td>
<td>Mercy Ada Anyiwe</td>
<td>Visiting Professor</td>
<td>Statistics and Macroeconomics</td>
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3. Emenuga Chidozie  
   B.Sc, M.Sc and PhD  
   Visiting Professor  
   Econometrics and Development Economics

4. Jerome Afeikhena  
   B.Sc, M.Sc and PhD  
   Visiting Professor  
   International Trade and Development Economics.

5. Ngozi Okonjo-Iweala  
   B.Sc, M.Sc and PhD  
   Visiting Professor  
   Finance and Development Economics

6. Ogbeifun M. Ilkpmwonsa  
   B.Sc, M.Sc, PhD (in view)  
   Lecturer I  
   Economic Development and Comparative economics

7. Agbonkhese Abraham Oni  
   B.Sc, M.Sc and PhD  
   Lecturer II  
   Econometrics and Microeconomics

8. Adekola A. Adetunji  
   B.Sc & M.Sc, MBA, PhD(in view)  
   Lecturer II  
   Agric. Economics and Macroeconomics

9. Ozor, P. Lilian  
   B.Sc and M.Sc and PhD(in view)  
   Graduate Assistant  
   Statistics/Tutorials

10. Odejimi Melody Omotsefe  
    B.Sc, M.Sc and PhD(in View)  
    Assistant Lecturer  
    Quantitative Techniques and Development Economics

11. Isikuemen Hillary Akome  
    B.Sc, M.Sc and PhD(in view)  
    Assistant Lecturer  
    Maths for Economists and Macroeconomics

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DEPARTMENT OF ENGLISH

SENIOR STAFF LIST

1. B.C. Onochie  
   B.A. (Ibadan), Ph.D. (Ibadan/Leeds)  
   Associate Professor

2. V.O. Okokor
DEGREE PROGRAMME IN ENGLISH
(Based on Benchmark Minimum Academic Standards)
Effective from 2010/2011 session.

DEGREE IN VIEW: B.A. (Honours) ENGLISH.

AIMS
i) To produce graduates who possess an informed literary and aesthetic sensibility and intellectual tools to appreciate any literary stimulus and event.
ii) To equip students with adequate knowledge of major landmarks in Literature in English in all genres and periods.
iii) To produce skilful and eloquent users of English for literary and artistic creativity.
iv) To impart a humanistic perspective to students by acquainting them with literature as an expression of lofty ideas and aspirations.
v) To train students to relate literary works and experiences to their social environment.

ADMISSION AND GRADUATION REQUIREMENTS
i) 5 credit level passes in the SSCE/NECO/GCE (O/L) in relevant subjects including English Language and Literature for the four years programme.
ii) 3 “A” level GCE passes including one in Literature and SSS level pass in English Language (three years programme).

DURATION AND UNIT VALUES OF THE COURSES
The full degree programme is to last four years. Candidates need a minimum of 120 credit units to qualify for award of degree. The courses may be rearranged semester wise within the same level/year provided the integrity of the whole programme is maintained.

EXAMINATIONS AND CONTINUOUS ASSESSMENT
Examinations are conducted at the end of each semester. Examination questions are set by lecturers in charge of each course but such questions are vetted by the departmental external examiner. Each lecturer assesses candidates’ scripts based on prepared rubric (marking scheme) already vetted by the Departmental Board. Examination scores constitute 75% of the total grade in each course.

CONTINUOUS ASSESSMENT
In addition to the general examinations, the department equally implements a strict routine of continuous assessment grading system. The continuous assessment is administered by course lecturers and takes place during the course of the semester. 25% of the total grade for each course is based on candidates’ performance in the continuous assessment test.

GRADUATION REQUIREMENTS
To qualify for the award of a Bachelor of Arts, English, a candidate shall:
(i) Have been duly admitted for the degree programme
(ii) Have been matriculated into the University
(iii) Have paid all required fee and debts
(iv) Have passed all compulsory courses and relevant degree programmes
(v) Have accumulated the minimum number of Credit units for the award of Bachelor of Arts, English.

CALCULATION OF GPA and CGPA

Grade Point (G.P.) is determined from the actual raw score in a given course. G.P. ranges from 0 to 5 covering scores of 0% to 100%.

Grade Point Average (G.P.A)
This is the average performance of the candidate for a semester expressed in grade points earned in the course. It is the Grade Point (G.P) attained in each course by the credit units assigned that course and then dividing the sum by the total credits taken for the semester.

Cumulative Grade Point Average (CGPA)
This is the up-to-date average of mean of the Grade Point (GP) earned by a student at any point in the programme i.e. the student’s overall performance at the given time. It is derived by multiplying the Grade Point by the respective credit units and then dividing the sum by the total of credit units for all the courses registered by the student.

CLASS OF DEGREE
The class of degree is determined by the overall C.G.P.A of each candidate as at the time of the completion of all the courses required by the department for the award of Bachelor of Arts degree.

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<th>CGPA</th>
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<td>Second Class, Lower Division</td>
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</table>

LEARNING OUTCOME
The tradition of liberal education is based on a concern with the whole man or woman, such that the acquisition of learning skills goes with a concomitant emphasis on character. Because of its concern with the complexities of human motivation and action, Literature has an in-built tendency to impart moral and spiritual lessons which make graduates of Literature so much more sensitive to, and empathic with, the plight of others, while developing a critical attitude to society. The problems of individuals and of society with which students of Literature empathise are often imaginatively or creatively projected in works of art (prose fiction, poetry or drama).

COMPETENCE AND SKILLS
- At the end of the course, graduates of Literature should be seen to have achieved greater competence and sophistication in all branches of Literature, in critical and creative expression, as well as a better understanding of Literature’s relevance to society. Literature being an elaborate instance of resources of language in all its rich complexity, students of Literature, at the end of the under-graduate programme, should have developed more sophisticated skills in writing as well as in speech, together with a greater insight into human nature, a more mature understanding of human relationships and a greater competence in giving creative expression to them.
Generically, Literature is a text-centred discipline. But at the end of the programme, students of literature should have been brought into contact with our local cultures, so that they can tap the vast repertoire of oral cultural practices for which our people are known, for creative and entrepreneurial purposes.

**BREAKDOWN OF COURSES**

**100 LEVEL**

**1ST SEMESTER**

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIT 111  Introduction to Literary Studies</td>
<td>2</td>
</tr>
<tr>
<td>LIT 112  Introduction to Fiction in English</td>
<td>2</td>
</tr>
<tr>
<td>LIT 113  Introduction to Poetry in English</td>
<td>2</td>
</tr>
<tr>
<td>ENG 114  Practical English Grammar</td>
<td>2</td>
</tr>
<tr>
<td>GST 111  Communication in English I</td>
<td>2</td>
</tr>
<tr>
<td>GST 112  Logic, Philosophy and Human Existence</td>
<td>2</td>
</tr>
<tr>
<td>GST 113  Nigerian Peoples and Culture</td>
<td>2</td>
</tr>
<tr>
<td>First Elective from French/Theatre Arts</td>
<td>2</td>
</tr>
<tr>
<td>Second Elective from French/Theatre Arts</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
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**2ND SEMESTER**

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS</th>
</tr>
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<tbody>
<tr>
<td>LIT 121  Origins of Nigerian Literature in English</td>
<td>2</td>
</tr>
<tr>
<td>LIT 122  Introduction to Nigerian Literature in English I</td>
<td>2</td>
</tr>
<tr>
<td>LIT 123  Introduction to Drama and Theatre in English</td>
<td>2</td>
</tr>
<tr>
<td>ENG 124  Spoken English</td>
<td>3</td>
</tr>
<tr>
<td>GST 121  Use of Library, Study Skills and ICT</td>
<td>2</td>
</tr>
<tr>
<td>GST 122  Communication in English II</td>
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<td>GST 123  Communication in French</td>
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**200 LEVEL**

**1ST SEMESTER**

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<tr>
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<tr>
<td>LIT 211  Survey of Epochs in Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>LIT 212  Introduction to English Poetry</td>
<td>3</td>
</tr>
<tr>
<td>LIT 213  The English Novel from the 18th Century to the Romantics</td>
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</tr>
<tr>
<td>LIT 214  History of Theatre: Aeschylus to Shakespeare</td>
<td>3</td>
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<tr>
<td>GST 211  History and Philosophy of Science</td>
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</tr>
<tr>
<td>ENG 215  Advanced English Composition I</td>
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<tr>
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<tr>
<td>EPS 211  Entrepreneurial Studies</td>
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### 2nd Semester

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>LIT 221</td>
<td>African Oral Literature in Translation</td>
</tr>
<tr>
<td>LIT 222</td>
<td>Literature, Popular Culture and the mass Media</td>
</tr>
<tr>
<td>LIT 223</td>
<td>The English Novel from the Victorians to the present</td>
</tr>
<tr>
<td>LIT 224</td>
<td>English Drama from Shakespeare to the present</td>
</tr>
<tr>
<td>ENG 225</td>
<td>Advanced English Composition II</td>
</tr>
<tr>
<td>GST 221</td>
<td>Peace Studies and Conflict Resolution</td>
</tr>
<tr>
<td>LIT 226</td>
<td>Modern Comedy- Moliere to Soyinka</td>
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### 300 Level

#### 1st Semester

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<tr>
<td>LIT 311</td>
<td>Nigerian Oral Literature in English Translation I</td>
</tr>
<tr>
<td>LIT 312</td>
<td>African Written Fiction</td>
</tr>
<tr>
<td>LIT 313</td>
<td>African Written Poetry</td>
</tr>
<tr>
<td>ENG 314</td>
<td>The English Language in Nigeria</td>
</tr>
<tr>
<td>CMP 311</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>EPS 311</td>
<td>Entrepreneurial Studies</td>
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#### 2nd Semester

<table>
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<tbody>
<tr>
<td>LIT 321</td>
<td>Nigeria Oral Literature in English Translation II</td>
</tr>
<tr>
<td>LIT 322</td>
<td>African Written Drama</td>
</tr>
<tr>
<td>LIT 323</td>
<td>English Poetry: Beginnings to Metaphysicals</td>
</tr>
<tr>
<td>ENG 324</td>
<td>Discourse Analysis</td>
</tr>
<tr>
<td>CMP 321</td>
<td>Application of Computers to Arts</td>
</tr>
<tr>
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### 400 Level

#### 1st Semester

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<tbody>
<tr>
<td>LIT 411</td>
<td>Literary Theory and Criticism</td>
</tr>
<tr>
<td>LIT 412</td>
<td>Commonwealth Literature</td>
</tr>
<tr>
<td>LIT 413</td>
<td>African-American and Caribbean Literature</td>
</tr>
<tr>
<td>LIT 414</td>
<td>English Poetry: 18th century to present</td>
</tr>
<tr>
<td>LIT 415</td>
<td>Research Methods</td>
</tr>
<tr>
<td>LIT 416</td>
<td>Special Author (Shakespeare)</td>
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### 2ND SEMESTER

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>LIT 421 Stylistics</td>
<td>3</td>
</tr>
<tr>
<td>LIT 422 Literature of Travel and Adventure</td>
<td>3</td>
</tr>
<tr>
<td>LIT 423 Folklore in African Literature</td>
<td>3</td>
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<tr>
<td>LIT 424 Workshop in Creative Writing</td>
<td>3</td>
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<td>LIT 499 Project</td>
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### COURSE DESCRIPTION

**LIT 111 Introduction to Literary Studies**
This is a general course to introduce students to fundamental elements of literary art, its aesthetic principles, genres, approaches to critical evaluation and appreciation and the interface of literature and allied arts.

**LIT 112 Introduction to Fiction in English**
This course will introduce students to the major forms of prose fiction, their characteristic features, and the major techniques employed by fiction writers.

**LIT 113 Introduction to Poetry in English**
An introductory course on the nature, form, and characteristics of poetry. Through selected poems, the student is guided to acquire the tools and techniques of literary analysis.

**ENG 114 Practical English Grammar**
This course practically explores the salient features of English grammatical structure. Particular attention will be paid to basic sentence phrase structures, clause types and inter-sentential relations, among others. The aim is to improve the students’ proficiency in English by indirectly highlighting their areas of difficulty and helping to sharpen their sense of grammatical correctness vis-à-vis communicative effectiveness.

**LIT 121 Origins of Nigerian Literature in English**
This course explores the origins of Nigerian literature in English. It focuses, in particular, on its oral background in poetry, prose and fiction. Early authors such as Amos Tutuola will be examined.

**LIT 122 Introduction to Nigerian Literature in English I**
This course introduces students to the major literary genres of Nigerian literature and the socio-political conditions that have influenced their development. Attention will also be drawn to the changes in scope and the preoccupations of the Nigerian artists involved over the years.

**LIT 123 Introduction to Drama and Theatre in English**
An introductory course on the nature, form and characteristics of drama and theatre. Students are guided to acquire the tools and techniques of drama analysis through selected plays.

**ENG 124 Spoken English**
A single semester course, this will concentrate on classroom and language laboratory exercises on conversational English, using relevant phonological materials [e.g. tapes, records, video films, etc] to enhance the students’ spoken English.

**LIT 211**  
Survey of Epochs in Literature in English  
This course is to introduce students to trends and periods in world literature written in English with emphasis on themes, socio-cultural background and use of language.

**LIT 212**  
Introduction to English Poetry  
A study of English poetry from the Romantics to the 20th century. Works of representative authors will be chosen to illustrate the various themes and stylistic nuances.

**LIT 213**  
The English Novel from the 18th Century to the Romantics  
A study of the development of the English novel with focus on major authors and the aesthetic features of their works. Focus will be on Defoe, Richardson, Fielding, the Gothicists, Jane Austen and Mary Shelley.

**LIT 214**  
History of Theatre: Aeschylus to Shakespeare  
A study of representative dramatic texts of dramatists from Aeschylus but excluding Shakespeare.

**ENG 215**  
Advanced English Composition I  
This course deals with more specialized composition writing than the essay, e.g Reports, Long Essays, Minutes of Meetings, Various types of letters, Invitations, Public Announcements, Speech Writing, writing feature articles, writing for magazines, etc. Attention will be paid to correct language use and other technical matters connected with these kinds of writing.

**LIT 221:**  
African Oral Literature in Translation  
This course will examine the major genres and traditions of African Oral Literature in English translation.

**LIT 222**  
Literature, Popular Culture and the mass Media  
The course will deal with the interface of literature and the institutions of popular folk culture, festival events, radio, television, newspapers (magazines, music, video, film, computers and the electronic media).

**LIT 223**  
The English Novel from the Victorians to the present  
A study of the development of the English novel with focus on major authors and the aesthetic features of their works, from Dickens to contemporary authors.

**LIT 224**  
English Drama from Shakespeare to the present  
In this course, representative samples of the drama of Shakespeare and other major dramatists up to the modern period will be studied.

**ENG 225**  
Advanced English Composition II  
This course extends the discussions in ENG 215.

**LIT 226**  
Modern Comedy: Moliere to Soyinka  
A selection of comedy texts from Moliere to Soyinka.
LIT 311  Nigerian Oral Literature in English Translation I
This course will build on the general introduction in LIT 121 and examine the major genres and traditions of Nigerian Oral literatures in English translation.

LIT 312  African Written Fiction
A study of the novels by African (and expatriate) authors dealing with African themes, life and experience. The course will cover the major regions of the continent, the representative novelists of each region, and their works.

LIT 313  African Written Poetry
A study of the origin and development of written poetry in various parts of Africa. The pioneer poets will be studied with a view to showing how their approach to poetry differs from that of the younger generation of African poets. Emphasis will be given to the work of the major poets in East, West and South Africa.

ENG 314  The English Language in Nigeria
The course is designed to study the history of English in Nigeria, the consequent emergence of virile local varieties and changes leading to the evolution of a Nigerian standard. Also to study the language in relation to distinctive properties of some Nigerian Languages and how these may affect performance in standard English.

LIT 321  Nigerian Oral Literatures in English Translation II: Field Work Project
This is a practical course involving field work research, data collection, translation, classification and analysis of samples of any genre/tradition of oral literary expression.

LIT 322  African Written Drama
This course is a study of the plays by African (and expatriate) authors dealing with African themes, life and experiences. The course will cover the major regions of the continent, the representative dramatists of each region, and their works.

LIT 323  English Poetry: Beginnings to Metaphysicals
A study of medieval, Elizabethan and metaphysical poetry. Emphasis will be on Chaucer, Wyatt, Shakespeare’s sonnets and the metaphysicals including Donne, Herbert, Marvell.

ENG 324  Discourse Analysis
Introduction to the principles and practice of discourse analysis. Emphasis to be on practical analysis study and description of relevant textual materials such as advertisements, obituaries, cartoons, compliments, greetings, etc.

LIT 411  Literary Theory and Criticism
The course deals with the theory of Literature in general; theories of poetry, drama and prose fiction. It also focuses attention on the lecture and approaches to literary criticism by examining the history of English criticism with emphasis on major themes and general critical principles. Attempt will be made to relate the readings to problems in the criticism of African Literature.

LIT 412: Commonwealth Literature
This course will concentrate on a study of the major themes and literary trends in the following areas of the Commonwealth: Australia, Canada, India, New Zealand and the West Indies. Attempt will be made to determine the issues common to writers in the Commonwealth. The course will be
thematically organized and will examine, among other things, the problem of language in creative writing in the Commonwealth.

**LIT 413 African-American and Caribbean Literature**
The course will present a comprehensive survey of the literature produced by writers of the Black diaspora in North America (USA and Canada) and the English-speaking Caribbean. Lecturers will focus on the literary response to the history, socio-economic and political movements during the last three hundred years and in more recent trends in Afro-American and Caribbean literature.

**LIT 414 English Poetry: 18th Century to Present**
This course is a study of the poetry of the Augustan period with emphasis on the development of the heroic couplet and the Social and Political events that generated the poems. A study of the Romantics and Victorians as well as the Moderns terminates the period.

**LIT 415 Research Methods**
A prerequisite for the project (LIT 424), the course introduces students to methods and tools of research.

**LIT 416 Special Author (Shakespeare)**
A study of Shakespearean drama and poetry, noting Shakespearean criticism over the centuries and emphasizing contemporary critical approaches; a clustering of Shakespeare’s plays into histories, tragedies, comedies, problem plays and last plays will guide the selection of plays to be studied.

**LIT 421 Stylistics**
This course begins with an examination of the concepts of style and stylistics. It analyses several aspects of English usage in literary texts (prose, drama and poetry) with such texts forming the basis of the descriptive characteristics (graphological, phonological, syntactic, morphological and lexical semantic) as they manifest in these texts. The distinctive features of the language of literature as they manifest in these texts are then evaluated.

**LIT 422 Literature of Travel and Adventure**
The course aims at exploring the literary features of works dealing with travel, adventure, space and other worlds. Authors to be studied include Daniel Fagunwa, Amos Tutuola, Cyprian Ekwensi, Jonathan Swift, Ernest Hemingway, H.G. Wells. The course will stimulate interest in the links between the literary acts, travel and tourism business.

**LIT 423 Folklore in African Literature**
This course will examine the influence of folklore and oral traditions on African literature. Students will be required to identify folklore themes, narrative genres, structures and oral fictive representation and idioms.

**LIT 424 Workshop in Creative Writing**
This is a practical application of the theories of creative writing in their various forms.

**LIT 499: Project**
This is a paper from twenty-five to forty pages, researched and written under the guidance of a supervisor. Its purpose is to give final-year students an opportunity to engage in independent research in an area in which they are especially interested.
SUMMARY

100 LEVEL  37  Units
200 LEVEL  45  Units
300 LEVEL  38  Units
400 LEVEL  36  Units
TOTAL  156  Units

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING

Staff List

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>RANK/SPECIALIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. OKAFOR, F. C.</td>
<td>B.Sc (UNN); M.Sc, Ph.D (Western Ontario, Canada)</td>
<td>Rural Planning &amp; Dev., Agricultural Geography, Environmental Resources Management</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Degree Type</td>
<td>Specializations</td>
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<tr>
<td>2.</td>
<td>FOLORUNSO, I.</td>
<td>B.Sc, M.Sc. (Benin)</td>
<td>Urban Geography, Quantitative Techniques, Research Methods</td>
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<td>3.</td>
<td>EKUASE, Innocent O.</td>
<td>B.Sc, M.Sc. (Benin)</td>
<td>Physical Geography, Geomorphology, Biogeography, Climatology</td>
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<tr>
<td>4.</td>
<td>IDEHEN, Friday O.</td>
<td>B.Sc., M.Sc. (Benin)</td>
<td>Population Geography, Settlement Geography</td>
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<tr>
<td>5.</td>
<td>OSAKPOLOR, Stephen E.</td>
<td>B.Sc. (Benin), M.Sc. (FUTA)</td>
<td>GIS and Remote Sensing, Philosophy of Geography, Surveying</td>
</tr>
<tr>
<td>6.</td>
<td>OLUKU, Sunny</td>
<td>B.Sc., M.Sc. (Abraka)</td>
<td>Environmental Resource Management, Quantitative Techniques, Research Methodology</td>
</tr>
</tbody>
</table>

**AIMS AND OBJECTIVES OF THE DEGREE PROGRAMME**

The basic aim of the Department is to provide sound empirical and theoretical training that will enable students to understand, analyze and interpret the spatial patterns of human activities and natural processes operating on the earth’s surface. The impact of these processes on both the human and natural environment and policy option to tackle them at national and international levels represents a core part of the curriculum.

The undergraduate courses of the Department are structured to lay a strong foundation in all the major branches of Geography and Regional planning. Students are trained also in the applied aspects of the subject to equip them for a wide range of professions that are open to Geographers and regional planners in Nigeria, including Urban and Regional Planning, Environmental Management, Climatology, Geomorphology, Rural Geography, Geographic Information System (GIS), Population Geography, Transportation Geography, Political Geography, Population Projects and challenging work in industry and government/parastatals. Training is also given to the students in the philosophy and techniques of the subject to equip them for further specialization at the post-graduate levels.

**ADMISSION REQUIREMENTS**

**A. UME (Four-Year Degree Programme)**

Five ordinary level credit passes which must include English, Mathematic, Geography and any other two subjects at not more than two sittings.

**B. DIRECT ENTRY (Three-Year Degree Programme)**

i. NCE with at least a merit pass in Geography and any other subject. A merit pass in the NCE General English is acceptable as fulfilling the English Language requirement for direct entry only; plus credit pass at least two relevant subject at ‘O’ Level including mathematics.

ii. At least five credit passes in the General Certificate of Education or its equivalent of which at least two shall be at the advanced level or five Credit passes of which at least three shall be at the Advanced level provide that such are not counted at both levels of the examinations. The ‘A’ level subject must include Geography and any subject(s), while the ‘O’ level subjects must include English Language and mathematics.
DEGREE PROGRAMME AND REQUIREMENTS

In order to obtain a Bachelor of Science (B. Sc. Degree in Geography and Regional planning), a student in the fourth year programme is required to complete a minimum of 170 units of courses as prescribed by the department, while those on the three-year programme are to complete a minimum of 140 units. To graduate, all compulsory and required courses in the department must be passed. This is in addition to completing and passing courses in general Studies and approved elective course from the following department: Agriculture, Business Administration, Botany, Chemistry, Computer Science, Economics, Administration, Sociology and Anthropology.

COURSE CREDIT AND GRADING SYSTEM

The University operates a Course Credit System. This is a system in which subject areas are broken down into examinable units called courses. Students thus earn credits if they pass course(s).

A credit Unit itself is a specific number of hours of Student teacher contact per semester. There are specified minimum and maximum numbers of credits you are supposed to take during the semester and session.

The system itself evolved, in part from the criticism that it is not fair to teach or train a person for three or four years only to come and examine him in three or four hours in order to determine whether he knows or not what he has been taught. Hence a good proportion of the marks are allocated to continuous assessment; and in some case it is not possible to pass a course without performing well in the continuous assessment. With the passage of time and as the system is practiced you will understand it better.

There is however a term used by the system with which you should get acquainted from the onset. This term is PROBATION. If at the end of the Semester or Session your Grade Point Average (G.P.A) is less than 1.00 then you will be placed on probation. If at the end of this probation period, your G.P.A is still less than 1.00 then the Department and or the University may reluctantly but firmly send you away. Grade point (G.P.) itself is derived from the actual raw scores in a given course obtained by a student. It ranges from 0-5, covering scores 0% to 100%. Grade Point Average (G.P.A->) is thus the average performance of a candidate for a semester expressed in grade points earned in the course taken by the candidate (See Table 1)

Course Credit system - Is a system in which subject areas are broken down into examinable units called course. Students thus earn credits if they pass the course(s).

Credit Unit – This is a specified number of hours of student Teacher contact per semester. For our purpose one credit unit is one hour of lecture or tutorial per week per semester.

In case of other forms of teaching which are equivalent to lectures or tutorials such as seminars, laboratory or fieldwork, or industrial attachment may be the equivalent to one week of industrial attachment of one hour of lecture per week per semester.

Grade Point (G.P.) – Is determined from the actual raw score in a given course G.P. range from 0-5 covering scores of 0% - 100% (See Table Percentage Scores Converted to G.P. in Table 1).
Grade Point Average (G.P.A.) – This is an up-to-date average of mean of the Grade point (G.P.) attained in each course by the credit units assigned that course and then dividing the sum by total credits taken for the semester.

Cumulative Grade Point Average (C.G.P.A) – this is an up-to-date average of mean of the Grade Point (G.P.) earned by a student at any point in programme of student, i.e. the student’s overall performance at the given time. It is derived by:

i. Multiplying the Grade Point by the respective credit units:

<table>
<thead>
<tr>
<th>Percentage Grade</th>
<th>Letter Grade</th>
<th>Grade Point (GP)</th>
<th>Grade Point Average Derived by multiplying II and III and divided by total credit</th>
<th>Cumulative Grade Average (GPA)</th>
<th>Class of Degree Scores (CGPA)</th>
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<td>A</td>
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<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
<td>3.50 – 4.49</td>
<td>2nd Class Upper</td>
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<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
<td>2.40 – 3.49</td>
<td>2nd Class lower</td>
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</tr>
<tr>
<td>45 – 49</td>
<td>D</td>
<td>2</td>
<td>1.50 – 2.39</td>
<td>Third Class</td>
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<td>40 – 44</td>
<td>E</td>
<td>1</td>
<td>1.00 – 1.49</td>
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<tr>
<td>0. 39</td>
<td>F</td>
<td>0</td>
<td>0-0.99</td>
<td>Fail</td>
<td></td>
</tr>
</tbody>
</table>

ii. Then dividing the sum by the total number of credit units for all the courses registered by the student.

SCORING AND GRADING SYSTEM SPECIAL NOTES

(I) Work Load - A full-time student should register for NOT less than fifteen (15) credits per semester and maximum of twenty four (24) credits per semester.

(II) To Qualify For The Award Of A Bachelor's Degree of Igbinedion University, Okada.

A candidate shall:

i. Have been duly admitted for the degree programme

ii. Have been matriculated into the University

iii. Have paid all required fee and debts

iv. Have passed the required general studies Course

v. Have passed all compulsory courses in the relevant degree programme

vi. Accumulate the minimum number of Credit unit for the award of a bachelor's degree in the particular programme.

Note have stayed for longer than the prescribed period of study for Bachelor's programme.

CURRICULUM FOR THE DEPARTMENT OF GEOGRAPHY & REGIONAL PLANNING

The approved courses offered in the department for the four-year and three-year degree programmes are listed as follows:

COURSE CODES AND DESCRIPTIONS

100 LEVEL COURSES : FIRST SEMESTER COURSES

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>UNITS/STATUS</th>
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</thead>
<tbody>
<tr>
<td>GRP 111</td>
<td>Introduction to Elements of physical Geography 1</td>
<td>2/C</td>
</tr>
<tr>
<td>GRP 112</td>
<td>Elementary Land Surveying</td>
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</tbody>
</table>
GRP 114  Introduction to Elements of Human Geography 1  2/C

Total GST Courses  8/C

One Elective from Social Science  2/C

TOTAL UNITS  18

SECOND SEMESTER COURSES
GRP 121  Introduction to Elements of Physical Geography 2  2/C
GRP 122  Local Field Studies- Okada Region and Environ  2/C
GRP 123  Introduction to Environmental Science  2/R
GRP 124  Introduction to Elements of Human Geography 2  2/C

Total GST Courses  10
One Element from Social Science  2

TOTAL UNITS  20

200 LEVEL COURSES:  FIRST SEMESTER COURSE

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>UNITS/STATUS</th>
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<tbody>
<tr>
<td>GRP 211</td>
<td>Introduction to Geomorphology and Soil Geography 1</td>
<td>2/C</td>
</tr>
<tr>
<td>GRP 212</td>
<td>Spatial Organization of Society</td>
<td>3/C</td>
</tr>
<tr>
<td>GRP 213</td>
<td>Introduction to Geography Information System 1</td>
<td>2/C</td>
</tr>
<tr>
<td>GRP 214</td>
<td>Regional Geography of Nigeria</td>
<td>4/C</td>
</tr>
<tr>
<td>GRP 215</td>
<td>Introductory Climatology and Biogeography 1</td>
<td>2/C</td>
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<tr>
<td></td>
<td>TOTAL GST Courses</td>
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<tr>
<td></td>
<td>One Elective from Social Science</td>
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</tr>
<tr>
<td>GRP 216</td>
<td>Geographical Thought Theory</td>
<td>2/R</td>
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</table>

TOTAL UNITS  17

SECOND SEMESTER COURSES
GRP 221  Introductory Geomorphology and Soil Geography 2  2/C
GRP 222  Introduction to Population Geography  3/C
GRP 223  Introduction to Geography Information System 2  2/C
GRP 224  Regional Geography of West Africa  2/C
GRP 225  Statistics for Geographers  2/C
GRP 226  Geographic Thought Theory  2/R
GRP 227  Introductory Climatology and Biogeography 2  2/C

Total GST Courses  2
One Elective from Social Science & one from outside

TOTAL UNITS  17

300 LEVEL COURSES: FIRST SEMESTER COURSES
GRP 311  Field Work Methods  3/C
GRP 312  Advanced Quantitative Technique 1  2/C
GRP 313  Economic Geography  2/R
GRP 314  Population Geography 1  2/R
GRP 315  Biogeography  2/R

Two Elective Courses from:
GRP 316  Settlement Geography  2/E
GRP 317  Hydrology  2/E
GRP 318 Geographic Information System 2/E

**TOTAL UNITS** 17

**SECOND SEMESTER COURSES**

- GRP 321 Practical Field Studies and Analysis 3/C
- GRP 322 Advanced Quantitative Technique 2 2/C
- GRP 323 Regional Geography of Africa 2/C
- GRP 324 Cartographic and Research Methods 2/C
- GRP 325 Geographical Methodology 2/C
- GRP 326 Population Geography 2 2/C
  - Two Elective Courses from:
    - GRP 327 Soil Studies 2/E
    - GRP 329 Applied Climatology 2/E
    - GRP 329 Vegetation Studies 2/E
    - GRP 330 Land Evaluation 2/R

**TOTAL UNITS** 17

**400 LEVEL COURSES: FIRST SEMESTER**

- GRP 411 Systematic Geography of Nigeria 1 2/C
- GRP 412 Contemporary Philosophy & Methodology in Geo. 1 2/C
- GRP 413 Advanced Cartographic Methods 1 2/C
- GRP 414 Research Project 1 3/C
  - One Required Course from:
    - GRP 415 The Developing World 2/R
    - GRP 416 The Developed World 2/R
    - GRP 417 Demography 2/R
  - Two Electives from profession specializations in the two areas
    (natural Recourses, Urban & Regional planning) 6/E

**TOTAL UNITS** 17

**SECOND SEMESTER COURSES**

- GRP 421 Systematic Geography of Nigeria 2 2/C
- GRP 421 Contemporary philosophy & Methodology in Geo. 2 2/C
- GRP 423 Advanced Cartographic Methods 2 2/C
- GRP 424 Research Project 2 3/C
  - One Required Course from:
    - GRP 425 The Developing World 2/R
    - GRP 426 The Developed World 2/R
    - GRP 427 Demography 2/R

**TOTAL UNITS** 17

Two Elective from professional specializations in two areas
(Natural Resources, Urban & Regional Planning) 6/E

**TOTAL UNITS** 34

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<tr>
<th>TOTAL</th>
<th>Total units for the FIRST SEMESTER</th>
<th>second Semester</th>
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</tr>
<tr>
<td>YEAR TWO</td>
<td>18</td>
<td>16</td>
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</table>
DETAIL COURSE DESCRIPTION

100 LEVEL

GRP 111: Introduction to Elements of physical Geography 1 (2units/C).
This course is a systematic survey of the inter-related composition and structure of the lithosphere, atmosphere and hydrosphere. The nature, distributions, evolution and significance of the various types of land forming processes/agent; tectonic/endogenetic processes.

GRP112: Elementary Land Survey [2unit]
This course is introductory to land surveying, type of plane and elementary methods. Rectangular coordinate systems, circumvention of obstacles, erecting and dropping of perpendicular lines. Field instrument, Field codes and ethics; open and closed traverse; compass survey, booking, plotting, leveling etc.

GRP 113: Introductory Practical Geography [2 unite/C]
This course covers practical aspects of map reading, location. The language of maps, marginal information, conventional signs/symbols, map scales, representation of relief features and related problems, cross-sectional drawing, map enlargement and reduction; vertical exaggeration and calculation; qualitative and quantitative drainage network analysis.

GRP 114: Introduction to Elements of Human Geography 1 [2unit/C]
This is an introductory course to Human Geography and examines the nature and scope of human geography. It examines key concepts in human geography, examine domestication, animal and plant dispersal, world agricultural regions, population growth, distribution and demographic characteristics. Human evolution and evolution, patterns, distribution and function of settlement.

GRP 121: Introduction to Elements of Physical Geography 2 [2units/C]
This course complements topics covered in GRP 111. The topics to cover includes: the Earth’s radiation, structure of the atmosphere, hydrosphere; Atmospheric and oceanic circulation system; cycling of matter and energy in ecosystem.

GRP 122: Local field Studies-Okada region and environ [2 units/C]
The essence of this course is to familiarize students with their local environments and to practice classroom lectures in both Human and Physical geography. Students will collect some basic data on the region for report Presentation. Students will be asked to pay towards the cost of the fieldwork.

GRP 123: Introduction to Environmental Science (2units/R)
The objective of this course is to introduce students to the current environmental issues: atmosphere, biosphere, hydrosphere and lithosphere. Topics to cover shall include environmental pollutions, natural disaster-earthquakes, floods, drought, hurricanes, etc. The topics will be given global perspectives with particular attention to Nigeria.

GRP 124: Introduction to Elements of Human Geography (2units/C)
The underlying objective of this course is to complement areas covered in GRP 114. The topics to cover include environmental resources, types and distribution: relationship between resources and tertiary activities: impact of human activities on the environment. The course shall also cover areas
like elementary theories of demographic transition: the role of movement and flows of people, goods, energy and ideas and evolution of settlements.

200 LEVEL COURSES

GRP 211: Introductory Geomorphology and Soil Geography 1 (2units/C)
The course is introductory to basic concepts and analysis of Geomorphic processes; The course examines the meaning and scope of Geomorphology; structure, origin, types and characteristics of rocks and the nature and origin of continents and time in landscape development; mass and slope movement, coastal landforms, karst landform; Davision and penckian cycle of erosion concepts and landforms classification etc.

GRP 212: Spatial Organization of Society (3units/C)
The course exposes students to some basic concepts of spatial organization: Principles of classification of geographical phenomena, growth and spatial Distribution of population. Production system-agricultural model and typology And distribution: location spacing and growth of settlements, movements over Space and transportation network; gravity model and the basis of interaction exchange of goods and services.

GRP 213 Introduction to Geographic Information System 1 (2units/C)
The course shall introduce students to the basic concepts and definition of GIS, Use of GIS in data capturing types of geographical data and data capture, remote Sensing system, imageries across the spectrum, image acquiring, image restoration and enhancement.

GRP 214: Regional Geography of Nigeria (4units/R)
This course exposes the students to the general geography of Nigeria with Emphasis on the nature of the physical environment, the history, people and Culture: system of agriculture, population, distribution and movements. The role Of water resources, forest resources and mineral resources on national development. The geography regions of Nigeria are identified and described.

GRP 215: Introductory Climatology and Biogeography 1 (2units/C)
This course examines the general circulation of the atmosphere-scales and laws of motion forms that drive the atmosphere. Major features and models of circulation, weather producing system-air masses and fronts, frontal and non- frontal depression, tropical system.Climate classifications and global system of Climate. Heating of the earth-atmosphere system, atmospheric moisture, etc

GRP 216: Geographical Thought Theory 1 (2units/R)
This course examines the History of Geography: Philosophical issues in Geography, the growth of geographic knowledge, geography in the Classical Period, the Muslim and Christian geography in the Middle Ages, the age of Exploration and the impacts of discoveries on geography.

GRP 221: Introductory Geomorphology and Soil Geography (2units/C)
The course covers structural landforms, the meaning and scope of soil geography, factors of soil formation, soil structure, types and distribution of soil, soil characteristics and flora distribution, agricultural practices and soil distribution.

GRP 222: Introduction to population Geography [2unit/C]
The course will examine sources of population data, population growth and components, population theories and population models, migration process and consequences. The structure of Nigerian
population; distribution pattern and their implication; methods of estimation and projecting population figures.

**GRP 223: Introduction to GIS 2 [2 unit/C]**
This course is complementary to GRP 213 and intends to expose students to image processing and interpretations; image storage and retrieval formats, application in environmental resources management, urban planning and regional planning etc.

**GRP 224: Regional Geography of West Africa [2 units/C]**
The course is intended to expose students to the systematic study of the sub-region, the structure and components of population, population distribution and growth; natural and economic resources of growth and ECOWAS.

**GRP 225: Statistics for Geographers [2 unit/C]**
This course introduces students to statistical methods as applied to geography. Students are introduced to the place of statistics in geography, data collection, description and presentation. The course will expose students to discrete, abstract and continuous variables, data scales; measures of central tendency and variability, methods of sampling and point pattern analysis.

**GRP 226: Geographical Thought Theory 2 (2units/C)**
The focus of this course is to examine the history of development of geography in America, Britain, France, Germany and Russia and Africa. The role of the evolutionary theory in geography, Quantitative revolution in geography and Nigerian geography.

**GRP 227: Introductory Climate and Biogeography 2 (2units/C)**
This course is complementary to GRP 215 and the main focus is on the dynamics of plant communities, the ecosystem idea, Properties, energy flow and the food chain, ecological efficiencies, tropics structure and pyramids, biological production etc. Man’s influence on the atmosphere and vegetation are also examined.

**300 LEVEL COURSES**

**GRP 311: Fieldwork Methods 1 (3units/C)**
This course will examine types of research-historical, experimental and survey methods. Fieldwork design-aim, selection of topics and site, formulation of hypothesis, data types and scale of measurements, data collection, data complication, tabulation and frequency distribution, and methods of data analysis, field experiments-water level fluctuations, and Writing of research report.

**GRP 312: Advanced Quantitative Technique 1 (2units/C)**
The aim of this course is to expose students to matrices, binary number system, integration and differentiation, spatial analysis, the nature of raw materials, measures of central tendency, dispersion, variability, frequency distribution etc.

**GRP 313: Economic Geography [2 units/R]**
The meaning and scope of Economic Geography. Production system-hunting and gathering, agriculture fishing, forestry, industrial production system, factors of production: comparative advantage; economics of scale, economic rent, service industries-trade and transport, global trade and movements. Problems of developing world.

**GRP 314: Population Geography 1 [2 units/R]**
Vital statistics, evolution and problems of population. History of census from classical era and problems associated with Census data.
Spatial distribution of population; movement and effects on the source and destination. Malthus Population model and Demographic Transition Theory.

**GRP 315: Biogeography [2 unit/R]**
Vegetation types: factor affecting flora and fauna distribution. The concept of ecosystem. The structure and functioning of terrestrial and aquatic ecosystems. Vegetation change through time: adoption, succession and climax.

**GRP: 316: Settlement Geography [2 units/E]**

**GPR 317: Hydrology [2 units/R]**
The will cover the scope and content of hydrology, hydrological as an important area in geographic studies.

**GRP 321: Practical Fieldwork Analysis 2 [3 units/C]**
Students are encouraged to write their research project showing the ability of the knowledge gained in GRP 311. Ability to show how they organize and present the research materials in a scientific manner will be appreciated.

**GRP 322: Advanced Quantitative Technique 2 [2units/C]**
Areas to be covered include probability theory. Permutation and combination, Regression and correlation comparison of samples-parametric and non-parametric; sampling and method of sampling.

**GRP 323: Regional Geography of Africa [2 units/C]**
The course will cover the location, size and structure of Africa, the major relief and drainage system of Africa. Colonization and settlement, and decolonization of Africa; resources and economic activities of Africa, transport systems, regional and international trade of Africa.

**GRP 324: Cartographic and research Methods [2 units/C]**
The students shall be exposed to basic draughtsmanship, conception, design and execution of map projection. Map interpretation and air photo-interpretation; computer cartography and elementary land surveying.

**GRP 325: Contemporary philosophy and methodology in geography [2 units/C]**
The focus of this course will be on the current methodology and philosophy of geographic research. Emphasis will be on the recent paradigms shifts within geography; the scientific approach to geographic research; quantification in geography; classification in geography; theories and models in geography; system analysis in geography; humanistic geography structural explanation in geography; geography and society; careers in geography.

**GRP326: Population Geography 2 (2units/R)**
The course will cover theories and concepts of population, determinants and spatial aspects of mortality, fertility and migration. Population Composition and development population policies.

**GRP 327: Soil Studies (2units/E)**
Definition of soil physical and chemical properties of soil, soil profile Development, soil formation, soil types, global analysis of soil classification, Soil erosion and conservation measure, plant and soil relationship.
GRP 328: Applied Climatology (2units)
Bioclimatology, agro-climatology climate construction, global circulation Of ocean current and associated climatic effects hydrological cycle climatic Classification climatic region of the world, global pressure and wind System.

GRP 329: Vegetation Studies (2units)
Precipitation and vegetation Studies, vegetation pattern in the world Vegetation resource and conservation, vegetation and development patterns, Vegetation type of Nigerian and agriculture resources, human activities and Micro-organism.

GRP 330; Internship/Industrial Training
The course covers three months attachment relevant and approved Geographical, environmental and planning organization Course assessment would be based on report from the organization, staff supervisors and Individual students report of practical experience

400 LEVEL COURSES
GRP 411: Systematic Geography of Nigerian 1 (2units)
Location, size structure, landforms, drainage climate, soil and vegetation of Nigerian. Population size, characteristic, agricultural activities-farming Type and crop production. Vegetal resources, water resources and mineral resources. Population size, growth and distribution: rural and urban settlement.

GRP 412: Contemporary Philosophy and Methodology in Geography 1 (2unit/C)
The course will focus on the current methodology and philosophy ofGeographic research. The course will also examine recent paradigm shifts within geography; quantification in geography.

GRP 413: Advanced Cartographic Method 1 (2unit/C)
Scope and limitation of the visual presentation of statistics, source and Manipulation of statistic for visual presentation, significance and choice of Technique, review of cartographic, graphic and diagrammatic techniques.

GRP 414: Research project 1 (3unit/C)
Guided original research project based on collection, processing and Analysis of data from field situation of student chosen topic.

GRP415: The Developing World 1 (2units/R)

GRP 416: The Development World 1 (2units/R)
Differences of the developed from the developing world. Distribution Of income and standard of living. The historical evolution of the developed economies. Geographical bases economies of Western Europe, USA and USSR: performance of agriculture, manufacturing and service. International trade and implication for the world economy.

GRP 417: Demography 1 (2units/R)
GRP 418 GRP 419: Electives from two in Nature Resources, Urban And Regional Planning

GRP 421: Systematic Geography of Nigeria (2units/C)
The course exposes students to the geography of Nigeria focusing on a Range of physical environment, spatial pattern of ecological zones, Population distribution and movements: and natural resources base: Agriculture production and marketing system: industrialization and Transport development, mineral, basis of region development and specific Regional development problems.

GRP 422: Contemporary philosophy and Methodology in Geography 2 (2units/C)
The student will be exposed to theories and models in geography: System in geography, foundation modern geography, growths of human Geography as a spatial science,, humanistic geography, feminist Geographies, regions models and classes some location models and Structural explanation in geography

GRP 423: Advanced Cartographic Method 2 (2units/C)
Scale and error factors: map design, cartography as a communication System, the use of mechanical, optical and photographic aids in geography, The logic of conceptual diagrams, including system diagram

GRP 424: Research project 2 (units/C)

GRP 425: The Developing world 1 (2 units/R)

GRP 426: The Developed world 1 (2units/R)
Differences of the developed from the developing world. Distribution Of income and standard of living. The historical evolution of the Developed economics. Geography bases of economies of western Europe, USA and USSR; performance of agriculture, manufacturing And services. International trade and implication for the world economy.

GRP 427: Demography 1 (2units/R)

GRP 425: The Developing world 2 (32units/R)
Nature and characteristic of under-development in Third world Nation, poverty, income distribution and development, production System: human and natural resources and technology. Development
Strategies: industrialization, education and manpower development. The Population problem, international trade and transfer of resources.

**GRP 426: The Developed World 2 (2units/R)**

**GRP 427: Demography 2(2units/R)**

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**DEPARTMENT OF INTERNATIONAL RELATIONS & STRATEGIC STUDIES**

**STAFF LIST**

**Dr. Femi Olufunmilade**
BSc, MA, Ph.D.
(International Relations/Strategic Studies)
Head of Dept.

**Prof. Eghosa Osaghae**
BSc, MSc., PhD
(Comparative International Politics)
Professor
BRIEF HISTORY OF THE DEPARTMENT

The Department of International Relations and Strategic Studies is one of the Departments of the College of Arts and Social Sciences in Igbinedion University, Okada. Igbinedion University is the Premier Private University in Nigeria, with Certificate No. 001 issued on April 20, 1999.

The primary objective of the University is to advance knowledge, wisdom, and understanding through dedicated research, teaching and service to the community, nation and humanity. The university’s vision is to become a centre of academic excellence through focused teaching and research that respond to communal and global human needs. While its mission is to be among the best and most successful Universities in the world.

The founding father of the University and its Chancellor and Visitor., Chief (Dr.) Sir Gabriel Osawaru Igbinedion was partly motivated by the need to bequeath to present and future generations of Nigerians, University Education of International Standard with regular and uninterrupted academic calendar as obtains outside Nigeria and the need to nurture a university that with time can rank among the best in the world in terms of personnel services, students’ performance in learning and character, equipment an facilities: as well as academic standards.

The University is geared towards meeting the four key roles of any University worth its salt: teaching, research, learning and community service and being both a store house of social civilization and a catalytic arrowhead for moving the civilization forward and receding the frontiers of ignorance, disease, technological backwardness and man’s inhumanity to man. Igbinedion University is a liberal
and secular institution with strong moral values and a guiding motto of “knowledge and Excellence”. It is committed to the production of a total being who can stand up for truth, justices and excellence.

The University admitted its batch of 111 students on October 15, 1999 for its first academic session of 1999/2000. From this small size, the student population has steadily risen to 5,000 today in the over eight (8) Colleges which serve as the engine room for high quality degree courses offered by the University which has rewarding links with industry, commerce and prestigious Universities in Nigeria, Africa and the world for the benefit of its students.

The strength of the University lies in its orientation towards practicality, productivity, self-employability, self-sustenance and self-reliant training and education for its students. The University’s current Vice Chancellor is Prof. Eghosa Osaghae.

The Department of International Relations and Strategic studies came into existence in the 2001/2002 session (September 1, 2001) with only two students (offered direct entry admission) and graduated its first batch of students in the 2003/2004 sessions. The department has remained one of the leading departments in the university providing high quality education and imparting relevant skills and competencies to students in International Relations, Diplomacy, and Strategy. In short, the department, following its students and staff’s successful and historic tour of strategic national and international establishments at home and abroad prides itself today as the strategic flagship of Igbinedion University. Theses establishments include the Defence Headquarters ECOWAS Commissions, Nigeria Police Force Headquarters, United States Embassy, National Defence College, Chinese Embassy, Nigeria’s High Commission in Ghana, University of Ghana, the Embassy of Nigeria, European Union Headquarters in Belgium, to list a few.

The history of the department revolves around certain leadership personalities who saw to it affairs. These are Mr. N. Akpan who was the pioneer Lecturer in-charge; Mr. Nwanakama who came after him as Lecturer in-charge and Professor Yesufu who oversaw the department from his Department of English. Professor A. Uba handled the department briefly from the Guidance and Counseling Unit, before Mr. J. Aghahowa came on board as Acting Head of Department. He handed over to Professor O.B.C. Nwolise who became the first substantive Head of the Department from January 15, 2008 and was succeeded in 2009 by Dr. Joseph Aihie in who handed-over the baton to the incumbent, Dr. Femi Olufunmilade in August 2011. The department got its full accreditation from the National University Commission (NUC), for the first time, under the leadership of Dr. Olufunmilade.

Since January 2008, the department commenced a process of transformation and expansion from ‘International Relations’ to ‘International Relations and Strategic Studies’. The essence is to enable the University be part of the pioneering processing of Africa for the advancement of strategic thought (which is currently very low in the continent) for better governance and catalyzed development to make Africa relevant in 21st century world affairs. In pursuit of this, the department undergraduate courses have been expanded. Also, the department has a comprehensive postgraduate programme with academic professional components, which enables it to offer academic M.Sc., and PhD Political Science (International Relations specialization) in conjunction with a sister department - Political Science and Public Administration – since it has requisite staff germane for that.

3. Vision of the Department
The vision of the Department is to be counted among the first ten outstanding departments of International Relations and Strategic Studies in the world.

4. Mission of the Department
The mission of the Department is:
a. To make the study of International relations really international and imbued with practical diplomatic and strategic calculus.

b. To produce qualified and competent graduates who can stand their grounds anywhere in the world and serve the nation and humanity with expertise and humanity, in diplomatic, industrial, or administrative circles.

c. To establish productive relations with strategic national and international institutions.

5. Student Advisers
i. Dr. (Mrs.) Chinyere Okeke 100 Level
ii. Dr. Nnamdi Nwaodu 200 Level
iii. Mr. Onyebuchi Ugwu 300 Level
iv. Mr. Emeka Agba 400 Level
v. Dr. Roosevelt Idehen Master’s Students
vi. Dr. F.S.O. Osaghae Students’ Association

Undergraduate Degree Programme
At the undergraduate level, the department offers a degree programme open to both UME and Direct Entry students leading to a B.Sc. in International Relations and Strategic Studies. The programme is designed to train graduates who would be well informed, equipped, and exposed to contemporary issues to apply themselves effectively to the ever-changing global environment. The programme is also aimed at producing graduates who understand, appreciate and comprehend the burning issues in International Relations and can find professional engagements and careers in diplomatic service, the security and intelligence agencies, multinational corporations, international organizations and the academia, in addition to those who will operate in private capacities.

The requirements for the award of this B.Sc. under the 4 years degree programme are:

a. **UME**: This requires a minimum of five credits in the school certificate examination or its equivalent at not more than two sittings including English Language, Governments, Economics and two other courses. Candidates are also expected to have at least a pass in Mathematics.

b. **Direct Entry**: Three credits in the School Certificate or its equivalent, plus two relevant subjects in the GCE “A” Level or its equivalent, Diploma in Law, International Relations or any other related courses may also be considered.

Courses Offered
The courses offered shall consist of the following for the 3 or 4 years programme subject to general regulations of the NUC and the University.

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<tr>
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<tr>
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<td><strong>Compulsory Courses</strong></td>
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<td>Introduction of African Politics</td>
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<td>IRS104</td>
<td>History of Europe I</td>
<td>3</td>
<td>3</td>
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<tr>
<td>IRS113</td>
<td>Understanding Strategy</td>
<td>3</td>
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<td>FRE117</td>
<td>Introduction to Practical French I</td>
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<td>GST111</td>
<td>Communication in English I</td>
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**Grand Total** 45

### Compulsory Courses

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<td>Law of Nations</td>
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<td>International Politics in the Post Cold War Era</td>
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<td>IRS311</td>
<td>Theories and Practice of Administration</td>
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**Required**

- IRS311 entrepreneurial Studies
- FRE319 Advanced Practical French I

**25**

### 300 LEVEL – SECOND SEMESTER

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<td>Theories of International Relations</td>
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<td>IRS325</td>
<td>Humanitarian and Refugee Studies</td>
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**Required**

- CMP300 Introduction to Computer Applications
- FRE329 Advanced Practical French II

**22**

**Grand total** 47

### 400 LEVEL – FIRST SEMESTER

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<td>IRS418</td>
<td>Strategic Management</td>
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**Electives**

- IRS409 Africa and the Middle East
- IRS411 International Relations in Southern Africa

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<td>IRS406</td>
<td>International Institutions</td>
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<td>IRS408</td>
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<td>IRS416</td>
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**Grand Total** 45

**DESCRIPTION OF COURSES OFFERED IN THE DEPARTMENT OF INTERNATIONAL RELATIONS AND STRATEGIC STUDIES**

**100 LEVEL**

**IRS101: Ancestors of the Contemporary International System**
The course entails a brief survey of the fore-runners of the contemporary international system. It highlights some earlier answers to the problem of co-existence, order and peace; focuses previous examples of arrangements for organizing relations between diverse peoples from which our modern system sprang: The Chou system, the Greek City States, the Egyptian, Assyrian, Persian worlds; and Renaissance Italy etc.

**IRS103: Introduction to African Politics**
Entails the origins, nature and problems of African Politics; problems of colonialism, neo-colonialism and apartheid. Access to power, military rule etc, Africa’s lingering dependence on the former metropolis, and Africa in International Politics.

**IRS104/105: History of Europe I & II**
Ideas, concepts and institutions which influenced the evolution of Europe and sustained it up to the era of the French Revolution and beyond; Feudalism, the church, cities, humanism, renaissance: reformers; the commercial and science revolutions: absolutism, enlightenment; industrial revolution: the advent of the principle of nationality and the globalization of the International system.

**IRS113: Understanding Strategy**
This course is to introduce the students to the meaning of strategy and trace its evolution, application and transformation from classical to contemporary times. The relevance and types of strategy (grand strategy, military strategy etc) as well as the real essence of strategic thinking in personal, group, national and world affairs shall be focused on.

**IRS102: Evolution of the Contemporary International System**
The evolution of the contemporary International system from 1648 up to the end of the second World War: particular emphasis on the European International System and factors which led to the globalization of that system by the end of 1945.

**IRS122: Trans Border Crime**
The course is designed to acquaint students with the knowledge of the concept and the causes of trans-border crimes, types of trans border crimes as well as the implications of trans-border-crimes for national security. The various stratagems of trans-border criminals and syndicates as well as the strategies and institutions for combating these crimes and criminals shall be covered.

**IRS107: Introduction to Political Science and International Relations**
The course introduces students to basic concepts in Political Science and International Relations: politics, power, democracy, influence, authority, sovereignty, state, nationalism, diplomacy, realism etc. The course discusses scientific study of politics, forms of government etc.

**200 LEVEL**

**IRS203: Introduction to Political Analysis**
Entails the role of concepts (democracy, nationalism, terrorism, globalization etc) as the building blocks of political analysis, introduction to social research (use of questionnaire, interview, observation, content analysis etc), difference between layman’s and academic analysis, types of analysis (historical, comparative, statistical etc), and discussion of samples of journal articles, books etc as examples of political analysis.

**IRS205: Political Thought Since Hobbes**
A critical analysis of post 17th century normative political thought with emphasis on liberal democratic traditions, Marxism-Leninism and the thoughts of people like Fanon, Senghor, Nkrumah etc.

**IRS207: New State in World Politics**
The collapse of imperial rule in Asian and African countries, forms of government in the new States, their main preoccupations, their role in international order, UN, international law, international military order, international economic order, international morality; the contemporary new statehood, neutralism, nonalignment, imperialism and ne-colonialism.

**IRS216: Peace Support and International Security Operations**
The course shall focus on the concept of peace support operations, internal security operation, and natural disaster management. It shall cover UN, AU, ECOWAS and bilateral peace support operations, as well as the role of the military and police in internal security management. The institutions in these operations and the problems facing them shall be covered.

**IRS202: Structure of International Society**
The major historical, intellectual and sociological developments which have shaped relations between nations, particularly the industrial and technological revolution; the spread of nationalism, the break up of the European empires and the rise of the superpowers.

**IRS204: Political Thought: Plato-Machiavellian**
A general survey of Classical and Medieval thought up to fifteenth century with a focus on individual thinkers, pre-occupations of political thought, the language and methods of political analysis.

**IRS225: Intelligence Strategy**
The course introduces students to the concept and relevance of intelligence gathering and utilization for security maximization and national security as well as gathering intelligence for personal, group,
and organisational security. The role of the nexus between intelligence and security are examined. The role of relevant national and international organizations such as SSS (Nigeria), KGB (Russia), CIA (USA), M15 (UK) shall be covered.

**IRS210: Element of Contemporary Global Studies**
Issues of Contemporary global interest such as Globalisation, terrorism, Weapons of Mass Destruction, Environmental Degradation, HIV/AIDS, Malaria, etc.

**IRS213/224: Introduction to Statistics for Social Sciences I & II**
The nature of statistics, statistical inquires, forms and design, the role of statistics and basic concepts in statistics.

### 300 LEVEL

**IRS301/302: International Economics Relations I & II**
The economic basis of some of the actions and reactions in international politics, international trade; commercial policy; capital movement etc; role of IMF, World Bank and other monetary agencies; multinational enterprises, customs unions, and currency areas.

**IRS303: International Political System**
The emergence and organization of the modern international system, the political processes in the international community and contemporary thought on state activity, the external needs of states and goals states activity, the means of exerting pressures and the forms of political relationship between states, the dynamic-aspects, revolutionary movements, the external projection of political values and the changing distribution of power and leadership; war as a contingency in international life: mechanism for maintaining International Order.

**IRS305: Law of Nations**
An examination of the foundations of international law, the making of international law, problems of enforcement of international law, international courts, sovereignty versus international law enforcement etc.

**IRS307: International Politics in the Post Cold War Era**
The end of the Cold War and its effects on the international system, the collapse of communism and disintegration of alliance systems; democratisation in the Third World and Eastern Europe; the UN and the challenges of peace-keeping and peace-making; options and tendencies in the emerging world; Africa and the problems of marginality.

**IRS309: Field Trip-Reports**
Visits and attachment to selected international institutions, ministries, diplomatic missions and other agencies relevant to the study and practical aspects of diplomacy, and written reports at the conclusion of the visit or attachment.

**IRS311: Theories and Practice of Administration**
Evolution of administrative/organization theory from the classical through the neo-classical to the modern, relation of administration to politics and the political process; administrative behaviour and various international settings; interplay of political institutions and administrative patterns of political institutions and administrative patterns of behaviour; study of personnel administration, decision making, and bureaucratic organizations.

**IRS315: Defence Economics**
The course is meant to acquaint the students with the relationship between the military sector and the national economy, the meaning of defence economics, peace economics and opportunity cost of war, the contents of defence economics and how the concepts could be applied to the national defence sector.

**IRS304: Diplomacy**
The meaning and historical development of diplomacy; the contribution of individuals to the development of diplomacy; tasks of diplomacy and diplomatic protocol and rules of courtesy; diplomacy and intelligence; acceptance of peaceful methods; mediation, conciliation, and good offices.

**IRS306: Logic and Methods of Political Inquiry**
An examination of the boundary of political studies; the various modes of political analysis with emphasis on scientific methods; the logic and language of inquiry; the problems of political evaluation and the sources of data with emphasis on survey, questionnaire construction statistical association sealing and content analysis together with the reporting of results.

**IRS308: International Politics of Africa**
An investigation into the relationship between Africa and the Great Powers and Africa and International Organizations.

**IRS310: Theories of International Relations**
An examinational of the following basic concepts and theories: power, conflict and accommodation, system’s theory; politics; the theory of coalitions and alliances, and simulation.

**IRS325: Humanitarian and Refugee Studies**
The course shall cover the causes of refugee and displaced persons generation as well as the types and sources of humanitarian disasters and their management problems. International bodies involved in management of humanitarian disasters and refuges will be focused on.

**400 LEVEL**

**IRS401: Foreign Policy Analysis**
Nature of foreign policy as an activity; purposes, aims and determinants of foreign policy; internal and external pressures; decision-making in foreign policy; difficult theories and categories which may be employed. Some selected cases: USA’s decision to go to war in Korea in 1950; the Cuban Missile Crisis of 1962; the British decision to join EEC (1961-1970); the French decision to withdraw from the integrated NATO Command Structure in 1966; and Israel’s decision to go to war in June 1967.

**IRS403: Human Rights**
A study of the nature of human rights; an evaluation of contemporary experience and institutions in protecting and reinforcing such rights both nationally and internationally.

**IRS405: Foreign Politics of Great Power**
The course would examine the foreign policies of the major players in global politics: the USA, Russia, China, Britain, France and Japan. Their role in shaping the trend of global politics, their influence in the UN, the changing patterns of the relations between them on the one hand and Russia on the other, since the collapse of the Soviet Empire would be studied.

**IRS407/420: Research Project**
An investigation and report on a topic in International Relations and Strategic Studies selected with the approval of Head of the Department and supervised by an appointed member of staff.

**IRS418: Strategic Management**
The course covers discussions on the nature and meaning of strategic management; management of disarmament and arms control; x-ray of military strategies and strategic thoughts etc.

**IRS409: African and the Middle East**
An examination of the development of Afro-Middle East political economic, cultural relations, AU and Arab League in Afro-Arab Relations, the Arab-Israeli conflict in Afro-Arab Relations; oil, decolonization, and development issues in Afro-Middle East relations.

**IRS411: International Relations in Southern Africa**
Survey of the contemporary significance of Southern Africa within the context of great powers relations, the emergence and development of the Southern Africa regional system under the impact of the colonial powers and thereafter. The Great Powers, the importance of mineral resources and other economic interests in Southern Africa; the interplay of domestic factors; the issue of race, international conflicts, international rivalries in the external integration; Republic of South Africa in Africa: from confrontation to cooperation.

**IRS413: Technology, Ecology and Environmental Issues in International Relations.**
The role of geography and physical environment in International Relations; linkage between science/technology and world politics, international politics; international politics of population; global ecological changes; environmental pollution; land uses; famine etc; transition from international planetary politics, the challenges of disaster management in this context and response of public policy decision makers.

**IRS415: Politics of International Economic Relations**
The course examines the international economic environments with emphasis on the economies of the less developed countries; the economies of the advanced/developed countries; international economic cooperation, the issues of Third world external debt problem and its overhang with particular reference to Nigeria. The New International Economic Order, WTO, NEPAD, Liberalization of Trade and Globalization.

**IRS417: The Middle East in World Politics**
The growth of the international economy of the Middle East and its political implications; Arab economic nationalism and regionalism in the international economy; problem of political control of the contemporary international economy; economic factors i.e formulation of foreign policy.

**IRS408: Race and Ethnicity in International Relations**
Politics of race and ethnic nationalism, their impact on inter-state relations; patterns of conflict management strategies; materials to be drawn from Europe, Asia, Africa and Americas e.g role of Jewish League in the U.S.A and the concept of overseas Africans and African foreign policy.

**IRS410: Asia in World Politics**
International politics in Asia from World War II to the present, analyzing the decline of the European colonial order in India, Pakistan and South-East Asia; Japan after World War II, the Cold War alliance;
nonalignment the role of the ASEAN; Impact of the changing international order on regional politics and diplomacy.

**IRS412: Europe in World Politics**
The changing political, strategic and economic role of postwar Western Europe. European integration, Atlantic relations; policies towards Eastern Europe and the Third World - present and prospective policy choices.

**IRS414: International Relations in North Africa and the Maghreb**
International Relations between North Africa, the Maghreb and the external world; regional cooperation and its impacts on external relations; impact of religious fundamentalism on regional politics and external relations.

**IRS416: International Politics of Mass Communication**
The politics and manipulative nature of international communication focusing on the role of technology, ideology, culture, economy and international market on the international flow of news among nations; examination of the role of communication in development.

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**DEPARTMENT OF MASS COMMUNICATION**

**INTRODUCTION**

The department of Mass Communication, Igbinedion University Okada was created in the year 2002 to run a degree programme in the College of Arts and Social Sciences after the successful take-off of the University in the year 1999. However, full academic activities in the department began in 2002/2003 session when the university deemed it fit to have a mass communication section whose duty is to provide prospective students a unique opportunity to earn functional degree that will enable them to respond to peculiar needs of Nigeria's growing economy. Curriculum was drawn for the programme in line with the minimum requirement set by the National University Commission (NUC)
and this curriculum has enabled the students to have expertise in myriads of mass communication courses that are supported by liberal education in General Studies with compulsory and core courses offered within the department and electives in economics, law, sociology, psychology, theatre arts, political sciences, English and computer science. The department that started with just ten students has had tremendous numbers of intakes in subsequent academic sessions and it currently has eight full-time academic staff and a moderate number of associate lecturers. Two external examiners have been engaged to moderate examination questions. The department has been training young men and women in the practice and theory of mass communication in the past few years. The lecturers have been using mentoring strategies to impart knowledge into the students and they have also adopted effective communication styles and techniques to equip the students for the task of disseminating information to the entire world.

VISION

The vision for a degree programme in Mass Communication is informed by that of Igbinedion University, Okada, which is to be a centre of academic excellence through teaching, research and knowledge production in response to contextualized national and global needs.

MISSION

The missions of a Bachelor degree in mass communication in the College of Arts and Social Sciences, in line with that of Igbinedion University, are to:

(1) Pursue excellence in teaching, research and scholarship through the provision of world class facilities and opportunities for education, training and employment to all those who are able to benefit without any form of discrimination and

(2) Enhance human advancement, prosperity and public welfare through teaching, research and outreach programmes that encourage application of knowledge, promote discipline and emphasize entrepreneurship and manage resources effectively to achieve these aims.

CORE VALUES

The core values of the Mass Communication Department are also in line with that of the Igbinedion University, Okada which are:

Seeking excellence, intellectual freedom, freedom of expression, integrity and high moral value

PHILOSOPHY

The basic philosophy of Bachelor of Science Degree in Mass Communication at the Igbinedion University, Okada is to produce knowledgeable and ethically sound communicators that will be well endowed with an equilibrium approach between theory and practice of mass communication, and the ethical requirements and professional standards of journalism profession. The philosophy is also to design and formulate an educational structure that will assist in reaching the set goals and aims as enshrined in Nigeria’s National Policy on Education (NPE).

OBJECTIVES OF MASS COMMUNICATION DEPARTMENT, IGBINEDION UNIVERSITY, OKADA
The major objectives of the mass communication department, Igbinedion University, Okada are:

1. to set a high standard of scholarship in the study of mass communication

2. to train the students to acquire appropriate communication skills for effective transmission of values, information, beliefs, customs, traditions and ideas to a large, heterogeneous and anonymous audience within the context of media technology.

3. to enlist the cooperation of the students who are studying communication courses theoretically and practically at Igbinedion University, Okada in the struggle to developing mass media industry in Nigeria.

4. to use acquired knowledge of mass communication as required in communication industries and

5. to develop moral and spiritual values in interpersonal and human relations

PHILOSOPHY, AIMS AND OBJECTIVES OF THE PROGRAMME

1. To offer an undergraduate professionally oriented programme for the aspiring Nigerian Journalists, Communicators, Broadcasters, Public Relations and Advertising practitioners.

2. To train and retrain Nigerian Journalists, Broadcasters, Public Relations and Advertising practitioners for leadership positions in the mass media organizations in Nigeria and the world

3. To raise and sustain the professional status of journalism in Nigeria

4. To bridge the divergent perspectives of news gathering and dissemination

5. To provide the Mass Communication students with the opportunity to master the art of communicating with the masses that transcends all disciplines, whether in writing or broadcasting for an on-line website at 9.pm daily, news casting or writing a speech for company Chief Executive Officer or writing Advertising or Public Relations copy to sell or promote a product to the masses.

6. To instill in the mass communication students the ability to respect deadlines and work under constant pressure.

7. To train and encourage Nigerian communicators to be effective communicators by being able to think quickly, research creatively and write or broadcast concisely to the mass audience.

8. To train Nigerian media men and women that would act as the trustees of the public trust and that would be socially responsible to the communities they serve by being accurate, fair, balanced and objective in their reportage of societal issues.

9. To produce Nigerian mass communicators who will continue to protect the basic principles of the peoples’ right to know as the fourth estate of the realm.

10. To train students who at end of degree programme in mass communication will be able to differentiate soft news from hard news, truth from falsehood and responsible journalism from irresponsible journalism and

11. To train students who at the end of the degree programme in mass communication will be equipped enough to establish his/her own newspapers, magazines, Public Relations outfits and advertising agencies, or radio and/or television stations

ADMISSION AND GRADUATION REQUIREMENTS
Qualifications for admission to Bachelor of Science degree in Mass Communication will generally be the same as for other Bachelor degree programmes in Igbinedion University, Okada. Admission will be based on academic performance in the School Certificate Examinations and University Matriculation Examination (UTME).

(a) Admissions

<table>
<thead>
<tr>
<th></th>
<th>O’-Level Requirements</th>
<th>Five O’ Level Credits in the senior secondary school certificate examination or in the General Certification examination (GCE) or national examination certificate (NECO) or their equivalents at one sitting or Six O’ Level Credits in any of the above-mentioned examinations at two sittings to include English Language and at least a pass in mathematics.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>University Tertiary Matriculation Examination (UTME) Requirements</td>
<td>Use of English, Literature in English and other subjects from arts and the social sciences</td>
</tr>
</tbody>
</table>
| 2 | Direct Entry (DE) Requirements | (a) Professional Diploma in mass communication at distinction or credit level from recognized Institutions.  
(b) Two ‘A’ Level passes. |

(b) Graduation

To graduate a student must have completed and passed the following number of units at each level:

<table>
<thead>
<tr>
<th>Level</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 LEVEL</td>
<td>36 UNITS</td>
</tr>
<tr>
<td>200 LEVEL</td>
<td>37 UNITS</td>
</tr>
<tr>
<td>300 LEVEL</td>
<td>37 UNITS</td>
</tr>
<tr>
<td>400 LEVEL</td>
<td>36 UNITS</td>
</tr>
<tr>
<td>TOTAL</td>
<td>146 UNITS including all compulsory courses specified.</td>
</tr>
</tbody>
</table>
AWARD OF THE BACHELOR OF SCIENCE DEGREE IN MASS COMMUNICATION WILL BE DETERMINED BY THE GENERAL REGULATION OF THE COLLEGE OF ARTS AND SOCIAL SCIENCE AT IGBINEDION UNIVERSITY, OKADA

The first degree in Mass Communication will be awarded in accordance with the regulations guiding courses to be taken in the 4-year Bachelor programmes in the College of Arts and Social Sciences. The regulations that govern the programme are as following: A programme of study shall be provided leading to the degree of Bachelor of Science to be denoted by the letter B.Sc., which may be awarded with an Honours or a Pass degree. Courses in mass communication are taken by instructions and demonstrations and students are required to take an approved combination of courses.

The courses are evaluated in terms of course units. A course unit is defined as one lecture/tutorial contact hour per week or three hours of practical class per week, throughout a semester, or an equivalent amount of other assigned study or practical experience or any combination of these. In the faculties/colleges of any University there are four levels of courses numbered 111-129, 211-229, 311-329 and 411-429. The courses numbers are prefixed by a three-character subject code such as: MAC for Mass Communication. The students are expected to register for their courses within the period prescribed by the institution. After registration they may add or delete courses provided this is done within six weeks of the commencement of lectures. The students shall be required to register for a prescribed minimum number of units in each academic session. The number of such units shall be approved by the Senate on the recommendation of the Board of College of Arts and Social Sciences. All students must register and pass General Studies Programme courses including the Communication in English.

All courses taught during each semester are examined at the end of the semester and students are credited with the number of course units assigned to the courses, which they have passed. The weighted grade points of all courses taken are used for the determination of the class of degree. {i.} the minimum number of course units for the award of the degree will be 146. {ii.} the degree will be awarded with honours provided a student obtains a Cumulative Grade Point Average that is not less than 1.50 and satisfies other minimum honours requirements. {iii.} for the award of a pass degree, a student must obtain the minimum number of units specified and the compulsory courses specified by the department.

The normal period of study for the award of an honour degree in the department is eight semesters. A student who has taken more than one academic session in excess of the approved minimum period of study to complete the degree programme will not be eligible for an honours classification. Such student will only receive a pass degree. The maximum number of semesters for an honours degree in the department is 10 while the maximum number of semesters for a pass degree is 14.

Transfer students from other Universities are expected to pass all the relevant compulsory courses and must have taken all relevant elective courses of the University to qualify for a degree of the institution. All courses done from other Universities will be converted to GPA scale that has been approved by the Senate and no admission will be made beyond the 300 level. A student who transfers from another College of the University will be credited with units, he/she has obtained from his/her Legacy College or department, which is relevant to the curriculum of the department of mass communication in Igbinedion University, Okada.
Grade used for students that complete the course of a subject satisfactorily by the end of the semester is given below:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Point</th>
<th>Mark Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>70 and above</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>60-69</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>50-59</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>45-49</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0-44</td>
</tr>
</tbody>
</table>

The Final Computation of the Degrees in Mass Communication for 100 to 400 level students will be as follows:

<table>
<thead>
<tr>
<th>Cumulative Grade Points Average and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50-5.00</td>
</tr>
<tr>
<td>3.50-4.49</td>
</tr>
<tr>
<td>2.50-3.49</td>
</tr>
<tr>
<td>1.50-2.49</td>
</tr>
</tbody>
</table>

If a student fails to obtain the minimum standard required, he will be warned or told to withdraw from the department. The minimum standard of the department is as follows: {i} **First Year**: If a student has less than 15 units he/she will be warned, but if he/she has less than 10 units he/she will be advised to withdraw. {ii} **Second Year**: A student with less than 30 units will be warned, but if he/she has less than 20 units he/she will be asked to withdraw. {iii} **Third Year**: A student that scored less than 45 units will be asked to withdraw. List of successful students in the degree examination will be published and classified as follows: First Class (Honours), Second Class (Honours) with Upper and Lower Divisions, Third Class (Honours) and Pass (the names in each classification will be arranged in alphabetical order).

Minimum Internal Degree Requirements of Bachelor of Science in

**Mass Communication Programme**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 111</td>
<td>Introduction to Mass Communication</td>
<td>2</td>
</tr>
<tr>
<td>MAC 112</td>
<td>Introduction to Nigerian Media History</td>
<td>2</td>
</tr>
<tr>
<td>MAC 113</td>
<td>African Communication Systems I</td>
<td>2</td>
</tr>
<tr>
<td>GTS 111</td>
<td>Communication in English I</td>
<td>2</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Units</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>GST 112</td>
<td>Communication in French I</td>
<td>2</td>
</tr>
<tr>
<td>GST 113</td>
<td>Logic, Philosophy and Human Existence I</td>
<td>2</td>
</tr>
<tr>
<td>GST 114</td>
<td>Nigerian People and Culture I</td>
<td>2</td>
</tr>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 114</td>
<td>Word Processing I</td>
<td>4</td>
</tr>
</tbody>
</table>

**1 ELECTIVE IN THE COLLEGE**

**1 ELECTIVE OUTSIDE THE COLLEGE**

**Total** 18

**100 Level Second Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compulsory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 121</td>
<td>Introduction to Visual Communication</td>
<td>2</td>
</tr>
<tr>
<td>MAC 122</td>
<td>Writing for Mass Media</td>
<td>2</td>
</tr>
<tr>
<td>MAC 123</td>
<td>African Communication Systems II</td>
<td>2</td>
</tr>
<tr>
<td>GST 121</td>
<td>Communication in English II</td>
<td>2</td>
</tr>
<tr>
<td>GST 122</td>
<td>Communication in French II</td>
<td>2</td>
</tr>
<tr>
<td>GST 123</td>
<td>Logic, Philosophy and Human Existence II</td>
<td>2</td>
</tr>
<tr>
<td>GST 124</td>
<td>Nigerian People and Culture II</td>
<td>2</td>
</tr>
<tr>
<td>GST 125</td>
<td>Use of Library, Study skills and ICT</td>
<td>2</td>
</tr>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 124</td>
<td>Word Processing II</td>
<td>4</td>
</tr>
</tbody>
</table>

**1 ELECTIVE IN THE COLLEGE**

**1 ELECTIVE OUTSIDE THE COLLEGE**

**Total** 20

**Total Units for year 1:** 38

**200 Level First Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compulsory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 211</td>
<td>Theories of Mass Communication</td>
<td>2</td>
</tr>
<tr>
<td>MAC 212</td>
<td>Editorial Writing</td>
<td>2</td>
</tr>
<tr>
<td>MAC 213</td>
<td>Features Writing</td>
<td>2</td>
</tr>
<tr>
<td>MAC 214</td>
<td>News Writing and Reporting</td>
<td>2</td>
</tr>
<tr>
<td>EPS 211</td>
<td>Entrepreneurial Studies</td>
<td>2</td>
</tr>
<tr>
<td>GST 211</td>
<td>History and Philosophy of Science</td>
<td>2</td>
</tr>
<tr>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 215</td>
<td>Specialized and Advanced Reporting</td>
<td>2</td>
</tr>
<tr>
<td>MAC 216</td>
<td>Introduction to Film, Cinema and Literature</td>
<td>2</td>
</tr>
<tr>
<td>Elective from the Department</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC 217</td>
<td>Foundation to Broadcasting</td>
<td>2</td>
</tr>
<tr>
<td>Elective from the College</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAA 215</td>
<td>Sociology of Mass Communication</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total** 20
### 200 Level Second Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 221</td>
<td>Speech Making, Critical and Reviewing Writing</td>
<td>2</td>
</tr>
<tr>
<td>MAC 222</td>
<td>Editing and Graphics of Communication</td>
<td>2</td>
</tr>
<tr>
<td>MAC 223</td>
<td>Foundation of Communication Research</td>
<td>2</td>
</tr>
<tr>
<td>MAC 224</td>
<td>Principles of Public Relations</td>
<td>2</td>
</tr>
<tr>
<td>MAC 225</td>
<td>Health and Population Communication</td>
<td>2</td>
</tr>
<tr>
<td>GST 221</td>
<td>Peace Studies and Conflict Resolution</td>
<td>2</td>
</tr>
</tbody>
</table>

**Required**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 226</td>
<td>Introduction to Publishing</td>
<td>2</td>
</tr>
<tr>
<td>MAC 227</td>
<td>Global Security, Conflict and Peace Reporting</td>
<td>2</td>
</tr>
</tbody>
</table>

**Elective from the Department**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 228</td>
<td>2</td>
</tr>
</tbody>
</table>

**Elective from the College**

| SAA 222B: Element of Psychology and Social Psychology | 2     |

**Total Units for Year 2:** 40

### 300 Level First Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 311</td>
<td>Media Attachment</td>
<td>2</td>
</tr>
<tr>
<td>MAC 312</td>
<td>International Communication and the World Press</td>
<td>2</td>
</tr>
<tr>
<td>MAC 313</td>
<td>Media and Society</td>
<td>2</td>
</tr>
<tr>
<td>MAC 314</td>
<td>Newspaper and Magazine Management and Production</td>
<td>2</td>
</tr>
<tr>
<td>MAC 315</td>
<td>Science and Technology Reporting</td>
<td>2</td>
</tr>
<tr>
<td>MAC 316</td>
<td>Advertising Campaign, Planning and Execution</td>
<td>2</td>
</tr>
</tbody>
</table>

**Required**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 317</td>
<td>Public Affairs Broadcasting</td>
<td>2</td>
</tr>
</tbody>
</table>

**One Elective from the Department**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 318</td>
<td>Book Publishing and the Law</td>
<td>2</td>
</tr>
<tr>
<td>MAC 319</td>
<td>Advertising Law and Ethics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total** 18

### 300 Level Second Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 321</td>
<td>Issues in Nigerian Mass Media History</td>
<td>2</td>
</tr>
<tr>
<td>MAC 322</td>
<td>Economics of News Reporting</td>
<td>2</td>
</tr>
<tr>
<td>MAC 323</td>
<td>Integrated Marketing Communication</td>
<td>2</td>
</tr>
</tbody>
</table>
### 400 Level First Semester

#### Compulsory
- **MAC 411**: Media Law and Ethics 2
- **MAC 412**: Data Analysis in Comm. Research 2
- **MAC 413**: Issues in Broadcasting 2
- **MAC 414**: Educational Broadcasting 2
- **MAC 415**: Documentary Film Production 2

#### Required
- **MAC 416**: Broadcast Station Mgt and Operations 2
- **MAC 417**: Economic and Social Issues in PR/Advert 2
- **MAC 418**: Organization and Mgt of PR/Advert Agencies 2

#### One Elective from the Department
- **MAC 419**: Case Studies in PR 2
- **MAC 420**: Advertising Copy and Layout and Production Techniques 2

**Total**: 20

### 400 Level Second Semester

#### Compulsory
- **MAC 421**: Media Attachment 2
- **MAC 422**: Drama and Documentary Production 2
- **MAC 423**: Rural Broadcasting 2
- **MAC 424**: Research Project 6

#### Required
- **MAC 425**: International Public Relations 2

#### One Elective from the Department
- **MAC 426**: Communication and National Development 2
- **MAC 427**: Media Organization and Mgt 2

**Total**: 18

**Total Units for year 4**: 38
COURSE DESCRIPTION

Years 1-4 during the academic training will give the students grounding in fundamental and core aspects of mass communication practice and theory, and will develop their individual aptitudes and interests. The creative expressions of the students will be developed through experimentation with media and processes, and through critical thinking and evaluation. The analyses of the courses to be offered are given below:

MASS COMMUNICATION PROGRAMME

100 Level 1st Semester Courses

Compulsory Courses

MAC 111: Introduction to Mass Communication - 2 units

The course will introduce the students to the meaning of communication, elements of communication process and types of communication. They will learn to classify mass media into: print and electronic media. The print media are: newspapers, magazines and books while electronic media include: radio, television, film, video games, the internet and the world-wide-web. The various characteristics of mass media and functions/roles of mass communication in the society will also be outlined. Other aspects of mass media to be treated include: patterns of media ownership, media content and message patterns, media theories and media effects: principles and theories, media freedom, regulation and ethical issues, and global media and its effects on human existence. The course will end with the survey of mass media and their adjuncts: public relations and advertising.

MAC 112: Introduction to History of Nigerian Media - 2 units

The course will deal with major stories, personalities and events that shape the development of mass media in Nigeria from the time that the first newspaper was published by Henry Townsend in 1859 to the introduction of radio in the 1930s and television in 1959 and the internet in the 20th century.

MAC 113: African Communication Systems I - 2 units

The course deals with pristine primordial African oral traditional communications and their structures: forms and contents; showing myriads of traditional examples. It surveys past and present media systems within the context of African culture.

GST 111: Communication in English I - 2 units

GST 112: Communication in French I - 2 units

GST 113: Logic, Philosophy and Human Existence I - 2 units
GST 114: Nigerian People and Culture I- 2 units

Required Courses

MAC 114: Word Processing I- 4 units

The students are to be acquitted with the instructions and the practices in typing electronically by using the computer systems, which will enable them to acquire the basic knowledge and skills that are essentials for budding journalists.

Elective Courses

1 Elective in the College

1 Elective outside the College

Total 18 units

100 Level 2nd Semester Courses

Compulsory

MAC 121: Introduction to Visual Communication- 2 units

The course is an introduction to the basic concept of artistic design in communication. Students will be introduced to the principles and elements of artistic design in communication, Meaning, characteristics and classification of type, type selection, and typeface and type composition.

MAC 122: Writing for Mass Media- 2 units

The course deals with instruction and practice in writing for the mass communication media with the major emphasis on development of the journalistic styles and proficiency in grammar and the use of journalistic language

MAC 123: African Communication Systems II- 2 units

The course further advance on other African oral traditional communications and their structures: forms and contents. It surveys traditional and modern media systems and compare and contrast them as well as look into their advantages and disadvantages within the context of African culture.

GST 121: Communication in English II- 2 units
GST 122: Communication in French II- 2 units

GST 123: Logic, Philosophy and Human Existence II - 2 units

GST 124: Nigerian People and Culture II - 2 units

GST 125: Use of Library, Study skills and ICT - 2 units

Required Courses

MAC 124: Word Processing II - 4 units

This course is a continuation of the instructions and the practices in typing electronically by using the computer systems. The course enables the students to acquire the basic knowledge and skills in the art of typing. This knowledge will be used in typing the manuscripts and raw data collected from the field.

Elective Courses

1 Elective in the College

1 Elective outside the College

<table>
<thead>
<tr>
<th>Total</th>
<th>20 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Units for year 1:</td>
<td>38 units</td>
</tr>
</tbody>
</table>

200 Level 1st Semester Courses

Compulsory Courses

MAC 211: Theories of Mass Communication - 2 units

The course deals with the meaning and characteristics of theory as well as specific types of theories, differences between human communication theory and mass communication theory, the communication process and communication models. The students will be introduced to four normative theories and two emergent normative theories and the social-scientific/media effect theories

MAC 212: Editorial Writing - 2 units

The students will do intensive work in the theory and practice of writing editorials and column based opinions. First, they will learn to define editorial and the four main parts of an editorial: title, introduction, body and conclusion; compare the structure of an editorial with those of the other types of journalistic writing: straight news and features; define persuasion; outline theories of persuasion
that are relevant to journalism; analyse the roles of persuasion in editorial (print) and commentaries (electronic); state the strengths and limitations of persuasions in commentaries and editorials; distinguish between persuasive editorials and commentaries such as expository, narrative, argumentative and commendation; discuss trends in editorial writing in Nigeria; discuss the relevance of propaganda in editorial writing and relevant propaganda techniques; outline functions of editorials; explain how the functions interrelate; distinguish between an editorial, opinion and column writing; determine the audience of editorials; explain the impact of editorials on the readers; describe the various approaches to editorial writing like expressive, objective, subjective etc; students are to write an editorial using the various approaches; define editorial board; explain the functions of editorial board; analyse the advantages and disadvantages of an editorial board; define column; analyse the main types of column: syndicated, in-house and guest; distinguish between editorials and columns; state the roles of column in print journalism; evaluate some editorials and columns published in the Nigerian press; students are to write a column on any issue of interest: religion, sports, politics, women, children, science, education etc.

MAC 213: **Features Writing**- 2 units

The course focuses on the nature of features writing in newspaper and magazine houses. The students will be familiarize with the elements of features writing, the contents of features stories, the structure of features articles and the difference between features writing, news writing and editorial writing. Other areas of focus will include: special features and profiles, interview features and profiles, features sidebar and features series, opinion columns, personal columns, service columns, travel guide, art reviews, special correspondents, language of features, how to write the features story, how to write the features intro, features sub-editor and writing task.

MAC 214: **News Writing and Reporting**- 2 units

The course will introduce the students to the activities and attributes of reporters. Attention will be given to structural elements of news room, definition of news, determinants of news, types and characteristics of news story and principles and techniques of news gathering and dissemination in both the print and electronic media as well as principles backing issuance of press release, theories of the press, regulation of mass media, universal press laws, contempt of court and parliament, ethical issues and press terminologies.

EPS 211: **Entrepreneurial Studies**- 2 units

GST 211: **History and Philosophy of Science**- 2 units

**Required Courses**

MAC 215: **Advanced Specialized Reporting**- 2 units

The course involves the techniques in advanced instruction and practice in writing news stories with emphasis on investigative reporting and other comprehensive reporting techniques. The students will be made to identify government policies on SAP, MAMSER, 6-3-3-4 system of education etc; they
will learn sources of news on government policies; analysis of the special problems and intricacies of reporting government policies; explain how to handle leaks and deal with Official Secret Act; write news on government policies; identify various social problems such as drug trafficking, child abuse, prostitution etc; state the dominant principles and techniques in reporting social problems like fairness, objectivity, balance etc; write in-depth news on social ills; discuss art news by identifying various popular arts; write stories about arts for newspapers and magazines; identify various specialized news situations like parliamentary, court/tribunals, labour, sports, health, education etc; write news on the aforementioned specialized areas; explain the principle and rationale for human interest stories; distinguish between human interest stories and other kinds of news; write human interest stories; define news analysis, news features and interpretation; prepare stories demonstrating knowledge of news analysis and news interpretation; define impressionistic reporting; explain the techniques involved in impressionistic reporting; identify the pitfalls in impressionistic reporting and write impressionistic news stories.

MAC 216: Intro to Film, Cinema and Literature- 2 units

The course deals with the evolutionary developments of film, cinema and literary productions. Focus will be on the history of pioneers of documentary films, film video editing, design, pre-production planning, production process and post-production. The students will also examine film as a medium of communication and the cinema as a communication setting with particular reference to literature and its various forms: the short story, novel, poem and drama. They will have an overview of the kinds of film: documentary (nonfiction) and avant-garde-the role of the cinema in urban and rural communities.

Elective Courses

Elective from the Department

MAC 217: Foundation to Broadcasting- 2 units

The students will have an overview of the physical, technical and societal bases of radio and television broadcasting. They are to relate the laws of nature that make broadcasting possible as well as the scientists who exploited them and describe the individual items or equipments used in radio and television and survey the diverse environment of broadcasting stations and networks.

Elective from the College

SAA 215: Sociology of Mass Communication- 2 units

The course explains why a human society can be regarded as a system by first defining the words social system. The following factors will be explained to put the course in the right perspective: positioning mass media as a sub-system of the social system; explaining how the activities of a mass media practitioners can be perceived in systemic terms; discussing the various characteristics of systems; stating the similarities and differences of the systems discussed; explain how the characteristics combine to maintain the system. Focus will be on socialization factors while the social institutions that contribute to the process of socialization of the mass media are enumerated; the role of the mass media in the socialization process will be explained; the value of socialization of the mass media will be discussed; the relationship between the mass media and other social institutions like the family, church, hospital etc; will be analyzed. The aspect of professional socialization will be
explained; how the structures and professional hierarchies of the newsroom and other work units of mass media organizations contribute to the socialization of professional communicators; evaluate the roles of training; codes of ethics and mass media policies in the socialization of professional communicators; discuss the extent to which external forces such as government policies, existing laws, pressure groups and mass media audiences contribute to the socialization of professional communicators; analyse the importance of proper socialization of professional communicators in the nurturing and sustenance of a dynamic, free and responsible press; discuss how improvement in the professional socialization of communicators can be attained. The students will learn the influences of socialization on mass media gate-keeping; analyse the various types of media policies that professional communicators have to work with; explain how mass media policies influence the news and other editorial content; give examples of how and why newsroom relationship and professional norms influence the content of the mass media.

Total 20 units

200 level 2nd Semester Courses

Compulsory

MAC 221: Speech Making, Critical and Reviewing Writing - 2 units

The course introduces students to the historical context of speech communication, basic principles of speech communication, types of speech and steps towards quality speech making and writing- oratory, logic, language and styles in speech making and writing. The students will also be made to do critical and reviewing of selected speeches of great leaders in the world.

MAC 222: Editing and Graphics of Communication - 2 units

The course will introduce the students to the concepts of graphic design, the principles and elements of designs in communication, principles of composition in design, page planning, typography, make-up techniques, editing process and editing symbols as well as picture treatment: captioning and cropping of photographs.

MAC 223: Foundation of Communication Research- 2 units

The course introduces the students to data gathering methods in journalism and mass communication and enables them to analyse research data and critically evaluate any piece of journalistic writing or social science research. Another objective is to help the students to apply the learnt methods in carrying out research projects.

MAC 224: Principles of Public Relations- 2 units
The course deals with definition, concepts, theories and practice of Public Relations and Public Affairs and the importance of PR in either profit or non-profit organizations. It deals with relationship and differences between PR and advertising. Other areas of focus are: managing Customer Relations; Working with the media; understanding public opinion and crisis communication.

MAC 225: **Health and Population Communication** - 2 units

The course examines the role of communication within the context of human health, birth rate, death rate and human sexual relations, as well as the factors responsible for constant increase in human population, the rural-urban drift and its implications on human social relation and politico-economic development. Students will be acquainted with health communication strategies, such as: posters, billboards, drama sketch, radio programmes, mass mobilization programme etc that can be adopted as preventive mechanisms for the control of communicable diseases and deadly diseases such as AIDS, hypertension, diabetes and cancer, among others. Focus will be on the appropriate communication tools such as: transit media- that can be used to disseminate information to urban and rural dwellers on the causes of infant and maternal mortality rate, as well as birth and population control and the role of Non-Governmental Organization in the development of community health. The issue of census will be discussed with focus on its importance, functions and economic importance.

GST 221: **Peace Studies and Conflict Resolution** - 2 units

The course focuses on the major causes of conflicts and the ways of resolving them. The aim is to provide a platform for a peaceful society by discussing the concepts and theories of peace as well as concepts and theories of conflict. The students will learn the peaceful method of handling conflicts and non-peaceful method of handling conflicts. Cases of conflicts will be treated by looking at the origin and factors of the conflicts and the mechanisms used.

**Required Courses**

MAC 226: **Introduction to Publishing** - 2 units

The course examines book publishing as a cultural activity and as a business: the business environment of book publishing focusing on environment analysis using the SWOT analysis method in business organizations. The focus will be on book publication as a mass industry: divisions of the industry and a critical look at the publishing process, industry activities and associations.

MAC 227: **Global Security, Conflict and Peace Reporting** - 2 units

This course focuses on the concept of news reporting for global security, conflict management and peacemaking within the context of African, Asian and Western cultures. The concept of the word: Reporting should be given in order to put the term in the right operational perspective. The students’ attention will be drawn to the structural elements of news-stories, definition of news and nature of news: news judgement, news values and determinants of news; types and rudiments/characteristics of
news story as well as principles and techniques of news gathering. Elements and formats for writing security, conflict and peace news in both the print and electronic media will be discussed. The message patterns for this type of news analyses will follow the standard parameter used in the traditional news coverage and the media content for this type of news story will showcase the existing topics on security, conflict and peacemaking around the world. Among such topics are: Concept of human security, conflict and internally displaced persons, peace enforcement, meaning of disarmament, public safety system, security and violence, refugees, crisis management, crisis bargaining, war and its resolution, peace-making and peace-sharing, disarmament, demobilization, and reintegration, decision making in crisis situation, and mechanisms of conflict prevention, management and resolution. Emphasis will be on the electoral, political and religious impasse that had ravaged Nigerian society since independence in 1960. Other issues to consider include: theories of the press, regulation of mass media, universal press laws, contempt of court and parliament and ethical issues of the press that are relevant to conflict situations within the global context.

Elective Courses

Elective from the Department

MAC 228: Introduction to Advertising - 2 units

The course deals with the definitions of advertising; types and functions of advertising; history and development of advertising in Nigeria; structure of advertising industry: agency clients and media; development of advertising agencies; functions of the advertising manager; the advertising brief: writing and assessing advertising proposals; advertising process: how ads work; role of advertising in marketing; career development in advertising and advertising training and education

Elective from the College

SAA 222B: Element of Psychology and Social Psychology - 2 units

The course focuses on the differences between psychology and social psychology; theories and methods of motivation; relevance of social psychology to mass communication. The specialization and fields of psychology will also be discussed in the class.

<table>
<thead>
<tr>
<th>Total</th>
<th>20 units</th>
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</thead>
<tbody>
<tr>
<td>Total Units for year 2:</td>
<td>40 units</td>
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</table>

300 Level 1st Semester Courses

Compulsory Courses
MAC 311: Media Attachment - 2 units
The students are to do the media attachment in order to understudy the operations of the media organizations and they are to submit a comprehensive account of their experience during this industrial training programme.

MAC 312: International Communication and the World Press - 2 units
The course examines the world press system; the flow of information, the agency news and different news agencies in the world: their nature and functions, issues and ideologies surrounding the establishment of the agencies, and how culture and economy shaped communication across borders. The students are to learn various definitions of international communication; distinguish between international communication and various types of communication like intercultural communication; discuss the important models of international communication; trace the history of international communication from the developing world’s perspective; describe how this history affects modern international communication; explain global news and the developing countries’ concept of news flow as well as the soviet concept of news flow; discuss the western concept of news flow and analyse the problems caused by these differences in international news perspective; state the functions of cables, radio, television, satellites, facsimiles, newspapers, magazines, laser computers etc as vehicles of international communication; evaluate how the media, in those mentioned above, have served as a means of communication among nations; explain the concept of free and balanced flow of information; analyse the concept of the global village by McLuhan; explain the communist political perspective of media and cultural imperialism on global communication; discuss the developing countries’ position on global communication with particular reference to development communication; state how the global news agencies emerged e.g. Reuters, TASS, AFP, AP, UPI, Kyodo etc; analyse the trends in modern news agency operations and the problems of international news agencies; state how the problems can be solved; analyse the developing countries news agencies e.g. NAN, and their roles and discuss the history, ownership, function, problems and prospects of the News Agency of Nigeria; list and discuss the major international communication organizations such as IBU, ITU etc; and discuss their history and problems; trace the history of information and communication order debate and explain the developing countries’ position on the debate; state the western perspective of NWICO debate and the eastern perspective on the debate; explain the concept of cultural imperialism/cultural invasion in international communication; analyse the problem of ideological differences in international communication; evaluate the problems of new communication technologies and analyse the problems of trans-border data flow.

MAC 313: Media and Society - 2 units
The course introduces students to communication process; traditional and modern means of communication; the mass media: classification and characteristics; functions of mass media and theories of the mass media. There will be an overview of the mass media in Nigerian society and focus will be on media ownership and control; press freedom in Nigeria; press council and Nigerian social structure. Other factors to examine include: culture and the mass media; social change and mass media; cultural imperialism and media dependency; globalization and the media; technology and the media; social institutions and the mass media; social effects of the mass media; mass media and economy; media and governance; media ethics in Nigeria and mass media and development

MAC 314: Newspaper and Magazine Management and
Production- 2 units
The course deals with the basic management and economic theory and application of theory to the management process in the newspaper business and the application of theories of economics and management to the management of general and specialized magazines. Students will process editorial materials and produce the MASSCOPE.

MAC 315: Science and Technology Reporting - 2 units
The course deals with the reportage of science and technology that are related to mass media, how they were introduced, their impact on the socio-economic development of the world, the role they played in making the world a global village and their impact on mass communication process.

MAC 316: Advertising Campaign, Planning and Execution - 2 units
This course is designed to familiarize the students with different roles played by the key actors in the planning and execution of advertising campaigns. It is also aimed at teaching the students how to practice and how to play these roles.

Required Courses

MAC 317: Public Affairs Broadcasting- 2 units
The course deals with critical examination of the structure, internal dynamics and functions of the news and current/public affairs division of broadcasting organizations. The students will treat the aspect of interpretative reporting of government and public institutions and agencies and production of current/public affairs discussions, news magazines and documentaries. The students will be assigned to carry out a documentary project on the socio-economic life of their immediate environment.

Elective Courses
One Elective from the Department

MAC 318: Book Publishing and the Law- 2 units
This course is an in-depth study of those aspects of the law basic to book publishing with emphasis on libel, copyright, national security, privacy etc. Attention will be given to the attendant ethical considerations.

MAC 319: Advertising Law and Ethics- 2 units
The study focuses on structure of advertising regulation and control: legal and voluntary mechanisms; basic law and ethics; elements of business law; law of contract; liability in tort; pertinent torts in advertising: defamation, copyright, passing off, negligence, invasion of privacy, obscenity, and decency etc; code of ethical conduct; guidelines on advertising of tobacco products, alcohol, beverages, food, drugs, cosmetics, financial institutions, political advertising etc; role of government agencies; regulatory bodies: origin, structure and functions; role of professional associations: AAAN, BON, MPAN, OAAN, ADVAN etc; ethical problems: direct media buying, media broke age etc

Total 18 units

300 Level 2nd Semester Courses

Compulsory Courses
MAC 321: **Issues in Nigerian Mass Media History** - 2 units
The course will focus on dynamics of mass media from 1859 when the first newspaper was published and political, legal and ethical issues that occurred in the history of the press till date. Focus will also be on historical antecedents, dynamism of media practitioners, how newspaper, radio and television came into existence and their developments, role of political cartoons in the development of Nigerian press, freedom of the press, access to information, censorship, closure of media, disclosure of sources of information and ban on importation of materials for production.

MAC 322: **Economics of News Reporting** - 2 units
Much of what passes for economics of news reporting in the Nigerian news media is written by economists for economists. The course aims at preparing the students to write up and analyse issues relating to the economy for a mass audience. A basic course in economics is desirable, but not essential. Students offering this course should have successfully completed advanced reporting course.

MAC 323: **Integrated Marketing Communication** - 2 units
The course deals with perspectives of integrated communications; elements of promotional strategy: publicity, personal selling, sales promotion, public relations; promotional strategy plans: objectives, target audience, message development etc; management of personal selling; consumer promotion: trends and tactics; marketing public relations: fund raising, lobbying, promoting politicians, campaign management; event management; issues marketing: information, education and communication strategy (IEC); marketing politics: the integrative approach; corporate communication strategy and legal and ethical consideration in marketing communications.

MAC 324: **Screen Directing** - 2 units
The course deals with film production and theories of directing dramatic forms and acting. The latter—theories of directing dramatic forms and acting—will be examined through lectures, demonstrations and applied exercise to establish theoretical and practical foundations.

**Required Courses**

MAC 325: **Investigative and Interpretative Reporting** - 2 units
The course is designed to teach the students the basic methods of investigating and interpreting news events. Investigative reporting will be defined; the purpose of investigative reporting will be stressed; investigative prone issues like government policies, tax evasion, disaster, epidemic etc will be examined; the process of investigative reporting like research, interview and independent probe will be treated; strategies of investigative reporting will be outlined, evaluated and discussed; ethical and legal implications of investigative reporting will be treated and students will be assigned to carry out investigative reporting within their locality. Interpretative reporting will be defined; the purpose of interpretative reporting will be stated; interpretative issues will be examined; the process of interpretative reporting will be described; the approaches to interpretative reporting will be outlined, evaluated and discussed; ethical and legal implications of interpretative reporting will be explained and students will do myriads of assignments by using interpretative reporting techniques.

MAC 326: **Photo Journalism and Picture Editing** - 2 units
The course deals with practical introduction to news photography; basic camera and darkroom techniques. It deals with photojournalists’ sensitivity to peoples’ circumstances and events to which he/she is expected to take pictures that communicate. The students will learn fundamentals of photography, operation of different cameras, photographic processes and the use of standard photographic equipments and materials in the photo laboratory. The course equally deals with photo reporting. Emphasis will be on pictures that communicate with aesthetic as well as technical skills.
Students are to be taught the techniques of photogram and photo essay. There will be a study of technical and aesthetic qualities of photographs and how these factors affect editorial decisions concerning the use of pictures in publication. Practical work in layout and design and other duties of a newspaper and magazine picture editor will be treated.

MAC 327: Rural Community Newspaper- 2 units
The course will focus on prospects and challenges facing rural newspapers with attention to the role and qualities of newspaper production. The students will be taught how to analyse national systems of print journalism worldwide and how they have affected local press; how to identify grassroots information seekers, information carrier, information indifferent and rumour carrier; major divisions of community newspapers; functions of the editor and other staff of community newspaper; identify the revenue sources for the community newspaper; departmentalization of community newspaper; describe the front and back pages of a community newspaper; explain the localization of news in community newspaper; describe the letter press, offset, gravure, stenciling, and other printing methods; explain lithography and plate making process; process a community newspaper for production; explain the process of circulation and marketing of community newspaper.

Elective Courses
One Elective from the Department

MAC 328: Advertising and PR Research- 2 units
This course applies quantitative and qualitative research methodologies within the context of advertising and public relations. Emphasis will be on budget, copy and media research.

MAC 329: Film Theory and Aesthetics- 2 units
The course introduces students to film, cinema and literature and film production. It explores film as extension of photography. There will be systematic consideration of the basic aesthetic principles, photographic approach, affinities and art. There will be analysis of the properties of the film medium with regard to the realistic tendency and formative tendency, or realism as exemplified by the Lumiers brothers and expressionism as exemplified by Melie and the clashes/compromises between both. The issues of film/cinema as an art will be treated.

Total 18 units
Total Units for year 3: 36 units

400 Level 1st Semester Courses

Compulsory Courses

MAC 411: Media Law and Ethics- 2 units
The course focuses on the study of the legal framework within the context in which mass media operate. Special focus will be on law of defamation: libel and slander, differences between libel and slander, elements of libel, types of libel; list and explain defenses in libel; law of sedition in Nigeria; define sedition and explain criminal libel; contempt of court/contempt of parliament; types of contempt; sanctions that can be imposed by court or parliament for contempt; law of copyright; law of protected/prohibited space; list some prohibited spaces; official secrets act; invasion of privacy-snooping; disclosure of sources; confidential information; freedom of information bill; restrictions on reportage of divorce and ancillary proceedings and children, indecent details proceedings and taking of
photographs in court; obscenity law and legal pitfalls. The students will learn about issues bordering on ethics and morality; ethical theories and factors responsible for the moral development of individuals; ethical problems in journalism profession; ethical issues involving journalists and members of the society and ethical mechanisms that are available to profession journalists.

MAC 412: Data Analysis in Communication Research- 2 units
The Students will be exposed to data analysis tools such: content and quantitative analyses; the latter involves the use of questionnaires, tables, graphs, frequency distribution, charts for presentation, measure of central tendency, mean, median, mode, comparison of measures, measure of dispersion: range, standard deviation, variance, skewness as well as test of hypothesis. The students will also be exposed to inferential statistics: statistical testing, correlation and regression, probability theory and uses of computer in quantitative analysis.

MAC 413: Issues in Broadcasting- 2 units
The course will be based on survey of critical perennial issues and contemporary matters that can generate debate and controversies in broadcasting such as sex, violence, political and economic control.

MAC 414: Educational Broadcasting- 2 units
The course will do a critical assessment of educational potentials and limitations of radio and television stations. It will evaluate the pedagogic approaches and production of education programmes.

MAC 415: Documentary Film Production- 2 units
The course deals with the evolutionary developments of film production. Focus will be on the history of pioneers of documentary films, film video editing, design, pre-production planning, production process and post-production.

Required Courses

MAC 416: Broadcasting Station Mgt and Operations-2 units
The course will focus on the analysis of the nature and process of management and organization as well as the skills required for managing a broadcasting station.

MAC 417: Economic and Social Issues in PR/Advert-2 units
This course focuses on the study of advertising and public relations as institutions; the laws and ethics governing the profession in Nigeria as compared to developed countries like United States of America and Britain; self regulation by practitioners and professional associations; consideration of social responsibility, truth and deception and consumerism, among others.

MAC 418: Organization and Mgt of PR/Advert Agencies- 2 Units
The course deals with how to set up and effectively run advertising and public relations agencies. The students will acquire consulting and entrepreneurial skills in the areas of advertising and public relations.

Elective Courses
One Elective from the Department

MAC 419: **Case Studies in Public Relations** - 2 units
This course is designed to sharpen the ability of the students in assessing public relations problems and offering solutions. The students will be trained to identify public relations policies and practices in various organizations; to identify the sources of public relations problems in various organizations; to analyse possible effects of the problems in the various organizations discussed. The course will go further to acquaint the students with myriads of case studies in public relations organizations; to analyse case studies; to identify specific problems in public relations case studies; to prepare solutions for the case studies. The students will present case studies emanating from Nigeria e.g. NEPA, NTA, Nigeria Airways, the Police etc; they will list areas for public relations case studies and analyse public relations cases drawn from their locality. The students will identify areas for public relations case studies; they will draw up a public relations programme to solve the problems emanating from the case studies; the lecturer will supervise the execution of the PR programme that is drawn by the students and evaluate the success of the execution. The students will finally write group and individual reports; present group and individual reports and evaluate the group and individual reports.

MAC 420: **Advertising Copy, Layout and Production Techniques**- 2 units
The course focuses on the nature of advertising writing; copyright principles; copy strategy; copy format and layout; writing copy for newspapers, magazines, outdoor, radio and television and web advertising; design principles; stages of advertising layout; designing for various media; introduction to various digital layout programmes; photography and lithography; printing methods/processes; production techniques for print media; production techniques for radio and television and role of computer in modern advertising production.

Total 20 units

400 Level 2nd Semester Courses

Compulsory Courses

MAC 421: **Media Attachment**- 2 units
The students are to do the media attachment in order to understudy the operations of the media organizations and they are to submit a comprehensive account of their experience during this industrial training programme.

MAC 422: **Drama and Documentary Production**- 2 units
The course deals with overview of special problems involved in producing drama and documentary for radio and television; blocking; casting; budgeting; performance. The focus will only be on drama or documentary for both radio and television or both drama and documentary for only radio and television.

MAC 423: **Rural Broadcasting**- 2 units
The course analyses the community needs and problems with regards to the role and qualities of radio and television. It deals with planning of community development projects for implementation through special radio programmes; programme production and evaluation research.

MAC 424: **Research Project**- 6 units
The students are to initiate and execute a project of interest in the field of mass communication; they must follow the steps in the research methods they have learnt during the period of their academic studies in the University.

**Required Courses**

MAC 425: **International Public Relations** - 2 units
The course focuses on the analysis of trends, issues and problems confronting public relations in multinational corporations and other organizations involved in international trade and business.

**Elective Courses**

*One Elective from the Department*

MAC 426: **Communication and National Development** - 2 units
This course is designed to enable the students have an insight into the role of communication in the national development process. The students will learn how to define the term: national development; learn to distinguish between a more developed and less developed nation and to explain the major characteristics of a less developed nation. The students will equally learn the definition of the concept: development communication; distinguish between development communication and other forms of communication e.g. interpersonal, intrapersonal, group, international and intercultural. They will trace the historical foundation of development communication and analyse the rationale behind development communication. The students will treat the basic functions of development communication and list the functions such as: loudspeaker, reformer, organizer, equalizer, enricher, accelerator, legitimizer, researcher, mobilizer, informant and educator; they will equally appraise all the functions listed above. The lecturer will teach the students the theories of development communication; explain the instructional design strategies and the principles of selectivity that embraces acceptance, perception, rejection, avoidance, retention etc; explain the participatory theory and analyse social marking strategy. The students will learn how to determine when and how to use interviews, talk shows, drama, short stories, poetry, posters and magazine programmes in development communication and they will practice the technique to show understanding of the subject. The lecturer will discuss the major obstacles to development communication such as poverty, transportation, conceptualization, training, funding, ignorance, illiteracy etc. The students will carry out projects on any of the following topics: (1) communication and primary health care (2) communication and rural development (3) communication and education (4) communication and agricultural development (5) communication and family planning (6) communication and rural/urban migration and (7) communication and urban congestion.

MAC 427: **Media Organization and Mgt** - 2 units
This course is designed to familiarize the students with the philosophies, principles and techniques of organization and management of mass media industries. The students will be made to describe the structural organization for a typical magazine or newspaper organization; explain how to organize or structure typical radio, television and film houses; explain how to organize book publishing, public relations and advertising agencies; prepare an organogram for any of these media organizations; identify the various philosophies and theories and differentiate between the theories and philosophies; explain how to manage personnel in media organizations e.g. editorial, technical and administrative; identify the different departments in newspaper and magazine establishments and state how the various departments relate to each other and explain the organizational structure of each department; explain interpersonal communication in print media management; define group dynamics in print media management; explain communication lines in print media management and assess group influence in print media organizations; explain various newspaper and magazine policies; state the
principles of management relevant to newspaper and magazine production and outline the strategy of funding; state the functions of the advertising department; state the functions of the circulation department; identify other sources of revenue for the print media; explain the cost reduction techniques in newspaper and magazine production; explain the relationship between media houses and commercial establishments; identify the departments in a radio station; identify the different departments in a television station; state how the various departments relate to each other and explain the organizational structure of each department. Explain interpersonal communication in broadcast media management; define group dynamics in broadcast media management; explain communication lines in broadcast media management and assess group influence in broadcast media management; explain various broadcast media policies; state the principles of programming in management and analyse the strategy of timing in programmes; state the functions of the commercial department; explain the relationship between media houses and commercial establishments; identify other sources of revenue for the stations and explain cost reduction methods in production.

<table>
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<tr>
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### Units to Complete before Graduation

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<tr>
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<tr>
<td>Year Two</td>
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<td>Year Four</td>
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<td>Total</td>
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<td>146 units</td>
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### Department of Mass Communication Academic Staff

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<thead>
<tr>
<th>S/N</th>
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</tr>
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<tbody>
<tr>
<td>2.</td>
<td>Chris Odoemelam</td>
<td>B.A, M.A., PhD</td>
<td>L/I-F/T</td>
</tr>
<tr>
<td>3.</td>
<td>Bayo Oloyede</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Prof. P/T</td>
</tr>
<tr>
<td>4.</td>
<td>Andrew Ate</td>
<td>B.A., M.A., PhD</td>
<td>S/L-P/T</td>
</tr>
<tr>
<td>5.</td>
<td>Samaila Mande</td>
<td>PGD, M.Sc., MBA, PhD</td>
<td>A/P-P/T</td>
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<tr>
<td>6.</td>
<td>Olise Prosper</td>
<td>B.A., M.A., M.Sc., PhD</td>
<td>S/L-P/T</td>
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<tr>
<td>7.</td>
<td>Pius Omole</td>
<td>B.A., M.A.</td>
<td>L/I-F/T</td>
</tr>
<tr>
<td>8.</td>
<td>Melody Airen</td>
<td>N.C.E. B.Sc., PGD, M.Sc.</td>
<td>L/II-F/T</td>
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Key:

Prof=Professor, A/P= Associate Professor, S/L= Senior Lecturer,
L/I=Lecturer I, L/II=Lecturer II, A/L=Assistant Lecturer,
P/T= Part-Time, F/T=Full-Time

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

Introduction
The Department of Political Science & Public Administration of Igbinedion University as one of the foundation departments of the university is a unique department that from its inception has charted distinct pathways to academic excellence. It has programmes which are broad in scope, open and accessible to all. The Department from its inception in October 1999 developed a programme that transcended the traditional restrictions of learning in similar departments in other Universities, thus transcending all social divides of the time. It is truly a department for anyone who is qualified and open to study in its core vocational areas. The Department today is a comprehensive research department that interweaves the main elements of similar departments of any Ivy League university with an unusually strong public service mission. Many words can be used to describe the nature of this Department as a whole: complex, creative, entrepreneurial, eminent, and engaged.

Programmes of study are available at both Undergraduate and Postgraduate levels. At the Undergraduate level, our curriculum covers subjects in the fields of Political Science including Comparative Politics, Public Administration, Political Philosophy, International Relations and National Government.

At the Postgraduate level, we offer (i) Masters of Science in Political Science with specialization in either of Comparative Politics, Public Administration and Political Theory; (ii) Postgraduate Diploma in Public Administration; (iii) MPhil/PhD; and (iv) PhD in all of the fields of Political Science.

Objectives
The objectives of the Department of Political Science and Public Administration are to:

(a) Produce high level manpower relevant to the needs of both the public and private sectors bureaucracies;
(b) Acquaint and students with in-depth understanding of the principles, theory and practice of politics and administration;
(c) Foster the nurturing, imbibing and sustenance of acceptable democratic principles through the training of necessary manpower for both the private and public sectors of the economy;
(d) Train students to be interested in the pursuit of knowledge and skills and so endeavor for higher degrees and knowledge. In this regard, we provide necessary basis for such pursuit;
(e) Produce students who would contribute their quota towards the integral development of the country.
# LIST OF UNDERGRADUATE COURSES
## 100 Level
### FIRST SEMESTER

<table>
<thead>
<tr>
<th>S/ N</th>
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<td>1</td>
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<td>Introduction to Political Science</td>
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From: College of Arts & Social Sciences

**SUB-TOTAL** 21

### SECOND SEMESTER

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From: College of Arts & Social Sciences

**SUB-TOTAL** 21

**OVERALL TOTAL** 42

**KEY:**
- **C** = Compulsory: Courses that **must** be passed **before proceeding**
- **R** = Required: Courses that **must** be passed **before graduating**
- **E** = Elective: Courses that **should** be passed **before graduating**

## 200 Level
### FIRST SEMESTER

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### SECOND SEMESTER

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**OVERALL TOTAL** 38

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**OVERALL TOTAL** 50

**KEY:** C = Compulsory   R = Required   E = Elective
### 300 Level

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<td>History of Political Thoughts I</td>
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**SUB-TOTAL** 18

**SECOND SEMESTER**

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**SUB-TOTAL** 16

**OVERALL TOTAL** 34

**KEY:**

- **C** = Compulsory
- **R** = Required
- **E** = Elective
### 400 Level

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**OVERALL TOTAL** 32

**KEY:**

- **C** = Compulsory
- **R** = Required
- **E** = Elective
COURSE DESCRIPTION (Undergraduate)

100 LEVEL

Core Courses

POL 111: Introduction to Political Science  Credit Unit: 3
This course introduces students to the nature of politics and how it is studied. It emphasizes the issues of political discourse and practice. It also introduces students to the language and basic concepts of Politics. The student is later introduced to the methods of Political Science.

POL 112: Nigerian Constitutional Development  Credit Unit: 2
The student is taken through Nigerian Constitutional Development in a chronological and sequential order. In this course, emphases are on topics like colonial constitutions such as the Richards Constitution, the McPherson Constitution, the Littleton Constitution; and post-independence constitutions like the Independence Constitution of 1960, the Republican Constitution of 1963, the 1979 Constitution, the 1989 and 1999 Constitutions. Each constitution will be examined based on the background to its making, basic provisions or features, landmarks/merits and failure/demerits.

POL 121: The Citizen and the State  Credit Unit: 3
The course focuses on the reciprocal relationship between the state and the citizens; it introduces students to the concepts of State and Citizenship including the relevance of duties and obligations of the citizen to the state as well as the responsibility of the state to the citizen. Issues of rights, freedom and patriotism are in focus.

POL 122: Organization of Government  Credit Unit: 2
The course introduces students to various ways of organizing governments such as models of Legislature, Executive and Judiciary; discussions on forms of political and administrative system such as Unitary, Federal and Confederal; as well as systems of government like Monarchism, Parliamentarianism and Presidentialism; and instrumentalities of political interactions like political parties, pressure groups, interest groups etc.

Required Courses

POL 113 & 123: Nigerian Legal System I & II  Credit Unit: 4
This course introduces students to the concept of law and legal system as the basis of state organization. It traced the evolution of Nigerian Legal System beginning with the pre-colonial period in terms of treaties, charters and conventions used in administration, to legal system under the British colonial rule and finish with post independence Nigeria legal system. The course will also look at issues of fundamental human rights, citizenship and rule of law in Nigeria.

POL 114: Introduction to Management  Credit Unit: 2
Introducing students to conceptual issues in management and administration including; theories and practice of management, leadership theories, organizational structure, personnel issues, including staffing, motivation and study of organizational theories.
POL 124: Introduction to Public Administration       Credit Unit: 2
Study the rationale of public administration and the ecology of public administration; the politics of administration; the administrative actor, delegation of power and administrative audit; and control elements of administrative law.

200 LEVEL

Core Courses

POL 211 & 221 Nigerian Government and Politics       Credit Unit: 6
The evolution of Nigerian State; from the pre-colonial history through the periods of European penetrations from the Explorers, Missionaries to the Colonialists; colonial state formation and colonial administrative system; Nationalism and political independence; democracy, federal practice and the Military in government and politics; critical issues in Nigerian Politics such as Ethnicity, Religion, Gender, Elections, Representation and the Economy.

POL 212: Introduction to Political Analysis       Credit Unit: 2
The nature of politics, political systems and the structure of government, political representation and institutions of different regimes, the relationship between regime types and political efficiency, citizen’s participation and political culture.

POL 214: Introduction to International Relations       Credit Unit: 2
The nature of the International Society, the concept of state and non-state actors, the theories of International Relations, linkage politics; theories of Coalitions and Alliances, Balance of power and the structure of the World System.

CASS 201 & 202: Statistics for Social Sciences       Credit Unit: 6

POL 222: Political Ideas       Credit Unit: 2
The nature of idea, role of political idea in state organization, the place of theory in idea formulation, emphasis must be placed on major political ideas in their historical context, ideas as Monarchism, Liberalism, Democracy, Socialism, Fascism, Anarchism, Conservatism etc.

POL 223: Foundations of Political Economy       Credit Unit: 2
The course introduces students to the study of the relationship between politics and economics. Economics or economic/material relations as determining factor in politics, class analysis and political power relations, production process and study of the material basis of political action.

Required Courses

POL 213: Introduction to African Politics       Credit Unit: 2
The course focuses on the nature of African society before imperialism, establishment of colonial rule in Africa, different systems of colonial administration and economic policies, the
problem of neo-colonialism and dependency, contemporary issues in Africa – regional stability, law, economy, food security and education.

**POL 215: International Political System & Africa**  
Credit Unit: 2  
The Africa’s side to major issues in international politics with particular reference to the period since 1945; the cold war era and nonalignment, wars and politics of intervention or peace keeping operation, arms race and disarmament, New World economic order and Africa; international donors, politics of loans and aids, the role of Multinational and Transnational Organizations, the birth and aspirations of NEPAD and challenges of development within the global context.

**POL 224: Theory and Practice of Local Government**  
Credit Unit: 2  
Theory, Principles and forms of local government, decentralization and its principles-deconcentration, delegation, devolution and privatization, issues in features, leadership/management, finance, function and local-central authorities relationship in comparative terms e.g. Nigeria, Britain, America and France.

### 300 LEVEL

**Core Courses**

**POL 311: Logic and Methods of Political Inquiry**  
Credit Unit: 2  
Political science and the scientific method, introduction to research methods in political inquiry, the nature of concepts, the place of theory, language of variables, hypotheses and generalizations in political science research, sources and methods of data collection and analysis in political inquiry.

**POL 312: Public Policy Analysis**  
Credit Unit: 2  
Defining policy and forms of policy, concepts and strategies of policy planning, programming and budgeting systems (PPBS), basic techniques of network construction and analysis examined descriptively and from the perspective of administrative systems, cost-effectiveness analysis and critique.

**POL 314 & 324: History of Political Thought I & II**  
Credit Unit: 2  
Examination of selected medieval, classical and modern political thinkers such as; Plato, Aristotle, Machiavelli, Locke, Marx, Fanon, Senghor, Nyerere, Nkruman, etc, with special emphasis on the germination and impacts of their ideas.

**POL 321: Research Methods**  
Credit Unit: 2  
Forms of research, research problem formulation, research procedure/research design, relevance of research and fundamental problems in Social Science research.

**POL 322: Political Behaviour**  
Credit Unit: 2  
The study and measurements of various determinants of political behaviour, political socialization, political culture, political participation and apathy, electoral behaviour, public opinion, and political communication.

**POL 323: Comparative Federalism**  
Credit Unit: 2  
Conceptual analysis- federalism, federation and pluralism, forms of and reasons for federations, the genesis of the political dynamics of comparative federal system with particular
reference to intercontinental case studies such as Americas- U.S.A and Canada; Europe- Russia and Germany; Asia- India and Pakistan; Africa- Nigeria and Rwanda

**POL 325: Contemporary Political Analysis**  
Credit Unit: 2  
Contending paradigms in contemporary political analysis, their philosophical and ideological roots, as well as evaluation: elite approach, group theory, functional systems and communications theory, basic concepts and elements of game theory and political gaming, structural analysis, theories of political development; the new political economy.

**Required Courses**

**POL 313: Politics of Development and Underdevelopment**  
Credit Unit: 2  
A systematic and theoretical study of the political and socio-economic context of the problems of development and under-development, dependency and international cum internal economic structures; analysis of profound change; agents of change and constraints and problems contingent on rapid socio-economic change, with specific reference to post-colonial African states but also in comparison with Latin American and Asian countries, among others.

**POL 315: The Methodology of Comparative Politics**  
Credit Unit: 2  
Comparative Political Analysis, History of Comparative Politics, Concepts, the scientific methods, and Logic of Comparative Social Inquiry, objectives of Comparative Inquiry, Approaches to the study of Comparative Politics i.e. single country approach, multi-country approach, and synchronic approach; Problems of Comparative Politics.

**POL 316: Theories of International Relations**  
Credit Unit: 2  
An explicit examination of the basic concepts and theories that have been offered for the study of International Relations; issues like Power, Conflict and politics of accommodation; Systems Theories, Linkage Politics, the theories of Coalitions, and Alliances Models, Games and Simulation.

**POL 317: Theory and Practice of Administration**  
Credit Unit: 2  
Evolution of Administrative Organizational Theory from the Classical through the Neo-classical to the Modern: Relations of administration to politics and the Political Process; administrative behaviour in various institutional settings, interplay of political institutions and administrative patterns of behaviour, study of personal administration decision making in bureaucratic organizations.

**POL 318: Foreign Policy Analysis**  
Credit Unit: 2  
The various conceptions used in foreign policy analysis; transactional flows, the interplay of domestic and external factors, ideological and national interest considerations, and techniques of foreign policy, application of these concepts to the examination of foreign policies of major powers; United States, United Kingdom, Russia, France, China and the emerging powers such as India, Japan, Pakistan, Iran and Israel; as well as African States.

**POL 326: Theory and Practice of Marxism**  
Credit Unit: 2  
The study of Marxism, the examination of dialectical materialism, class analysis, means and sources of production in society; an overview of revolutionary changes brought about by utilizing the Marxist- Leninist ideology, using the examples of USSR, China, Cuba, Vietnam etc.
POL 327: Public Administration in Nigeria  Credit Unit: 2
Ecology of Nigerian Public Administration, the Civil Service, field administration, Public Corporations, Politics of Financial Administration, reforms and challenges of administration in the 21st Century.

POL 328: Issues in International Politics  Credit Unit: 2
The study of conflict and peace building in International politics; strategies of war and arms control; organizations, ethnicity, race, religion, gender, liberation struggles, resources and building of an international order.

400 LEVEL

Core Courses

POL 411: Civil-Military Relations  Credit Unit: 3
Interdependence of civil and military types; the military in the foundation of states; impact of social structures and ethnic or class conflicts upon military organizational procedures and behaviours, the problem of civilian control of the military, the role of armies in revolution, the phenomenon and definition of the military-industrial complex, ubiquity of military extractive tendency; explaining the stability or instability of civil-military relations in a comparative setting.

POL 412: Comparative Politics  Credit Unit: 3
Logic of Comparison, Classification Systems in Comparative Politics; Case study approach competing paradigms or orientations in Comparative Political Analysis, the strategy of across-system theorizing, measurement problems in cross-national research.
A comparative analysis of government and politics based on selected area studies (such as Western Europe and North America; Communist Party States of Eastern Europe; Middle East and North Africa, South East Asia; Latin America).

POL 421: Principles of International Law  Credit Unit: 3
The nature, dynamics and sources of international law; sanctions, international personality, rights and duties of states and governments; territorial and criminal jurisdictions; state responsibility, treatment of aliens, diplomatic agents, privileges and immunities; extradition, Law of the Sea, the law of treaties and the impact of Afro-Asian states in contemporary international law.

POL 422: Comparative Public Administration  Credit Unit: 3
Comparative analysis of private large-scale organizations and public (state) administrative organizations; of public administration in federal and unitary states; of state bureaucracies and state parastatals, of public administration in selected countries among liberal democracies, communist systems and the Third World societies.

POL 426: Research Project  Credit Unit: 6
An original essay to be written by a student under the supervision of a member of the College, across a maximum period of two semesters

115
### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Unit</th>
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<tr>
<td>POL 413</td>
<td>Development Administration</td>
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<tr>
<td>POL 414</td>
<td>Politics of Globalization</td>
<td>2</td>
</tr>
<tr>
<td>POL 415</td>
<td>Theories of the State</td>
<td>2</td>
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<tr>
<td>POL 416</td>
<td>Nigerian Foreign Policy</td>
<td>2</td>
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<tr>
<td>POL 417</td>
<td>International Organizations</td>
<td>2</td>
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<tr>
<td>POL 418</td>
<td>Issues in Political Philosophy</td>
<td>2</td>
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<tr>
<td>POL 423</td>
<td>African Political Thoughts</td>
<td>2</td>
</tr>
<tr>
<td>POL 424</td>
<td>Nigerian Local Government System</td>
<td>2</td>
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</table>

**POL 413: Development Administration**
Theories of development, forms, procedure and techniques for development of urban centers, the problems involved in the planning and execution of major services in urban political systems, and an examination of the structure of political power operating in such systems.

**POL 414: Politics of Globalization**
Conceptual clarification; evolution and trends of globalization; new globalization and the World stability (conflict, war, economic cum technological disadvantages); globalization, the State and economy in Africa

**POL 415: Theories of the State**
Conceptualization of the state and forms of government, theories and accounts of the origin or developments of the state; social contract theories and the modern state; the liberal democratic state and its presuppositions; Marxist theories of the capitalist state; state as focus of analysis in political studies.

**POL 416: Nigerian Foreign Policy**
A study of dominant trends in Nigeria foreign policy since independence, showing both the domestic setting and the international environment; issues during civilian and military regimes; the effects of the civil war on Nigeria’s foreign policy; the changing pattern of Nigeria’s non-aligned policy; problems of foreign policy making since 1976 and Nigeria’s pan-African role; Nigeria’s relative economic status and commitments as a regional power in Africa, and problems of relating with immediate neighbors.

**POL 417: International Organizations**
Historical evolution of international institutions from the turn of 19th Century to the present, the notion of international organizations and their various classifications: International Organizations- League of Nations, United Nations Organization, The United Nations; Transnational organizations (governmental and non-governmental); regional organizations (governmental and non-governmental); sub-regional groupings based on political, trade/economic, military, socio-cultural or ideological alliances.

**POL 418: Issues in Political Philosophy**
The nature of conceptual analysis in political philosophy; issues arising from the conceptions of political terms such as power, authority, rights, obligation, liberty, sovereignty, state etc; Philosophy and Theory; Philosophy and Science; Theory and Practice of Political Philosophy.

**POL 423: African Political Thoughts**
Traditional political ideas; concepts of authority, order and the polity; thoughts in Pan Africanism; Contemporary African Political thinkers like Nkrumah, Fanon, Nyerere, Senghor, Cabral, Ake, Rodney etc; Concepts like African Socialism, humanism and authenticity.

**POL 424: Nigerian Local Government System**
The evolution of Nigerian local government- the pre-colonial and colonial administrative system, the post-independence development; the role of the Military and the historic reforms (1976, 1989 1995) ; contemporary local government administration in Nigeria- functions, funding and problems.
POL 425: Political Parties and Pressure Groups  

Conceptual handles- Political parties, pressure groups; party systems, regime types and impact of political culture; theories, methods and forms of pressure groups; civil society and democracy.
PHILOSOPHY, AIMS AND OBJECTIVES OF PROGRAMME
The philosophy underlying the sociology degree programme is to produce a crop of graduates equipped with appropriate knowledge to make their contribution to the development of Nigeria, Africa and the global community, having been exposed to a broad foundation of knowledge in the field of social sciences in general and the various sub-field of sociology in particular.

1. Short History of the Department
The Department of sociology and Anthropology is one of the eight Departments recognized as part of the College of Arts and Social Science which shall be awarding the Bachelor of Arts (BA) and Bachelor of Science, Honours Degree and higher Degrees as specified in the Handbook of General information and prospectus for 2003/2004 of Igbininedion University, Okada.

It began in 2003/2004 session with a lecturer and later a professor. The Department had no core students, so the staff was deployed into the teaching of Sociology and Psychology courses in other Department that offer sociology and psychology courses as electives, such as: Law, Political science, Economics, Mass communication, Business Administration ,International Relations. The Department then looked forward to 2004-2005 session with the hope yielding its first set of core students in 2004/05 academic session.

2. Aims and Objective
The Department of sociology and anthropology is double-barreled as the name indicates and It tends to be so in its philosophy and approach in order to retain the most excellent traditions of these two disciplines which, in western European racist culture of the 19th -20th centuries, developed as separate discipline. During this period, European scholars classified human culture and society into two: sociology, which deals with advanced society and Anthropology, which deals with primitive society.

By the beginning of 1950, it gradually dawned on Western scholars that the study of advanced society and primitive society employs the use of the same concepts and theories derived from human ecology, culture and society .The formulation of the same concepts and theories confirms the equality of human experience and the universality of the human mind irrespective of biological difference such as skin colour.

The banishment of racist’s subjective intrusions which separated the disciplines of Sociology and Anthropology resulted in the amalgamation of the discipline which took different formats like using Department of Sociology and Anthropology, or the retention of former name with an increase in the course content, such as the Department of sociology increasing their Anthropology course content and the Department of Anthropology increasing its Sociology course content.

We in Africa welcomed the objective release of the two disciplines from the chains of racism impose on the West European tradition especially in Britain and the USA. Since Africa is objectively classified as a developing continent with a continuum of diverse cultural and social characteristics, the bringing together of the two disciplines has an enabling theoretical advantage: it helps scholars to have a holistic and humane view of human cultures and societies and its dynamic aspect in the evolutionary continuum .For example ,the concept of family ,child ,father ,mother ,lineage ,kinship and the theories of functionalism, evolutionism, symbolic interactionism are applicable to understanding all human
cultures and societies. This gives room for meaningful comparative analysis and systematic elucidation of other cultural social, ecological and technological variables.

Hence, Igbinedion University Okada, has adopted the double-barrel nomenclature: the Department of Sociology and Anthropology to keep a balance with the new trend by adopting the four dimensional teaching and research approach: the theoretical, the practical, the ethnographic and the methodological approaches African cultures and societies including the cultures of Nigeria, Edo and their neighbour, Benin and its sub-culture of Okada shall be the central focus, while we will extend the horizon of our humanistic and scientific studies into other cultures and societies of the world-Europe, South East Asia, the Americas and the Island of the pacific.

The issues of globalization and international mass communication shall be culturally and socially examined in terms of African and Nigerian responses to them. The programme is designed to attract and stimulate scholarship among students in other departments, such as Humanities, Social Sciences, Education, Law, Medicine and Science by making them view through the broad window of the discipline of Sociology and Anthropology the widest paranoma of human cultures and societies. Students are offered the rare opportunity of enter doing a combined Honours degree in Anthropology and Sociology with other discipline or combine some relevant course(s) in Anthropology and Sociology with their major discipline.

3. Admission Requirement for the Four-Year programme

(i) Candidates for admission into the four-year degree programme (B.A. Sociology and Anthropology should possess a Senior Secondary Certificate or General Certificate of Education or their equivalents with at least five CREDIT passes which should include English language and Mathematics with two additional social science subjects obtained in not more than two sitting.

(ii) Acceptable passes in the Joint Admission matriculation Examination (JAMB) must be in the following areas:

(a) Use of English
(b) Any two social science subjects (Government, Geography, Economics, Commerce, History, Agricultural science); and
Any other subject, other than those in (b) above.

(iii) Candidates with a T.C.II must have at least five MERIT passes including English language and Mathematics. The other 3 subject will be as started in (ii)(b) and (c) above.

4. General Admission Requirement for the Three Year Programme(Or Direct Entry)

(i) Requirement as in A (i) above plus passes in at least two subject at the G.C.E. (A/L) or H.S.C. including one social science subject.

OR

(ii) At least MERIT passes in TWO N.C.E teaching subjects plus THREE other credit passes in G.C.E. (OL) or W.A.S.C. These five subjects must include English Language and Mathematics, in not more than two sittings.

OR

(iii) At least a credit pass at Diploma in social works (DSW) plus five credit passes which must include English language and Mathematics in G.C.E.(O/L) or W.A.S.C. obtained at not more than two sittings.

OR

(iv) At least a B+ average in related fields in an O.N.D. certificate plus five credit passes including English language and Mathematics in not more than two sitting.

OR
H.N.D. in any science subject.

However, the University also reserves the right to further screen all the students for admission by oral interview or examination. This is for both intellectual and moral standing.

5. Degree Programme and Course Requirements

The Department offers a four-year programme leading to the award of B.Sc Single Honours in Sociology and Anthropology or a combined honours degree in combination with another discipline. Combined Honours specialization begins in the third year when the student takes half of the compulsory courses in Sociology and Anthropology and the other half in the combining discipline.

For the purpose of the minimum standard in social sciences, the courses are categorized into two:
*Core (compulsory) course must take and passed by all students before they can be awarded a Degree.
*Elective courses will consist of a wide variety of courses from which students must select a given number which they must pass before they can be awarded a degree. Such would be additional and/or advanced courses that would not be required of all students but from those specialization in such group.

Most of the elective courses however would be outside the compulsory/required subject areas and could be from within or outside the Department and/or from within or outside the faculty.

6. Teaching and Research Facilities

The Department shall try and build up its physical anthropology and archaeology laboratory. Since research in Sociology and Anthropology is predicated on fieldwork both staff and students are encouraged to engage in field research within and outside the University community: in institutions, organizations and society at large. Students use the immediate environment for fieldwork practicum in methods course and the final year students are required to write a dissertation based on fieldwork conducted preferably in their home area.

Research activities of the teaching staff are varied and rich covering the varieties of specialization of the academic staff. These areas include population, military sociology, health, women studies, archaeology, rural and urban development, social organization, ethnography, theory and methodology, social psychology, criminology.

7. Students Organization and Publications

The Department the Nigerian Student Sociology and Anthropological Association (NSASA) of which every student in the Department is a member. The Association will publish the journal, Social Anthropologist run entirely by the students. Additionally, all students are expected to be members of the Uni-Igbinedion Students’ Union and National Association of Nigeria students.
### 100 LEVEL FIRST SEMESTER

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<td>SAA 112</td>
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<td>SAA 113</td>
<td>Elements of scientific thought 1</td>
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*Two electives from within and outside the college in the 1st semester*

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<td>SAA 123</td>
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<td>SAA 125</td>
<td>Ethnography of Nigeria (introduction to Africa societies and culture)</td>
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<td>SAA 126</td>
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*One elective from and outside the college general students*

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<td>SAA 213</td>
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<td>SAA 214</td>
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<td>SAA 219</td>
<td>Social psychology 1</td>
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<td>SAA 218</td>
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*Sociology of marriage and the*
family

*Two electives courses from the department*

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<td>SAA 228</td>
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*Any other two electives outside the department*

**TOTAL**
### 300 LEVEL

#### FIRST SEMESTER

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*One elective outside the department*  

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<td>SAA 324</td>
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<td>SAA 329</td>
<td>Sociology of health illness relations</td>
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<td>SAA 331</td>
<td>Population of studies</td>
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TOTAL
400 LEVEL | FIRST SEMESTER
---|---
S/N | CODE | COURSE TITLE | STATUS | UNIT
1 | SAA 411 | Research project / original Essay | C | 2
2 | SAA 412 | Anthropological theories | C | 2
3 | SAA 413 | Demography | C | 2
4 | SAA 415 | Urbanization and labour migration 1 | C | 2
5 | SAA 417 | Sociology of Development | C | 2
6 | SAA 418 | Industrial sociology | C | 2

TOTAL

Two electives from the Department

1 | SAA 414 | Labour relations | E | 2
2 | SAA 416 | Sub – Sahara Africa | E | 2
3 | SAA 419 | Sociology of Deviant Behaviour | E | 2

TOTAL

SECOND SEMESTER

1 | SAA 421 | Anthropological theories | C | 2
2 | SAA 424 | Culture and communication | C | 2
3 | SAA 422 | Regional Ethnography (Small & complex societies) | C | 2
4 | SAA 434 | Models in sociological Analysis | C | 2

TOTAL

COURSE DISCRIPTION

SAA 111/121: Introduction to sociology
Introduction analysis and description of social structure and dynamics of human society.

Field of sociology. Sociology and other social sciences. Basic concepts and principles of sociology.

SAA 112: Introduction of African Social Anthropology
Introduction to and survey of human origins and cultural achievements.
Social Anthropology: historical, theoretical and methodological perspectives.

SAA 113: Introduction to African societies and cultures.
The study and criticism of ethnographic descriptions of African societies. People and their cultures, both as scientific reporting and as literacy art from survey African societies and cultures in a contemporary settings. The cultural regions, social organisations. languages polity, economy and world news.
SAA 123: Elements of scientific thought

SAA 125: Ethnography of Nigeria
Ethnographic survey of the main societies in Nigeria and their associated cultures with special attention to their geographical distribution philosophy, language, religion and world view. Major and majority groups Yoruba, Hausa, Igbo, Urhobo, Edo, Ijaw, Ibibio, Ithikiri, Fulani, Tiv and Jukun etc.

SAA 126: Introduction to psychology
Introduction to the relationship between the functioning of social systems and behaviour and attitude of individuals. The biological bases behaviour, the development of behaviour, clinical approaches to personality psychological factors in social living.

SAA 211: Advanced elements of sociology and Anthropology
History of sociology and anthropology as separate disciplines and as one discipline kinship and marriage, lineage systems, age-grade systems, death, and inheritance status and roles, economics systems, religious systems, political systems, sciences and technology, witchcraft, sorcery and magic.

SAA 212: Social statistics
Role of statistics in social science inquiry, nature of measurement, presentation of data, central values, measures of deviation, correlation, nature of sampling probabilities and normal distribution, inference, hypothesis testing, test of significance.

SAA 213: Social change
Theoretical perspectives on social change. Institutional analysis of phenomenon of social change. Theories of social problems resulting from social change. The alternations of society overtime.

SAA 214/221: History of social thought I & II
An introduction to the main contribution to social thought like Ibn Khaldun, comte, weber, max, durkheim, Radcliffe-brown and to the rise and development of modern sociology and anthropology. A critical discussion and assessment of social thought in African and other parts of the world with emphasis on the origin of sociology and anthropology.

SAA 222: Elements of psychology and social psychology
A basic course dealing with the interplay between the person and his environment. Review of such issues as development of human personality through socialization, social perception, motivation and learning role playing and small group interaction, attitude formation and change, norms and social influences, human conflict and collectives behaviour.

SAA 223: Socio-linguistics
Language will be studied as an aspect of human behaviour culture. The emphasis will be on language as symbol, and as a system and social context of language as well as its usage in the study of sociological problems.

SAA 224: Structure of the Nigerian society
Social characteristics of contemporary Nigerian societies, new social groupings in urban communities. Migration patterns and social mobility, social classes and social inequalities, social problems and social welfare, ethnicity and changing family structures.

ELECTIVES

SAA 215: Sociology of mass communication
The course provides some basic foundation for the study of human communication. It is designed to and students to understand the nature and functions and concepts of the mass media and their institutions. The theoretical, conceptual and evaluative aspects of human communication will be examined, also considered are the implications of the growth of mass media institutions the way they shape views, modify behaviour and help to fashion society.

SAA 216: Sociology of marriage and the family
Analysis of the principles of kinship classification and the types and functions of groups formed on those principles. Study of marriage as a social institution and the family as a source of socialization and child care.

SAA 217: Sociology of knowledge, science and technology
Social determination of knowledge. Examination of science and technology as social and cultural institutions. Similarities and difference between scientific modes of thinking and those of governing other human activities. Technology and development processes. Knowledge systems which govern cumulative technology. Science and technology and cultural convergence.

SAA 218: Women in society
An introduction to women studies survey of traditional and contemporary attitudes of male-centered societies to women; factors shaping these attitudes. Public issues on women.

SAA 225: Sociology of education
Education as social institution and social process. The role of education in social stability and change. A comparison between various educational systems. Education and African social and cultural development; the politics of education.

SAA 226: Archaeological Development of culture, society and technology
Outline the development of material culture and human society as exemplified by archaeological and ethnographic data from the Paleolithic age through the Neolithic and from age to present.

SAA 227: Peoples and cultures of Africa
The study and criticism of ethnographic description of African societies, people and their culture both as scientific reporting and as a literary art form. Emphasis will be on the comparative and contrasting analysis of kinship, marriage, local grouping economic, political and religion.

SAA 311/322: Research methods in sociology and Anthropology I & II
Formulation of social issues as research questions. General concepts concerning scientific methods, technique of data collection and analysis strategies of descriptive and historical research, tools of research, various types, methods and advantage and disadvantages.

SAA 312: Social inequality
Analysis of forms and functions social inequality theories concerning the origins, persistence and consequences of social systems of stratification. Types of social mobility and their impact on stratified structures, social inequality and social probability Nigeria.

SAA 313/324: The sociology of crime and delinquency (criminology I & II)
The study of theories and explanations of criminology deviance causes of crime and factors favorable to criminality. The complication uses and limitations of crime statistics, topology of criminal behaviour, the development of criminal careers, society’s reaction to treatment of criminal and juvenile delinquents and measures of crime and delinquency prevention.

SAA 314/325: Social -psychology I & II
Socialization, social learning, internalization, conscience formation; values and attitudes, prejudices and discrimination; stereotypes; development and change of attitudes; social movements.

SAA 315: The Genetics of Human variation and diversity
The course will use the biometrical and mendelian approaches to the study of human variations and the ' nature- nurture' problems and how genes cause variation in human population. Factors influencing genetic change; mutation, drift, selection, evolution, population, structure, inbreeding, migration and mating system will be considered.

SAA 316: Race and ethnic relations (inter-group relations)
This course is organized around three perspectives: white racism ,the verbal and metaphorical stereotyping of blacks and other sub-dominant, dominant groups institutional racism, colonialism and racism. Tribalism, ethnicity, nationalities, meaning and problems of terminology.

SAA 317: Social stratification and mobility
An examination of the theoretical models of stratification systems. the course attempts a comparative analysis of the stratification processes and social mobility in industrial and developing societies with special reference to Africa.

SAA 318: Sociology law
A sociological treatment of the social origins and consequences of law and legal processes. The study of law as a special institution including consideration of the social uniqueness of its features and functions through comparison with other institutions and societies. The traditional African legal cultures and their contemporary relevance. Law and society, law and the economy, law and cultural process.

SAA 320: Sociology of urban life
The city as a form of organization; western and non-western cities. theories, types and structure of the city. The changing city in a changing society. Theories and economics of labor migration.

SAA 321: Methods for social research
Formulation of social issues as research questions. General concepts concerning scientific methods. Stratifies of descriptive research and horizontal research. Tools of research ,various types, methods and their advantages and disadvantages.

SAA 323: Political sociology
The notion of politics and power in sociological writings including aspects of the social and economics bases of the political order and their relationship to ideology. The nature of political cultures, the processes of political socialization, political parties, pressure groups, participation of elite groups and the development of movement for political change.
SAA 326: Sociology organization
Survey of theoretical and empirical analysis of complex organization. Structural properties of organizations and their consequences. bureaucracies and complex relationship among organization in the community. Major theoretical and methodological problems and problems of formal organization in the new states.

SAA 328: Rural sociology
The fundamental features of rural societies, their ecological systems and patterns of transformation. The identification, evaluation and utilization of nature and human resources. Social change in rural societies. Rural social in rural societies. rural social institution and their adaption to change.

SAA 329: Sociology of health and illness behaviour
An introduction to concepts and social aspects of health, illness and curing in different African societies with particular reference to the Nigerian society. Interaction between folk and modern medicine. The delivery of health as a social problem.

SAA 330: Sociology of religion
An examination of theories of the origins and sources of religion, the function of religion institution in societies, the societies , the relationship between religion and society in relatively stable small communities, the approaches of social anthropology of African religion, the rise of new religions movements and reformed movements, the place of religion in modernized complex and cities religion leaders and leadership, religious conflicts and religion and social change.

SAA 411: Research project/original essay
A piece of original researched essay in sociology and Anthropology conducted under supervision of a member of staff.

SAA 412/421: Sociological and Anthropological theories I & II
An examination of the issues and problems relating to dominant system of contemporary sociological theory including evolutionism, functionalism, structuralism, symbolic interactionism etc. Application of these theories to contemporary problems.

SAA 413: Demographic Analyses
The nature and development of population studies. Its scope and method. Some basic concepts pof population analysis , international comparison of population growth problems of population in Africa and issues of population policy.

SAA 414: Sociology of the third world
Decolonization and the emergence of the third world. The characteristics of third world. People and their cultural profiles. The north-south interaction and the conflicts.

SAA 415/423: Urbanization and labor migration I
The city as a form of organization; western and non-western cities. Theories ,types and structure of city. Urbanization in Nigeria. Migration and Urbanization policies in Africa .rural development.

SAA 416: Sub-Sahara Africa
SAA 417/425: Sociology of development
Theories of development and its relations to growth. Sociological implications of development and its effects on society and family structure. The impact of colonial policies on post - independence internal conditions.

SAA418: Industrial sociology
The structure and functions of industrial organization and their relation to society from a cross-cultural perspective. The evolution of management philosophies. Social relations in the workplace, industrial conflicts trade unionism and industrial relations.

SAA 419: Sociology of deviant behaviour
The course will focus on the native, definition and sociological aspects of deviant behaviour and society's response to it. areas to be covered will include types of deviancy, anomic theory, social control agencies, processes and institution.

SAA 422: Regional ethnography (small scale and complex societies)
Small scale and complex societies are examined from the point of the universals and variation in human societies. The central focus includes problems of ethnicity technological innovation and sociocultural change, the social anthropology industry, the scope and nature of industrial organization and the influence of technological factors on social patterns.

SAA 424: Culture and communication
An examination of human communication from the perspectives of linguistics anthropology. A treatment of social structure and socio-structural behaviour as essentially communicative phenomena.

SAA 434: Models in sociological analysis
The course is built around two completer issues:
(a) What type of explanations are used in sociology and
(b) What type of data are used in constructing explanations in sociology? The main is to provide the student with the ability to evaluate a sociologist's approach to any empirical area from two points (i) is the chosen model of explanation adequate and (ii) is the purported explanation adequate in terms of chosen models?
## ACADEMIC STAFF AVAILABLE FOR THE PROGRAMMES
### LIST OF TEACHING AND RESEARCH STAFF

<table>
<thead>
<tr>
<th>NAME</th>
<th>SPECIALIZATION</th>
<th>DISCIPLINE</th>
<th>QUALIFICATION</th>
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<tbody>
<tr>
<td>Prof. Sylva. O. Osemwenkha</td>
<td>Medical sociology</td>
<td>Sociology</td>
<td>BSc, MSc, PhD</td>
<td>Professor</td>
</tr>
<tr>
<td>Sr. Dr. Pauline Aliqwekwe</td>
<td>Anthropology</td>
<td>Anthropology</td>
<td>BSc, MSc, PhD</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>Dr. O. D. Popoola</td>
<td>Social / Personality Psychology</td>
<td>Psychology</td>
<td>BSc, MSc, PhD</td>
<td>Lecturer II</td>
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<tr>
<td>Dr. F. I. Etadon</td>
<td>Industrial Education</td>
<td>Education</td>
<td>BSc, MSc, PhD</td>
<td>Lecturer II</td>
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<tr>
<td>E. O. Bello</td>
<td>Industrial Sociology</td>
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<tr>
<td>A. Olorunlana</td>
<td>Medical Sociology</td>
<td>Sociology</td>
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<td>Asst. Lecturer</td>
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**DEPARTMENT OF THEATRE ARTS**
**B. A. Theatre Arts Programme**

130
This Curriculum is designed to

Provide students a unique opportunity for a functional and most relevant art in this century. It is also designed with the pace setting roles of Igbinedion University in mind. With this in mind, the curriculum is designed to enable students to gain expertise in various areas of the theatre as well as grounding in liberal education through exposure to study areas as:

1. General Studies
2. Compulsory core-courses
3. Elective courses

The recommended areas of study for elective courses include:

i. Mass communication
ii. Sociology
iii. English
iv. Political Science

PHILOSOPHY
Theatre Arts as an academic discipline and profession is concerned with unraveling the mysteries of life. Through man’s conflictual relationship with his fellow man, basic issues that deal with the entire human existence are explored and finally resolved. Theatre is an indispensable vehicle for merging the individual with the whole. It reflects man’s innate capacity for association and sharing of ideas and experiences. As academicians, students are made to understand theatre theories to enable them match these theories, philosophies and movements with theatre practice. The B.A. programme aims at completely foregrounding students in the old and nascent study and practice over the ages.

VISION AND MISSION
The major vision and mission of our department is to produce graduates who would effectively and efficiently work in the Media and Theatre agencies, cultural establishments, creative institutions, fashion design outfits, industrial companies and film production outfits.

Our vision is also to professionally incubate potential employers of labour and not mere employers as is the case in many universities in Nigeria.

To ensure this, our curriculum has been designed to expose students to the arts of the Theatre with a perfect blend of theory and practice.

BROAD AREAS OF THEATRE ARTS
1. Theatre History
2. Media Arts/Film Studies
3. Directing(for stage and the electronic media)
4. Acting
5. Dramatic Theory and Criticism
6. Theatre Design and Administration
7. Costume and Make-Up
8. Music, Dance and Choreography

AIMS AND OBJECTIVES OF THE DEPARTMENT OF THEATRE ARTS
a) To equip students with a good knowledge of the main Principles of the theory and practice of Theatre Arts.
b) To train students in the arts of the stage and Creative Sights.
To prepare them for further studies in the discipline or prepare them for relevant careers in management, administration teaching, broadcasting, cultural centres.

DEGREE PROGRAMMES OF THE DEPARTMENT
The department of Theatre Arts offers just one programme; B.A (Hons) Theatre Arts.

ADMISSION REQUIREMENTS
Candidates are admitted into the B.A. Degree programmes of the Department in any of the following three ways – through University Matriculation Examination (UME), by Direct Entry, or through Inter-University Transfer.

(1) University Matriculation Examination (UME) Entry Mode:
Five O’level credit passes which will include English Language, English Literature and three other subjects in Arts, Social Sciences and Science at not more than two sittings will be required. Holders of NECO, NABTEC or their equivalent are also eligible to apply.

(2) Direct Entry Mode:
Two A’level passes in Arts or Science or Social Science subjects will be required. Diploma from relevant courses from recognized institutions will be accepted. NCE passes in relevant subjects as well as IJAMB will also be accepted.

(3) Inter – University Transfer
Candidates wishing to transfer into the Department from another University must have:
   i. Obtained and filled the Inter – University Transfer form from the University Admissions Office.
   ii. Satisfied the Departmental minimum academic standard required for such level.

OFFERINGS
* Compulsory electives
** Optional electives

100 Level
First Semester
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>THA 111</td>
<td>Traditional African Theatre</td>
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<tr>
<td>THA 112</td>
<td>Introduction to Drama &amp; Theatre</td>
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<tr>
<td>THA 113</td>
<td>Introduction to Theatre Practice 1</td>
<td>3</td>
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<tr>
<td>THA 114</td>
<td>Theatre History 1: Greeks to European</td>
<td>2</td>
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<tr>
<td>THA 115</td>
<td>Basic Communication Theory</td>
<td>2</td>
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<tr>
<td>THA 116</td>
<td>Practical Participation Orientation</td>
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<tr>
<td>CMP 113</td>
<td>Introduction to Computer</td>
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<td>GST 111</td>
<td>Communication in English 1</td>
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<td>GST 112</td>
<td>Logic Philosophy and Human Existence</td>
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2nd Semester
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<td>Introduction to Theatre Design &amp; Organization</td>
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<td>THA 122</td>
<td>Voice and Speech</td>
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<tr>
<td>THA 123</td>
<td>Theatre Arts Practice</td>
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<tr>
<td>THA 124</td>
<td>Theatre History 11 Oriental &amp; Africa</td>
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<tr>
<td>THA 125</td>
<td>Introduction to Radio and Television</td>
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<td>CMP.123</td>
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**200 Level**

**1st Semester**

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<tbody>
<tr>
<td>THA 211</td>
<td>African Drama &amp; Theatre: The Colonial Era</td>
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<tr>
<td>THA 212*</td>
<td>History of Drama &amp; the Theatre: Renaissance to Modern</td>
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<td>THA 213</td>
<td>Introduction to Dramatic literature &amp; Criticism</td>
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<tr>
<td>THA 214</td>
<td>Introduction to directing</td>
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<td>THA 215</td>
<td>Basic Speech Arts and Acting Techniques</td>
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<td>THA 216</td>
<td>Technical Theatre &amp; Scene Design</td>
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<td>THA 217</td>
<td>Intro to Theatre Admin. &amp; Studio Mgt.</td>
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<td>THA 218</td>
<td>Fundamentals of Playwriting</td>
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<td>THA 219</td>
<td>Introduction to Dance &amp; Music Theatre I</td>
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<td>GST 211</td>
<td>History and Philosophy of Science</td>
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**2nd Semester**

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<td>THA 221</td>
<td>Arts of the Theatre</td>
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<td>THA 222</td>
<td>Community Theatre</td>
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<td>THA 223</td>
<td>Children’s Theatre/Puppetry</td>
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<td>THA 224</td>
<td>Introduction to Dramatic Genres: Tragedy &amp; Comedy</td>
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<tr>
<td>THA 225</td>
<td>Principles of Broadcasting</td>
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<tr>
<td>THA 226</td>
<td>Technical Theatre &amp; Scene Design</td>
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<td>THA 227</td>
<td>Theatre Admin. &amp; Studio Mgt.</td>
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<td>THA 228</td>
<td>Theatre workshop</td>
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<td>THA 229</td>
<td>Introduction to Dance &amp; Music II</td>
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<td>GST 221</td>
<td>Peace Studies and Conflict Resolution</td>
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<td>EPS 221</td>
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<td>CSP 221</td>
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**300 Level**

**1st Semester**

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<td>Modern African Drama &amp; Theatre</td>
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<td>THA 312</td>
<td>Play Appreciation &amp; Theatre criticism</td>
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<tr>
<td>THA 313</td>
<td>Research Methods in Theatre Arts</td>
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<td>THA 314</td>
<td>Black American Theatre &amp; Drama in the Diaspora</td>
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<td>EPS 311</td>
<td>Entrepreneurial Skills</td>
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**ELECTIVE COURSES (CHOOSE TWO)**

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<td>THA 316</td>
<td>Theatre Administration and Scenography I</td>
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### 317, 318, 319, 331

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<td>THA 318</td>
<td>Media Arts Studies I</td>
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<td>THA 319</td>
<td>Dance &amp; Music theatre I</td>
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<td>THA 331</td>
<td>Educational Theatre &amp; Children Theatre I</td>
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<td>THA 322</td>
<td>Popular Theatre/ Theatre for Development</td>
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<td>THA 323</td>
<td>Author Study</td>
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<td>THA 324</td>
<td>Production Workshop</td>
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**ELECTIVE COURSES (CHOOSE TWO)**

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<td>THA 326</td>
<td>Costume and Makeup</td>
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<td>THA 327</td>
<td>Directing II</td>
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<td>THA 328</td>
<td>Media Arts: Radio, TV, Video, Film &amp; Folk Media II</td>
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### 400 Level

#### 1st Semester

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<td>THA 412</td>
<td>Sociology of Drama and Theatre</td>
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<td>THA 413</td>
<td>Philosophy and Aesthetic of Theatre I</td>
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<td>THA 414</td>
<td>Workshop Ensemble</td>
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**ELECTIVE COURSE (CHOOSE TWO)**

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<th>Course Code</th>
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<tr>
<td>THA 415</td>
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<td>THA 416</td>
<td>Theatre Administration and Scenography</td>
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<td>THA 417</td>
<td>Advanced Directing</td>
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<td>THA 418</td>
<td>Sociology of the Media, Film, Radio, TV &amp; their attributes I</td>
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<td>THA 419</td>
<td>Advanced Dance and Music Theatre I</td>
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<td>THA 431</td>
<td>Playwriting and Theatre Criticism I</td>
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#### 2nd Semester

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<tr>
<td>THA 421</td>
<td>Topics in Theatre Studies</td>
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<td>THA 422</td>
<td>Sociology of Drama and Theatre II</td>
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<td>THA 423</td>
<td>Philosophy and Aesthetic of Theatre II</td>
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<td>THA 424</td>
<td>Workshop Ensemble II</td>
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<tr>
<td>THA 442</td>
<td>Long Essay</td>
<td>6</td>
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**ELECTIVE COURSES (CHOOSE TWO)**
THA 425  Advanced Acting  3
THA 426  Scenography, Costume Construction & Make Up II  3
THA 427  Advanced Directing  3
THA 428  Sociology of Media Arts II  3
THA 429  Advanced Dance and Music Theatre II  3
THA 441  Playwriting and Theatre Criticism II  3
Total  24

COURSE DESCRIPTION

100 LEVEL

THA 111: Traditional African Religion (2 credits) 1st Semester.
This course is designed to introduce students to the study of the Traditional African Theatre as a non-written drama discipline in various African communities and as a form of theatre evolving from the festival in its various contexts and settings.

THA 112: Introduction to Drama and Theatre (2 credits) 1st Semester.
This is an introductory course, which explains the fundamental distinctions between “theatre” and “drama” as theoretical and practical concepts, revealing their interrelatedness. It seeks further to explore the distinct forms of the two concepts while using specific text to illustrate their ensemble nature.

THA 113: Introduction to Theatre Practice (3 credits) 1st Semester.
This course is an introductory course to the performance, composition and production aspects of drama, dance, and music, oral and decorative arts. This course is preparatory to the practical aspects in the second semester.

THA 114: Theatre History I: Greeks to European (2 credits) 1st Semester.
This course emphasizes the history, the growth and development of theatre and its practices from ritual, oral and written tradition from the Greeks to the European times. Effort would be made to study the various contexts and texts focusing on conditions of theatrical performance, concepts of stage house, play and with the view to focusing attention on the social conventions that realized them.

THA 115: Basic Communication Theory (2 credits) 1st Semester.
This course is designed to introduce students to the rudiments of the Media Arts. It will also do a survey of the History, growth and development of the Media industry with emphasis on print, radio, television, film and folk media.

THA 116: Practical Participation Orientation (2 Credits) 1st Semester
This course is designed to involve the students in practical participation that would lead to a major production.

CMP 113: Introduction to computer (2 credits) 1st semester
This course is a basic introduction to the use of computer. The study would include the evolution and generation of computers, the types of computers and the different environments of computer.

THA 121: Introduction to Theatre Design and Organization (2 31credits) 2nd semester
This course is designed to continue the study of the theatre forms of architecture and organization approaches from the medieval period to the present day. Effort would be made to concentrate on the peculiarities of the various types from specific ages.

**THA 122: Voice and Speech (2 credits) 2nd Semester**
This course introduces students to phonetics with specific reference to the consonant and consonant clusters. Speech organs would be studied in relation to the production of consonants. These consonants would be classified in accordance with their places and manner of articulation. Phonetic transcription will be used and practiced intensively in words and phrases that are made up of both vowels and consonants.

**THA 123: Theatre Practice (3 Credits) 2nd Semester**
This course is the practical aspect of the THA 113. Students would be expected to compose, perform any of their artistic compositions developed in the course of the study.

**THA 124: Theatre History II: Oriental and Africa (2 Credits) 2nd Semester**
This course emphasizes the history, the growth and development of theatre and its practices from ritual, oral and written tradition from the Oriental to Africa. Efforts would be made to study the various contexts of stage house, play and with the view of focusing attention on the social convention that realized them.

**THA 125: Introduction to Radio/Television (2 Credits) 2nd Semester**
This course is designed to introduce the students to the basic functions of Radio and Television. The students will also be exposed to the principles and practice of Broadcasting. On completion of this course, the student should among other things, know the history and origin of Radio/Television Broadcasting and understand the basic equipment used in broadcasting. The student will also understand the places of programming, news production and presentation and advertising in the broadcast triangle.

**CMP 123: Application of Computer to Arts (2 Credits) 2nd Semester**
This course is designed to acquaint students on the different ways computer could be used in the course of the theatre profession. Students are expected to utilize the knowledge acquired in this course in the execution of their assignments and other aspects of the theatre.

### 200 LEVEL

**THA 211: African Drama and Theatre: The Colonial Era. (2 credits) 1st Semester.**
This is a study of the history and development of traditional African Theatre and drawing from the earliest times. However, the emphasis would be on indigenous theatrical activities in Africa – especially as they operated in places like churches, concert party bands, and the role of minstrels, and pop songs group. The attempt to study this would flow into the mid -70s.

**THA 212: History of Drama and Theatre: Renaissance to Modern (2 credits) 1st Semester.**
This course is a historical survey of the major events and development in the theory and practice of world drama and theatre from the renaissance to 1960.

**THA 213: Introduction to Dramatic Literature and Criticism (2 credits) 1st Semester.**
This is an introductory study of critical methodologies since Aristotle, using selected plays. The students are expected to understand and appreciate how the criticism of drama has shaped, and has been shaped by the writer’s principles of selecting and arrangement.

**THA 214: Introduction to Directing (2 credits) 1st Semester.**
This study introduces the students to the basic mechanics of directing for the stage. The director’s application of the principles of compositions, picturization, movement, rhythm and pantomimic dramatization is emphasized.

THA 215: Basic Speech Arts & Acting Techniques (2 Credits) 1st Semester
Through basic mechanics which aid articulation and projection, the students study the phonemic and stress patterns of English and their interaction with various Nigerian Language tones. So grounded the students learn to speak poetry and prose with differing dramatic effects as demanded by the context or the text.

THA 216: Technical Theatre Scene Design I (2 credits) 1st Semester
This is a theoretical course in theatre design. This is expected to take a survey of design as the visual scheme of a production, which includes scenery, costumes, props and stage lighting. This course will expose students to the definition of design, nature of design and functions of design. It will also explore the aesthetic factors of design in the paradigms of its appropriateness to the script, the director’s interpretation, the need for individuality and visual unity. This course will further expose students to the physical factors used in actualizing the theories. Its main focus is on set and lighting as they apply to the kind of stage action, the place of performance and technical demands of the script. Students would be expected to design a production at the end of the semester.

THA 217: Introduction to Theatre Management and studio design (2 credits) 1st Semester
This is an introductory course in the theatre management practice. This course establishes the relationship between three integral-related study areas i.e. the artistic, the economic and the administrative management aspects of the theatre industry. The course is designed to give the students knowledge of the business potentials of the theatre as a profession. This course would cover basic techniques of poster, hand bills, brochures and other publicity/advertising material method of theatrical publicity, treating and ticket sales, fundamentals of house management and ushering. This course is also to expose students to the legal aspect of art management and the law-copy right rules and problems.

THA 218: Fundamental of Playwriting (2 credits) 1st Semester
With emphasis on plot and plot devices, characterization, theme and dialogue, the students are introduced to the art of play writing. Exercise will be used to develop the student’s grasp and execution of these elements in practice.

THA 219: Introduction to Dance and Music Theatre I (2 credits) 1st Semester
This is an introduction course that exposes students to the general nature and meaning of dance and music in different cultures through an examination of the aesthetic principles of dance and musical modes.

THA 221: Arts of the Theatre (2 credits) 2nd Semester.
This course further seeks to introduce students to various aspects/arts of the theatre, with this they are prepared for workshop in THA 228.

THA 222: Community Theatre (2 credits) 2nd Semester.
This course is designed to expose the students to the need for interaction and relationship between the students and the host community. It is an introductory teaching into the practice of TFD.

THA 223: Children’s Theatre/Puppetry (2 credits) 2nd Semester.
This course is a study of the theatre as a process of child education. It teaches the techniques of working with children in primary schools. Emphasis would be laid on using Children of Okada
community for Saturday Playhouse. Also, the course would be a historical study of the nature, meaning and functions of puppet theatre. Emphasis would be on Nigerian’s and African’s forms of puppetry.

THA 224: Introduction to Dramatic Genres: Tragedy and Comedy (3 Credits) 2nd Semester
The course is basically introductory in nature. It is designed to expose students to the basic theories of tragedy and comedy from the Greeks to Renaissance.

THA 225: Principles of Broadcasting (2 credits) 2nd Semester
This course is designed to enable the students appreciate the fact that the environment can only sustain us when we are able to understand it like our fellow men. On completion of this course, the student should know how to establish a positive relationship with the environment, knowing how to understand environmental language, appreciate the ways of helping the environment to sustain us and understand how to check the various environmental abuses in our society today.

THA 226: Technical Theatre Scene Design 1 (2 credits) 2nd Semester
This course is the practical aspect of the THA 226. Students would be expected to construct and design the set, props and stage lighting. Students would be expected to design a production at the end of the semester.

THA 227: Theatre Management and studio design (2 credits) 2nd Semester
This course is the practical aspect of the THA 227. Students would be expected to manage certain aspects of productions and the administration of the theatre. The course is further designed to give the students knowledge of the business potentials of the theatre as a profession. This course would cover basic techniques of poster, hand bills, brochures and other publicity/advertising material method of theatrical publicity, treating and ticket sales, fundamentals of house management and ushering. This course is also to expose students to the legal aspect of art management and the law-copy right rules and problems.

THA 228: Theatre Workshop (3 credits) 2nd Semester
This is a study of the principles and practice of ensemble production designed to bring together the various department of theatre arts in a workshop production.

THA 229 Introduction to Dance and Music Theatre II (2 credits) 2nd Semester
This course is the practical aspect of the THA 219. Students would be expected to design, compose, choreograph and perform any of their artistic pieces found in their immediate cultural environment.

300 LEVEL

THA 311: Modern African Drama and Theatre (3 credits) 1st Semester
A study of the origins and development of written works of drama in Africa since 1900. The course shows how major African authors have used theatre to respond to their cultural, social and political situations in various regions of the continent.

THA 312: Play Appreciation and Theatre Criticism. (3 credits) 1st Semester
This will further expose students to the theories and principles of play appreciation and analysis. Essentially, it will emphasize the difference between a review and a critique. Students would be expected to use freely materials/ play texts from various ages of the theatre.

THA 313: Research Methods in Theatre Arts (3 credits) 1st Semester
A course in the basic approaches to scientific gathering of data, definition of methodology, collation and analysis of material for research in various areas of theatre following both historical and practically the latest and best models for scholarly rediscovering of information from achievers, libraries and fieldwork.

THA314: Black American Theatre and Drama in the Diaspora. (3 credits) 1st Semester
This is mainly a survey of the major themes, plays, playwrights through the African in Diaspora i.e. The United State, Caribbean; Brazil etc. Theoretical definitions of Black aesthetic will also be discussed.

THA 315: Acting (3 credits) 1st Semester
An introductory course to the origin, theories (school of thought) and practice of acting through the ages. Students will be expected to play roles in an acting joint (project) performance in the 300 level ensemble productions.

THA 316: Theatre Administration and Scenography (3 credits) 1st Semester
Students are to be exposed to basic principles and theories of theatre administration, design and technical aspects of theatre.

THA 317: Directing
An introductory course to the origin, theories (school of thought) and practice of directing through the ages. Students will be expected to direct plays in an acting joint (project) performance in the 300 level ensemble productions.

THA 318: Media Arts Studies I (3 credits) 1st Semester
This is a study that introduces students to the various areas of the media (Radio, Television, Film and other branches of the media). Students would be told to do project on any area of their choice.

THA 319: Dance and Music Theatre (3 credits) 1st Semester
This is a course that exposes students to the theories and practices of dance and music in the theatre. Students are to take part in different African and other music and dances (classical like bata and modern). They are also expected to know the basics of the relevant music to each dance.

THA 331: Educational Theatre and Children Theatre (3 credits) 1st Semester
This is a continuation of the study of theatre as a process of child education. It teaches the techniques of both working with children both at primary and secondary school levels through theatre games; dance and improvisation with a view to cultivating their creative emotion and intellectual faculties as well as their ability to work together harmoniously as members of a team. Student would be expected to go to any secondary school of their choice for the project.

THA 321: Theatre in Africa: A guided Field Study (3 credits) 2nd Semester
This is an intensive study of the tradition in Africa, with field work assignments leading to the presentation of a project.

THA 322: Popular Theatre/Theatre for Development (3 credits) 2nd Semester
This is a theoretical/practical study of popular theatre for development as an art or form and as medium of social mobilization and community development.

THA 323: Author Study (3 credits) 2nd Semester
This is an examination of the works of a specific author. The examination is not restricted to playwrights. For this course, one African and one non-African author would be examined along the line of theme, social relevance, form, content and contextual application.

**THA 324: Production Workshop (3 credits) 2nd Semester**
This course helps students to do intensive work in one of the following areas: drama, music, broadcasting and film, stressing process and growth. The work may lean towards improvisation and experiment.

**THA 325: Acting**
An introductory course to the origin, theories (schools of thought) and practice of acting through the ages. Students will be expected to play roles acting joint (project) performance in the 300 level ensemble productions.

**THA 326: Costume and Makeup (3 credits) 2nd Semester**
The course is an intensive theoretical and practical study of the art of costuming and makeup. Students are meant to build costumes.

**THA 327: Directing II (3 credits) 2nd Semester**
This course is designed to help students actualize those theories/principles that have been acquired through THA 314 in the first semester. Students will be physically involved in directing of a play/scenes from full plays.

**THA 328: Media Arts: Radio/TV, Video, Film and Folk Media II (3 credits) 2nd Semester**
This is a practical study of the techniques and processes in radio, television, video, film and folk media production, leading to actual production project in any of the media. This course will help students to realize what has been taught in THA 318.

**THA 329: Dance and Music Theatre II (3 credits) 2nd Semester**
This course is also designed to help students actualize those existing theories/principles that have been learnt. By this, students are to participate in dance and musical productions.

**THA 341: Educational/Children Theatre II (3 credits) 2nd Semester**
This course has to do with the practical participation with children in formal situation as well as in informal school situation in the arts of the theatre. This is more or less a continuation of THA 331.

**THA 332 Industrial Attachment (3 credits)**
This is a three months training in which the student is expected to work in an organization under the supervision of the course lecturer. The student is expected to put in the knowledge of all the facets of the theatre which they have learnt. The students are expected to keep a record of all the duties perform and submit same to the department for grading.

**400 LEVEL**

**THA 411: Dramatic Theory and Criticism (3 credits) 1st Semester**
This is a study of the main theories and trends in dramatic criticism, its methodologies and approaches from Aristotle to Brecht, using appropriate play texts.

**THA 412: Sociology of Drama and Theatre (3 credits) 1st Semester**
This course deals in some details with the interrelatedness of drama and theatre and society as a whole. It anchors its strength on texts from across ages while exploring influence of theatre on the society and vis a vis. It also seeks to use the theatre for development approach to deal with societal problems.

THA 413: Philosophy and Aesthetics of Theatre I (3 credits) 1st Semester
This course is designed to expose students to the philosophy and aesthetic aspects of the theatre through theories and practices. Its main focus would be on form and content and its different manifestation in various aspects of theatre.

THA 414: Workshop Ensemble I (3 credits) 1st Semester
This is a practical course designed to ensemble performance. The ensemble spirit is very much encouraged in this course. At the end of the course, students will be expected to mount a production reflecting the ensemble nature of the discipline.

THA 415: Acting (3 credits) 1st Semester
THA 315 and 325 are prerequisite to this course. The course is designed to expose the students to the rudiments, technicalities and approaches to professionalism in acting. Also, the students will albeit peripherally, be exposed to the basic differences between stage acting and acting for other electronic media. Students would be required to act and mount independent productions.

THA 416: Theatre Administration and Scenography I (3 credits) 1st Semester
This is an advanced study into the intricate workings of the box office, entries, book balance and accounting systems, house management and stage/studio management crafts. This course further exposes students to the theoretical and practical framework of scene design. This course is part of an ensemble project in which students specializing in Theatre administration and scenography are to creatively, effectively and profitably manage a class production in a professional and artistic manner. At the end of the semester, students would be expected to manage the stage, box office and theatre in general.

THA 417: Directing
Students would be expected to study directorial approaches through the ages. The course is further designed to expose students to the intricacies of professional directing both for the stage and other media. Students are expected to direct one independent production at the end of the semester, at least, one act play.

THA 418: Sociology of the Media: Film, Radio, TV and their attributes I (3 credits) 1st Semester
This course is a comprehensive study of the media, its functions, formats and its interrelatedness with the society. However, particular attention would be paid to the areas of public relation and advertising, their growth and development.

THA 419: Advanced Dance and Music Theatre (3 credits) 1st Semester
This course will further expose students to the theoretical underlining of the arts of dance and music and their compositions. Students would be encouraged to create original dance and music pieces at the end of the semester. Besides, students would be exposed to the arts of dance and music criticism.

THA 431: Playwriting and Theatre Criticism I (3 credits) 1st Semester
This course is an intensive study of the fundamentals of playwriting and theatre criticism with emphasis on plot, plot devices, characterization, theme and dialogue.
THA 421: Topics in Theatre Studies (3 credits) 2nd Semester
A continuation of THA 411, a study of dramatic theories, movements and philosophy. Students would be expected to be familiar with critical works of scholars across the ages and illustrate them with respective texts.

THA 422: Sociology of Drama and Theatre II (3 credits) 2nd Semester
This is a continuation of THA 412. It seeks to discover more about the Interrelatedness of drama and theatre and society as a whole. Like THA 412, it anchors its strength on texts from across ages, it also seeks to use the theatre for development approach as vital way of treating societal problems. Students would be asked to write a project on any area of theatre or drama and how this affect societal life-political, economic and other sphere.

THA 423: Philosophy and Aesthetics II (3 credits) 2nd Semester
This course is designed to intensify the study of philosophy and aesthetics through the use of selected text. Emphasis would be made to appreciate and criticize the chosen works from text to performance.

THA 424: Workshop Ensemble II (3 credits) 2nd Semester
This is a practical course designed to ensemble performance. The ensemble spirit is encouraged in this course. At the end of the course, students would be expected to mount a production reflecting ensemble nature.

THA 425: Acting and Directing II (3 credits) 2nd Semester
This course is aimed at exposing the students further to the theories and various techniques of acting and directing. Students are expected to stage a production at the end of the semester.

THA 426: Scenography, Costume Construction & Make Up II (3 credits) 2nd Semester
THA 417 is a prerequisite for this course. It is a practical study of designing sets, making costumes and making up for productions. Students in this course are to practically realize a project in lighting, set construction or costume design and makeup related to departmental production. Students would be expected to create their own unique designs and construct it for exhibition. Student will also be expected to costume, design and makeup for various productions during the year.

THA 428: Sociology of Media Arts II (3 credits) 2nd Semester
This course intensifies the students’ knowledge of the media in the society and the functionality of the media in showcasing or selling theatrical activities as products, and how these products affect the society and vice versa i.e. films, radio/TV etc. Emphasis would also be made to review the media laws guiding the profession.

THA 429: Advanced Dance and Music Theatre II (3 credits) 2nd Semester
This course is continuation of THA 419. Here, students would be asked to put into practice all they have been taught taking into consideration the plasticity nature of the arts.

THA 441: Playwriting and Criticism II (3 credits) 2nd Semester
This course entails a practical project in playwriting and theatre criticism from conception to actual realization.

THA 442: Long Essay (6 credits) 2nd Semester
This is an individual terminal research project in which the student demonstrates his/her command of knowledge in the field of theatre arts. The project may be academic or practical in either case; it must be accompanied by a written report. The only restriction on the choice of topic is that it may be originally or vitally related to theatre arts.

**APPROVED PROFESSIONAL CODE OF CONDUCT FOR MEMBERS OF THE DEPARTMENT OF THEATRE ARTS**

1. **CALL TIME FOR PERFORMANCE**

Performers are expected to be in the rehearsal venue fifteen minutes before the advertised rehearsal time and at least one hour before the advertised performance time. In addition, all performers should be in their costumes and in the dressing room thirty minutes before performance. Failure to comply with the above, the artists will be deemed not to have participated in the rehearsal/performance.

2. **CONDUCT DURING REHEARSALS/ PERFORMANCE**

In recognition of the fact that the practice of theatre requires the highest degree of discipline, the artist is required to be in full control of himself. The artist is therefore strongly advised to avoid the following acts:

a) Artists are not allowed to eat or chew in the theatre.

b) Visitors are not allowed into the theatre during rehearsal.

c) Under no circumstances should cast members receive visitors within or around the theatre during rehearsals.

d) No smoking or drinking of alcohol is allowed in the theatre (cast members are strongly advised to abstain from taking alcohol or any stimulant before rehearsal/performance.

e) Phone calls are not allowed during rehearsals or performances. All phones are expected to be submitted to the Stage Manager before the beginning of the rehearsal/performance.

3. **QUARRELING**

Theatre artists are known to have good sense of humour but humour that is offensive must be avoided at all cost, and apology rendered to the offended party.

4. **AGGRIEVED PERSONS**

Quarrelling must be avoided during rehearsal/production, it is the responsibility of the offended party to report cases of provocation/molestation to the artistic director, rather than engage in any activity that may amount to a disturbance of the smooth running of the rehearsal/production.

- Fighting is STRICTLY prohibited in the theatre.
- Under no circumstance should an aggrieved person take the law into his or her hands.

5. **MEMBERSHIP OF CULT**

No member of the department should be affiliated to any cult. Membership of such cult is highly prohibited for both staff and students. This is because the activities of such cult are diametrically opposed to the ideals of theatre.

6. **THEFT**

Removal of any item from the theatre or department without official permission shall be treated as a case of theft. This is a serious offence in the theatre that must be avoided by all.
7. **HANDLING OF PROPS AND COSTUMES**
   (a) Every props and costumes used during production MUST be returned in good condition to the store by the cast members before leaving the theatre. Care for hand props and costumes are the responsibilities of the individual users.
   (b) Any damage to any prop or costume should be promptly reported to the stage manager who will report to the appropriate authority.
   (c) Any user or handler of a prop or costume will be surcharged for any will-full damage.

8. **HANDLING OF SCRIPTS.**
   (a) All cast members are required to recognize the fact that scripts given to them are properties of the department/directors so can be withdrawn at any time.
   (b) Scripts must be brought to the rehearsals. An actor who fails to bring his script and a pencil/writing material to rehearsal will be deemed to have been absent for that rehearsal.

9. **TOURS**
   i. Only performers/crew member for the production at hand would be allowed to proceed on tour.
   ii. All performers/crew members must travel only in the officially provided means of transport for that tour.
   iii. While on tour, all performers/crew members must be content with the accommodation officially provided for the trip. No private accommodation arrangement by cast members would be allowed.
   iv. Un-authorized movements by cast/crew members on tour will not be allowed / tolerated.

10. **DRESS ETHICS**
    a) Artists are required to appear decent and presentable at all time.
    b) Performers are not allowed to use jewelries or foot-wears on stage (unless they are part of the costume for individual actors).
    c) Performers are required to attend rehearsals only in their workshop out-fit.

    *** For the avoidance of doubt, workshop out-fit referred to are:
        jeans trousers, culottes, leotards or any decent outfit that allows for free-movement during stage exercises

11. **PRIVATE PRODUCTIONS**
    Students are allowed to participate in artistically rewarding private production so long as they do not clash with departmental interests/responsibilities.

12. **TRIVIAL ACTIVITIES**
Students of the department are prohibited from participating in trivial activities that could soil the image of the profession. Activities like; beauty contest, drinking and smoking competition, pyjamas party, pimping or other harmonious activities.

13. **INSUBORDINATION**  
a) Theatre business calls for collaborative efforts by all concerned. Therefore, no artist should see himself/herself working contrary to the team-spirit. All artists MUST obey instructions from constituted authorities e.g. stage manage, director and heads of the different production units.

b) Cases of insubordination will be viewed seriously for appropriate sanctions by the departmental disciplinary committee.

14. **LATENESS/ABSENTEEISM**  
a) Any artists who arrive later than the prescribed call time shall be treated as absent. An artist who has a cogent reason for lateness should notify the director beforehand.

b) Cases of absenteeism during rehearsals/productions are considered as very serious offenses/sabotage in theatre. Due to the practical nature of theatre training, a lot of emphasis is given to physical presence during lectures/rehearsals.

15. **CHANNEL OF COMMUNICATION**  
The appropriate channel of communication should be observed at all times. When in doubt, members of the department are advised to clarify from the staff adviser or head of department. Better results are achieved when members avoid breeching protocol.

16. **STAFFING**  
Our department is well staffed with people who have the academic experience to train and nurture a total professional in the field of the Theatre and Media Studies. The following are the academic staff of the department.

**Academic Staff List**

<table>
<thead>
<tr>
<th>S/ N</th>
<th>NAME</th>
<th>RANK</th>
<th>QUALIFICATION</th>
<th>SPECIALIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Praise C. Daniel-Im</td>
<td>Lect. 1</td>
<td>B.A (Hons) M.A, PhD.</td>
<td>Acting, Media Arts Playwriting, Children’s Theatre</td>
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<td></td>
<td>Ag. H.O.D</td>
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<tr>
<td>2.</td>
<td>Prof. Mabel Evwierhoma</td>
<td>Prof.</td>
<td>B.A (Hons) M.A, PhD.</td>
<td>Dramatic Theory &amp; Criticism</td>
</tr>
<tr>
<td>3.</td>
<td>Mr Eshiet I. James</td>
<td>Lect II</td>
<td>B.A (Hons) M.A</td>
<td>Dramatic Literature, Acting and Directing</td>
</tr>
</tbody>
</table>
COLLEGE OF BUSINESS AND MANAGEMENT STUDIES
DEPARTMENT OF ACCOUNTING
B. Sc. (ACCOUNTING) CURRICULUM

PROGRAMME PHILOSOPHY AND OBJECTIVES

PHILOSOPHY
The department shall prepare students for the award of B. Sc. (Accounting) Degree of this University. The purpose of the B. Sc. (Accounting) degree programme is to produce competent academic & professional accountants and financial experts. The programme shall familiarize students with the basic theoretical and practical tools and techniques required for excellent performance in their future professional work.

OBJECTIVES

a) To provide a highly motivated academic environment that fosters the academically minded to pursue further studies and research in management.
b) To develop high level manpower for the country
c) To contribute to the supply of academic and professional accountants both for Nigerian Universities and Nigerian industries.

ADMISSION REQUIREMENTS

In addition to the general university requirements, the following regulations shall apply to the admission of students into the department.

DIRECT ENTRY REQUIREMENT

i) Two ‘A’ level passes in Economics or Accounting and an additional subsidiary subject. Candidates are expected to possess five credits at SSCE/GCE ‘O’ Level or their equivalent in subjects which include English Language, Mathematics and Economics. Results at ‘O’ level and ‘A’ level must be attained at not more than two sittings or

ii) A National Diploma Certificate from approved universities or colleges of technology of Polytechnics with a grade not lower than merit. In addition, the applicant must possess five credits at SSCE/GCE ‘O’ level or its equivalent in subjects which includes English language, Mathematics, and Economics

iii) Any credential approved by the senate of the University.

a) UME
Five ‘O’ level credits including English language, Mathematics, Economics and any two other relevant subjects from any Government approved examining body e.g. WAEC, NECO and NABTEB

PROGRAMME/DISCIPLINE
Structure to include period of formal studies in the University; industrial training, planned visits and projects.

The B. Sc. Accounting programme is structured as follows:

i) A four-year programme for UME entrants

ii) A three-year program for Direct entrants

At the end of the third year programme, students are permitted to undergo a three months Industrial training in various industries. The purpose is to enable them acquire practical orientation/exposure in area that bear direct relevance to accounting theory and practice.

REGULATIONS GOVERNING COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ACCOUNTING

1. A four-year programme of course shall be provided leading to the degree of Bachelor of Science to be denoted by the letter B.Sc. which may be awarded with Honours or as a Pass Degree in Accounting.

2. Instruction in the department shall be by courses and students will be required to take an approved combination of courses in the University approved by Senate, or the recommendation to the departmental Board, as may be determined from time to time.

3. Courses shall be evaluated in terms of course units. One course unit shall be defined as one lecture contact hour per week, while three course units shall be defined as 3 lecture contact hour per week.

4. There shall be four levels of courses; numbered 111 – 199, 211 – 399 ands 411 – 499. course numbers shall be prefixed by a three-character programme/subject code. Determination of the class of degree shall be based on performance at all levels.
The courses are currently numbered 111 – 499 under the four-year Degree programme systems.

5. To earn a degree, all core courses must be taken and passed.

6. Every course shall be examined during the semester in which it is offered and candidates will be credited with those courses in which they have passed.

7. Continuous assessment shall be regarded as part of course examinations, but marks scored through continuous assessment shall not constitute more than 30% of the full marks for the course.

8. The approved period of study for the award of the degree shall not be less than 6 semesters for direct entry students and 8 semesters for UME students.

9. (i) The cumulative (CGPA) Grade Point Average System shall be used for determination of Class of Degree.

(ii) The CGPA of candidates will be determined by the sum of the weighted grade point divided by the total units of all courses registered for, passed or failed.

(iii) Only the weighted average system shall be used in determining the grade point average.

(iv) No student whose grade point average is below 1.0 shall be awarded a degree.
10. A student shall normally be required to withdraw from the department if he fails to achieve 1.0 CGPA after two consecutive years.

11. The list of successful candidates for the degree shall be published with the following classifications: First Class Honours, Second Class Honours (Upper and Lower Divisions), Third Class Honours and Pass.

12. All Undergraduate courses shall be full time.

GUIDELINES FOR EXAMINATION AND GRADING

1. In order to obtain the Cumulative Grade Point Average of a candidate the appropriate index (Grade Points) assigned to each range of numerical marks is multiplied by the course unit and the product is added up. The total is divided by total units of courses registered.

2. The final marks for any course shall be a whole number. The grade of the marks shall be awarded on the basis of the final aggregate marks as follows:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Point</th>
<th>Mark %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>70 and above</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>60 – 69</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>50 – 59</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>45 – 49</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0 – 44</td>
</tr>
</tbody>
</table>

Cumulative Grade Point Average and Class of Degree

<table>
<thead>
<tr>
<th>Cumulative Grade Point Average</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 and above</td>
<td>First Class</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>Second Class Honours Upper Division</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second Class Honours Lower Division</td>
</tr>
<tr>
<td>1.5 – 2.39</td>
<td>Third Class Honours</td>
</tr>
</tbody>
</table>

The degree shall be awarded with honours provided a student obtains a Cumulative Grade Point Average that is not less than 1.5 and satisfied the minimum honours requirements.

3. Examination

The following procedures and guidelines are operative:

a. All lecturers are allowed to set a minimum of twelve questions in their courses while the chief examiner chooses five questions in each of the courses, students are then allowed to choose four questions.

b. No examination at 400 level shall be administered unless moderated by external examiners approved by the Senate.

c. The time allowed for written examination shall normally be on the basis of not less than 2½ hours and not more than 1 hour for each unit course. The time allowed for any one-theory paper shall not exceed 3 hours.

d. Not more than 1 course shall be examined in one paper.
e. Other forms of examinations may include practical examinations, inspection and assessment of practical work, not books, project work, special reports, and the forms of the examination must be specified by the department and approved by Senate on the recommendation of the Departmental Board.

4. **Grading**
   i. All courses shall be graded out of maximum of 100 marks and all marks shall be returned in numerical scores.
   ii. A candidate who obtains less than 45 marks shall be deemed to have failed the course.

15. **Graduating Requirements**
The degree of Bachelor of Science in Accounting is a four year programme. A student may, however acquire the degree in less than four years provided the requirement for the degree have been met.

To be eligible for the degree, students must have:

1. Passed all core courses and any elective recommended for specialization.
2. Accumulated at least 176 course units and obtained a CGPA of not less than 1.5.
3. Successfully completed the mandatory industrial training and Research project.
# AMENDED COURSE SCHEDULE
## 100 LEVEL

### First Semester Course Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACC 111</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BFN 111</td>
<td>Introduction to Finance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BUS 111</td>
<td>Introduction to Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ECO 111</td>
<td>Principles of Economics I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>MTH 111</td>
<td>Elementary Mathematics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>GST 111</td>
<td>Communication in English I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>GST 112</td>
<td>Logic, Philosophy and Human Existence</td>
<td>2</td>
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<td>8</td>
<td>GST 113</td>
<td>Nigerian Peoples and Culture</td>
<td>2</td>
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### Second Semester Courses Offerings

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<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
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<th>REMARKS</th>
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<tr>
<td>1</td>
<td>ACC 121</td>
<td>Principles of Financial Accounting</td>
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<td></td>
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<tr>
<td>2</td>
<td>BFN 121</td>
<td>Introduction to Money and Banking</td>
<td>3</td>
<td></td>
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<tr>
<td>3</td>
<td>ECO 121</td>
<td>Principles of Economics II</td>
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<td></td>
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<tr>
<td>4</td>
<td>MTH 122</td>
<td>Elementary Mathematics II</td>
<td>3</td>
<td></td>
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<tr>
<td>5</td>
<td>GST 121</td>
<td>Use of Library study skills and ICT</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>GST 122</td>
<td>Communication in English II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>GST 123</td>
<td>Communication in French</td>
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### Total

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<th>CREDIT UNITS</th>
<th>REMARKS</th>
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<tr>
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<tr>
<td>Grand total</td>
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## 200 LEVEL

### First Semester Course Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>ACC 211</td>
<td>Financial Accounting I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ACC 212</td>
<td>Business Statistics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>ACC 213</td>
<td>Cost Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ACC 214</td>
<td>Computer application in Accounting</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>BUS 211</td>
<td>Principles of Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>ECO 211</td>
<td>Micro-Economics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>EPS 211</td>
<td>Entrepreneurship studies</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>GST 211</td>
<td>History &amp; Philosophy of Science</td>
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### Total

<table>
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<tr>
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<th>REMARKS</th>
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### Second Semester Courses Offerings

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<th>COURSE TITLE</th>
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<th>REMARKS</th>
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<tbody>
<tr>
<td>1</td>
<td>ACC 221</td>
<td>Financial Accounting II</td>
<td>3</td>
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<tr>
<td>2</td>
<td>ACC 222</td>
<td>Advanced Cost Accounting</td>
<td>3</td>
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</tbody>
</table>
ACC 223 Business Statistics II 3
ACC 224 Business Communication 2
ACC 225 Computer Application in Accounting 2
BFN 223 Business and Corporate Finance 3
ECO 221 Macro-Economics 2
GST 221 Peace studies and Conflict Resolution 2

Total 20
Grand Total 40

ACC 111 and ACC 121 are pre-requisites for ACC 211 and ACC 221 respectively.

300 LEVEL

First Semester Course Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
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<tbody>
<tr>
<td>1</td>
<td>ACC 311</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>ACC 312</td>
<td>Laws &amp; Accounts of Bankruptcy</td>
<td>2</td>
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<tr>
<td>3</td>
<td>ACC 313</td>
<td>Financial Management I</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>ACC 314</td>
<td>Management Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>ACC 315</td>
<td>Auditing I</td>
<td>3</td>
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<tr>
<td>6</td>
<td>BUS 314</td>
<td>Production Management</td>
<td>3</td>
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<tr>
<td>7</td>
<td>EPS 311</td>
<td>Entrepreneurial Studies</td>
<td>2</td>
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<tr>
<td>8</td>
<td>LAW 313</td>
<td>Business Law</td>
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Second Semester Courses Offerings

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<th>S/N</th>
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<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>ACC 321</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>ACC 322</td>
<td>Taxation I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>ACC 323</td>
<td>Financial Management II</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>ACC 327</td>
<td>Quantitative Analysis for Business Decisions</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>BUS 324</td>
<td>Business Research Methods</td>
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<td>6</td>
<td>LAW 323</td>
<td>Company Law</td>
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<tr>
<td>7</td>
<td>POL 322</td>
<td>Element of Government</td>
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<td>Grand total 40</td>
</tr>
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</table>

ACC 211 and ACC 221 are pre-requisite for ACC 311 and ACC 321, respectively.
## 400 LEVEL

### First Semester Course Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACC 411</td>
<td>Advanced Financial Accounting I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ACC 412</td>
<td>Public Sector Accounting &amp; Public Finance I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>ACC 414</td>
<td>Management Accounting II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ACC 415</td>
<td>Auditing II &amp; Investigation</td>
<td>3</td>
<td></td>
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<tr>
<td>5</td>
<td>ACC 416</td>
<td>Accounting Ethics</td>
<td>3</td>
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<tr>
<td>6</td>
<td>ACC 417</td>
<td>Theory of Accounting</td>
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<td>7</td>
<td>ACC 418</td>
<td>Industrial Work Experience</td>
<td>2</td>
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<tr>
<td>8</td>
<td>BUS 411</td>
<td>Business Policy and Strategic Management I</td>
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</table>

### Second Semester Courses Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACC 421</td>
<td>Advanced Financial Accounting II</td>
<td>3</td>
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<tr>
<td>2</td>
<td>ACC 422</td>
<td>Management Information System</td>
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<td>3</td>
<td>ACC 423</td>
<td>Taxation II</td>
<td>3</td>
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<td>4</td>
<td>ACC 424</td>
<td>International Accounting</td>
<td>3</td>
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<tr>
<td>5</td>
<td>ACC 425</td>
<td>Public Sector Accounting Public Finance II</td>
<td>3</td>
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<td>6</td>
<td>ACC 426</td>
<td>Multi-Disciplinary Case Study</td>
<td>3</td>
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</tr>
<tr>
<td>7</td>
<td>BUS 421</td>
<td>Business Policy and Strategic Management II</td>
<td>2</td>
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<tr>
<td>8</td>
<td>ACC 429</td>
<td>Research Project</td>
<td>6</td>
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</tr>
</tbody>
</table>

ACC 311 and ACC 321 are pre-requisite for ACC 411 and ACC 421 respectively.

### COURSE DESCRIPTION

#### 100 LEVEL

### FIRST SEMESTER

**ACC 111: Introduction to Financial Accounting I (4 credit units)**
The nature and scope of Accounting; the role of accountants, the accounting functions and relationship with the information system of organization, definition of accounting, historical background of accounting. Source documents and their uses, subsidiary books; meaning, types and preparation; sales day book, purchases day book, returns inwards day book, returns outward day book and journal proper. The accounting equation, double entry principle – books of accounts, including cash book, ledgers, petty cash book and imprest system, posting of entries in the subsidiary books to the ledger, the trial balance, meaning and purpose of the trial balance, errors affecting the trial balance, errors not affecting the trial balance; correction of errors and the uses of suspense accounts. Final accounts of sole traders including adjustment for: provision for depreciation, provision for bad debts, accruals and prepayments. Classification of expenditure between capital and revenue. Bank reconciliation statement and adjustment of the cashbook. Introduction to Accounting Standards, History of NASB, IASC, IASB, SAS, IAS, IFRS and Financial Reporting Council of Nigeria.(FRCN)
BFN 111: Introduction to Finance (3 credit units)
An introduction to the study of Finance, definition, nature and risks of finance; The firm and its financial objectives and financial decisions; the finance function: financial management as tool for Planning and Control”; Financial intermediaries; financial Markets and instruments there in; the Stock Exchange; Finance Business; Sources and choice of fund acquisition: Capital budgeting.

BUS 111: Introduction to Business I (3 credit units)
The objective of this course is to introduce the beginning students of Business, Accounting, Banking and Finance, Economics, and related social science disciplines to the basic elements of the study of business administration Topics covered include: survey of business, the modern business world, the composition, nature and functions of the business enterprise as well as its role as a social and economic unit.

ECO: 111 Principles of Economics I (3 credit units)
This course is an introduction to microeconomic theory. Topics covered include basic concept of scarcity, choice, opportunity costs, scale of preference, the methodology of Economics, Market mechanism, including demand, supply and price determination; theories of consumers behaviour theory of production, theory of the firm, cost of production, pricing and output under perfect competition, monopoly, monopolistic competition and oligopoly, etc.

MTH 111: Elementary Mathematics I (3 credit units)

GST 111: Communication in English 1 (2 credit units)
The course will consolidate the fundamentals of English Language including the following: nouns and pronouns (types and features), verbs and tenses (varieties), adjectives and adverbs (varieties, features, and functions), conjunctions, prepositions, interjections, clauses (types), and sentences (types). Language skills of listening, speaking, reading, and writing. Choosing topics for writing (planning, assembling and organizing points, outline preparation, factors of unity, coherence, context, originality, mechanical accuracy, and paragraph development). Forms of writing, including narrative, descriptive, expository, argumentative, summary, correspondences, and speech writing. Brief history of libraries. Library and education. University libraries and other types of libraries. Using library resources in enhancing study skills. These include understanding cataloguing systems and classifications, locating books and journals, lending/borrowing, e-learning, e-materials, other reference materials, and indexing. Copyright and its implications. Database resources, bibliographic citations, and referencing.

GST 112: Philosophy, Logic, and Human Existence (2 credit units)
A study of the main branches of philosophy and logic. Logic will deal with the following: Symbolic Logic; special symbols in symbolic logic-conjunction, negation, affirmation, disjunction, equivalence and conditional statements; method of deduction, rules of inference and bio-conditions qualification theory. Legal studies will include Nature of law, Characteristics of the Nigerian Legal System, Classification of Nigerian Law, Functions of Law in the society, Human Rights.
GST 113: Nigerian Peoples and Culture (2 credit units)
A study of Nigerian history and culture from pre-colonial times, including the Nigerian’s perception of his world; culture areas of Nigeria and their characteristics; evolution of Nigeria as a political entity; concept of functional education; national economy; balance of trade; economic self-reliance; social justice; individual and national development; norms and values; environmental sanitation; principles of good and bad, right and wrong; moral implications of our choices, judgments and actions; morality versus expediency; the role of conscience; moral obligations of citizens.

SECOND SEMESTER

ACC 121: Introduction to Financial Accounting II (4 credit units)

BFN 121: Introduction to Money and Banking (3 credit units)
Nature, forms and functions of Money: theories of Commercial Banking Institutions; the Banks and Money Supply; Money and Capital Markets; Monetary and Fiscal Policies; Inflation and Credit Creation; History of Banking in Nigeria; Development of the Central Bank; General Principles of Bank Lending; Bank Services; Methods of Payment through the banking system both domestic and overseas; the statement of financial position structure; the protection of deposits funds; reserve and liquid assets requirements

ECO 121: Principles of Economics II (3 credit units)
This course is basically an introductory course on the Macro-economics aspect of economic theory. Topics covered include the subject matter of economics and basic economic problems; the methodology of economics science and the general principles r resource allocation; national income accounting including elementary models of income and employment; money and banking employment and unemployment; public finance including government budget; international trade; balance of payments and economic growth and development.

MTH 122 Elementary Mathematics II (3 credit units)

GST 121: Use of Library study Skills & ICT (2 credit unit)
GST 123: Communication in French (2 credit units)

200 LEVEL

FIRST SEMESTER

ACC 211: Financial Accounting I (4 credit units)
Review of ACC 121, Further problems on incomplete records, preparation and presentation of final accounts of non-commercial organizations such as clubs, societies, trade unions, churches, mosques etc. Reserves and provisions, accounting treatment of fixed assets and current assets based on SAS 3, introduction to partnership accounts including the final accounts. Changes in partnership: admission/death/retirement of partners including treatment of goodwill, partnership case laws; dissolution of partnership-piecemeal realization in partnership. Joint Venture Accounts. IASB Framework for the Preparation and Presentation of Financial Statements, IFRS I: First time adoption of IFRSs.

ACC 212: Business Statistics I (3 credit units)
Nature of statistics, statistical inquiries, forms and designs, the role of statistics, basic concept in statistics, discrete and continuous variables. Functional relationship, sources of data, method of collecting primary data. Presentation of statistical data, measures of central tendency, measures of distribution – normal, binomial, Poisson and hyper geometric.

ACC 213: Cost Accounting (3 credit units)

ACC 214: Computer Application in Accounting (3 credit units)

ACC 214 COMPUTER APPLICATIONS IN ACCOUNTING
(COURSE DESCRIPTION)
The course offers a general introduction to computer science, evolution of computers and computer technology, generations and classifications of computer architecture; hardware and software techniques and applications; components of a computer system; basic concepts of computer algorithms, programming languages and programming; introduction to computer networks; use of keyboard and mouse as input devices, windows, word processing, spreadsheets and presentation slides; organization chart of computer centre, categories of computer application, use of computers, advantages and disadvantages of computers, introduction to word processing; Data communication (Basic concept and methods of computer networks, internet and e-mail concept) Data processing
(properties, types of processing, batch processing), number representation (binary mathematics, number conversion) computer viruses and protections.

**BUS 211: Principles of Management  (3 credit units)**

This course is a general introduction to the concept, principles, processes, and significance of management within in the context of business and non-business organizations. The course examines in depth the primary managerial activities of planning, organizing, staffing, coordinating, motivating, directing, budgeting, and controlling.

**ECO 211: Micro Economic Theory  (3 credit units)**

The course builds on the foundation students were exposed to in ECO 111. Topics covered include: Theory of consumer behaviour: utility approach, Indifference curve approach, Topics in consumer demand; market structures, output and pricing under values market structures – perfect competition, monopoly, monopolistic competition, oligopoly. The theory of distribution under perfect competition, input pricing and employment under imperfect competition.

**EPS 211: Entrepreneurial Studies**

The principles and practice of entrepreneurship leading to self-employment. Focus on the concept of entrepreneurship, the basic characteristics required for successful performance as an entrepreneur, types of entrepreneurs and their role demands; identification and evaluation of business opportunities, entrepreneurial resources or business prospects; feasibility study; developing a business plan, conducting a market survey, sourcing finance, setting up a business organization; the problem of succession, and financing and managing growth in entrepreneurial firms; consumer research; keeping of basic business accounting records.

**GST 211: History and Philosophy of Science  (2 credit units)**

An investigation of the origin of life – the evolutionary concept vis-à-vis that of creation; man and his cosmic environment; definition of science and branches of science; developments in science from ancient times to the present; inventors and inventions; science and man; energy forms, sources and implications; Renewable and non-renewable resources; environmental effects of chemicals, plastics, textiles, wastes and other materials; chemical and radio-chemical hazards; introduction to the various areas of science and technology.

**SECOND SEMESTER**

**ACC 221: Financial Accounting II  (3 credit units)**

ACC 222: Advanced Cost Accounting (3 credit units)
Marginal costing; differentiate from absorption costing, treatment of relevant cost, limiting factors, marginal costing for managerial decision making. Standard Costing; types of standard costing, adjustment of standard, preparation of operating statements using standard costing variance analysis, quantity, rate, cost and efficiency variances, budgetary control variance. Budgets and budgetary control, types of budgets, budget preparation, principal budget factor, these budget manual, flexible budgeting, budgetary control techniques, behavioural aspects of budgeting; topical issues in cost accounting.

ACC 223: Business Statistics II (3 credit units)
This course focuses on inferential statistics. A study of the methods of making inferences or drawing conclusions from sample data to the statistical population from which the sample was drawn and making decisions or predictions about the population parameters of interest based on sample data. The topics include hypothesis testing and estimation. Contingency table analysis and chi-square applications, simple and multiple regression analysis, analysis of variance and covariance.

ACC 224: Business Communication

ACC 225 Computer Application in Accounting
This course focuses on practical training on accounting softwares such as peachtree accounting, quickbook enterprises and other related softwares such as SPSS etc. Application of computers in social and natural sciences, humanities, education and management sciences. The course offers hands on practice using Microsoft word, Excel and powerpoint

BFN 223: Business and Corporate Finance (3 credit units)
Working capital management: sources of short term funds, optional working capital level and its application to the control of credit facility; inventory/stock management, cash and short term loan and overdraft; management of long-term finance, determination of cost of capital optional structure, capital market institution and regulatory agency, the market for new issues and methods of issue, the secondary market, lease financing.

ECO 221: Macro Economic Theory (3 credit units)
This course builds on the foundation students were exposed to in ECO 121. It is primarily concerned with the study of relationships between broad economic aggregates. Topics include National Income (accounting and determination) aggregates saving and consumers’ expenditure, investment, employment, money supply, price levels, balance of payment. The course attempts to explain the determinants of the magnitude of these aggregates and their rates of change-over time.
GST 221: Peace studies and Conflict Resolution

300 LEVEL

FIRST SEMESTER

ACC 311: Intermediate Financial Accounting I (4 credit units)

ACC 312: The Law and Accounts of Bankruptcy, Executorships and Trust (3 credit units)

ACC 313: Financial Management I (3 credit units)
Review of topics covered in BFN 111 and BFN 223. Dividend policy and internal financing; portfolio theory and management, efficient market hypothesis, securities valuation, risk and diversification capital asset pricing model, etc. Foreign currency transactions, analysis and interpretation of financial statements and reports, business failures. (Same as BFN 313)
ACC 314: Management Accounting 1 (3 credit units)

The nature and function of management Accounting. The dual purpose of planning and control. Costs for decision making, marginal costing and contribution analysis, break-even analysis, cost-volume profit analysis; assumptions, effect of charges in costs and prices on break-even point, margin of safety, sales mix and CPV charts. The concept of opportunity cost and limiting factors. Learning curve theory, budgeting and budgetary control, application of qualitative techniques e.g. statistical methods such as least squares, standard deviation, correlation, regression etc. Standard costing, all variances including profit, contribution mix and yield variances. Interpretation of variances for management decision, planning and operational variances.

ACC 315: Auditing I (3 credit units)

Nature and purpose of an audit. Rules and ethics governing the work of an auditor, professional independence of the auditor and his legal status, appointment, resignation and removal of the auditor. Relationship with directors and management, duties, rights and remuneration of the auditors, his professional responsibilities and liabilities. Planning, controlling and recording an audit, internal controlling and recording and audit, internal and external audit, internal control systems, audit procedure. Audit of cash transactions, impersonal ledger, verification of assets, statement of financial position audit and post-statement of financial position events.

LAW 313: Business Law (3 credit units)

The Nigerian legal system, sources of Nigerian law, division of powers between the federal and state governments, status law (its legislations and interpretations, history and development of common law and equity laws). Hierarchy of Nigerian law courts, distribution between civil and criminal liability. The nature of tort, the basis and extent of various types of interest in their legal person, corporate personalities of the doctrine of ultra vires of contract. Law of commercial agency, sales of goods, carriage goods, negotiable instruments, hire purchase and installment purchase; suretyship and guarantees, pledge, lease and exchange control.

BUS 314: Production Management

EPS 311: Entrepreneurial Studies
SECOND SEMESTER

ACC 321: Intermediate Financial Accounting II (4 credit units)

ACC 322: Taxation I (3 credit units)

ACC 323: Financial Management II (3 credit units)
Capital reconstruction, mergers and acquisitions, capital rationing, mutually exclusive investment, tax influence and investment incentives. Gearing theories, traditional view, the Modiglian Mill hypothesis, borrowing limits, dividends and retention policies. Capital investment decisions-investment criteria-payback, rate of return on capital, DCF, NPV, IRR, profitability index, uncertainty and risk analysis. (Same as BFN 323)

ACC 327: Quantitative Analysis for Business Decisions (3 credit units)
This course introduces the students of accounting to the tools of management science methodology commonly used in management’s efforts to understand and analyze varieties of business problems. The course content will focus on mathematical programming: Linear programming: theory and practice, special types of linear programming problems—the transportation problem, transshipment problem, and assignment problem and their applications in business. Network models, including PERT-CPM techniques and their applications in project management. Dynamic programming; Game theory: two-person, zero-sum games and their applications in management decision situations. Probabilistic Models: Queuing theory, Inventory control models, Markov decision processes and their applications; Decision theory; Decision support systems. Applications of computer software and packages, including using the Internet, in QA research and problem-solving.
BUS 324: Business Research Methods (3 credit units)

Basic concepts in scientific inquiry, scientific research, meaning, basic and applied research concepts, theories, laws, hypothesis, research design, choosing a research topic. Problem analysis, literature review, model building conceptual framework. The research proposal sampling techniques. Data collection techniques, data types (primary, secondary data collection strategies, surveys, experiments, content analysis motivation research, data collection instruments e.g. (a) the interview (b) the questionnaire: data measurement, analysis and interpretation; measurement scaling, validity, reliability analysis; qualitative statistical data presentation – tables, charts, cross tabs, etc. Report audience, types and length, mechanical aids, (footnotes, maps, charts, etc) business research in Nigerian scope, Problems and possibilities. References, types.

LAW 323: Company Law (3 credit units)

Types of companies, company function, procedures and documentation, issue and transfer of shares, shares versus debentures, member, meeting and resolution, duties of officers/directors; secretaries, auditors, etc. Prospectus and statutory books. Profits available for distribution, holding and subsidiary companies. Powers and duties of liquidators, secretarial practices, provisions related to disclosure in corporate accounts; Reconstructions and amalgamations and takeovers, companies Acts of 1968 (as amended), Companies and Allied Matters Acts of 1990 as amended.

POL 322: Elements of Government (3 credit units)

400 LEVEL

FIRST SEMESTER

ACC 411: Advance Financial Accounting I (4 credit units)


ACC 412: Public Sector Accounting &Public Finance I (3 credit units)

**ACC 414: Management Accounting II (3 credit units)**

Capital investment appraisal techniques (Returns on capital employed, payback method, discounting techniques). Measurement of divisional performance and control in divisionalised companies including behavioural aspects of accounting, presentation of management information. Pricing and output decisions, transfer pricing, uncertainty and risk analysis, value added, cost reduction and value analysis, cost benefit analysis. Cost estimation, multiple regression and analysis, application of linear programming techniques to a variety of management accounting; problems and limitations of linear programming.

**ACC 415: Auditing and Investigation II (3 credit units)**

Nature, types and methods of investigation; distinction between auditing and investigation. Audit evidence, techniques and procedure including computer assisted techniques, audit report, reporting for different investigations, quality control, review of financial statements, ethics, special engagements and investigations. Recent developments in auditing. Comparative study of auditors responsibility and reporting in different countries.

**ACC 416: Accounting Ethics (3 credit units)**

**ACC 417: Financial Accounting Theory (3 credit units)**

The nature of theory; tools of theory, actions and rules, theory and principles, uses of theory, general accounting theory, consideration of structure of statement of Accounting Standard (SAS) and selected Standards in International Accounting Standards IAS.

**ACC 418: Industrial Work Experience (3 credit units)**

Students are expected to utilize their 300 level 3 months vocation for industrial training, this will be supervised and graded.
BUS 411: Strategic Management and Business Policy I  (3 credit units)

Integrated and multi-disciplinary approaches in solving business problems. Corporate planning and control, strategic planning and control, management planning and control with particular reference to personnel, marketing and production administration, conflicts between management control and strategic planning, operation management’s, planning and controlling specific tasks.

SECOND SEMESTER

ACC 421: Advanced Financial Accounting II  (4 credit units)
Interpretation of accounts including the use of accounting ratios, fund flow statements, accounting for inflation, Nigerian and international accounting standards, miscellaneous accounts such as contract awards, accounts of different types of financial institutions, accounts of real estate, oil and gas accounting, accounting theory relating to income, depreciation, inventory valuation, goodwill, research and development and other deferred revenue expenditure, consistency, comparability, flexibility etc. pooling of interest” Interpretation of group financial statements IAS 7: Statement of Cash flow, IAS 10: Events After the Reporting Date, IAS 24: Related Party Disclosure, IAS 33: Earnings Per Share, IAS 34: Interim Financial Reporting, IFRS 10: Consolidated Financial Statement, IFRS12: Disclosure of Interest in other Entities

ACC 422: Management Information Systems  (3 credit units)
The meaning, objective and requirement of MIS in organization. Information needs of management and design of MIS, managerial need of the information output as a basis for developing criteria and systems. Computer environment and sue of computer based techniques. Electronic data processing (EDP) methods; batch processing, real-time processing. Computer reports: - error reports, exception reports, etc. report format, form design. Flow charting, networking systems analysis. Design techniques and documentation. User environment in systems development and life cycle. Computer service bureau and cyber services; office automation; Email, internet, etc.

ACC 423: Taxation II  (3 credit units)
Administration and computation of petroleum profit taxes; principle, allowances and assessments, capital gains tax & capital transfer tax; principle and computations tax management, client’s taxation advisory service and management of tax practices in relation with revenue authority, nature and purpose of revenue nature, tax avoidance and anti-avoidance laws, investigators by inland revenue back-duty, practical assessment procedure in tax office. Implication of taxation on investment.
ACC 424: International Accounting  (3 credit units)

Problems of fluctuation exchange rates accounts for foreign branches and subsidiaries. The problems of different regulating frameworks and standard in preparation of accounts of multinational companies. Intergovernmental national income comparisons. Project financing institutions like the World Bank, IMF, IPO, UNO in different countries. Investment and disclosure by parent companies, methods of transfer of dividends, cost of foreign subsidiary, control problem of foreign companies, methods of transfer of foreign dividends, cost of foreign product, funds for foreign directors etc. National and International Standard governing these treatment of international Accounting Standards (IAS).

ACC 425: Public Sector Accounting & Public Finance II (3 credit units)

Final accounts of local government, health institution, educational institutional parastatals, use of audit department. Cash benefit analysis, planning programming and budgeting system. Federal government controls, public audit and accountability, public debt and fiscal policy, funded and unfounded debts, pensions and gratuities. Recent developments and issues in the public sector – implication of Nigeria’s membership in ECOWAS, effect of restructuring public sector, etc. External loans; multilateral, Paris Club, London club, promissory notes, etc, loans policy and consolidation loan rescheduling, equity swap, debt forgiveness. History and evolution of IPSAS and detailed study of IPSAS

ACC 426: Multi-Disciplinary Case study (3 Credit units)

This will cover tools to analyse a basic set of financial statements consisting of statement of Comprehensive income, statement of financial position, cash flow statement and supporting notes; tools that can be used with management information such as budgets and forecast; strategic tools such as PESTEL, five force analysis or SWOT analysis; financial engineering assessment tools and business valuation tools.

ACC 428: Accounting Ethics (3 Credit units)

Accounting and reporting policies, disclosure of accounting policy, methods of recognizing assets and liabilities. Analysis and interpretation of financial statements, types of ratio analysis- trend, inter-firm analysis etc; usefulness and limitation of ratio analysis. Accounting standards, compliance requirements of standards issued by NASB, IASB AND IFAC. International Financial reporting standards (IFRS). The concept and types of ethics, principles and application of professional ethics, decision in ethics, ethnical threats and safeguards, social and environment issues in ethics, explain and illustrate using information in a given scenario the meaning of business ethics. Identify and explain in the context of a given scenario how business ethics and moral duties may be linked, identify and explain in the context of a given scenario how business ethics and business success may be linked, identify and assess in a given scenario issues of ethics and corporate social responsibility, identify and assess in a given scenario issue of professional ethics and corporate governance in accordance with ICAN code of Professional Conduct and IFAC Code of ethics for Professional Accountants. Identify ICAN professional Code of Conduct and Guide for members. Corporate Governance – Nature, Scope and significance, Corporate Social Responsibilities- Concept and Scope. Case study.
BUS 421: Strategic Management and Business Policy II (3 credit units)

ACC 429: Research Project (6 credit units)

Original study or investigation of a local problem of an accounting or management nature to demonstrate and improve the skills acquired in BUS 324. Project work is supervised by board members. Bound copies of the research report are to be provided by the students.
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<th>AREA OF TEACHING AND RESEARCH SPECIALIZATION</th>
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<tr>
<td>4</td>
<td>Dr. Raph Adeghe</td>
<td>Senior Lecturer</td>
<td>B.sc Eco/Stat UNIBEN M.Sc Banking &amp; Finance M.Sc Economics UNIBEN Ph.D, FCNA</td>
<td>Auditing and Investigation Public sector accounting &amp; Public Finance</td>
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<tr>
<td>6</td>
<td>Atu, Oghogho Gina</td>
<td>Lecturer II</td>
<td>B.Sc First Class Honours (Accounting) 2010, NIM 2011, M.Sc (Accounting)2013,</td>
<td>Financial Management, Computer Application in Accounting</td>
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<td>7</td>
<td>Miss. Okemuo Chinyere</td>
<td>Administrative Staff</td>
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### ACADEMIC/TEACHING STAFF LIST

#### VISITING PROFESSORS/ASSOCIATE LECTURERS

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### EXTERNAL EXAMINER

**Full Name:** Ofuan James Ilaboya  
**Qualifications:**  
- B.Sc. Accounting, 1995  
- M.Sc. Accounting, 2000  
- MBA, 2002  
- Ph.D. Financial Management, 2012  
- FCA, 2011  
- ACTI, 2006  
**Present Institution:** University of Benin
DEPARTMENT OF BANKING AND FINANCE
B.Sc. (Banking and Finance Programme)

HEAD OF DEPARTMENT'S REMARK

INTRODUCTION

Igbinedion university Okada was the first private university in Nigeria with registration certificate No. 001 presented to the founder/proprietor and the honourable chancellor, Sir (Dr) Chief Gabriel O. Igbinedion, the Esama of Benin kingdom, by the Federal Government of Nigeria on 10\textsuperscript{th} of May 1999.

The University, however, began its academic operations on 5111 October 1999 with 112 students.
Within the span of thirteen academic sessions from 1999/2000 to 2012/2013 the University has attracted students not only in Nigeria but also from other countries. In particular, the University has attracted students from all 36 states of the federation and Federal Capital Territory (FCT) Abuja as well as from foreign countries. The staff mix of the university also reflects this national spread or federal character and, right from its inception to-date, the University always has a good number of foreign nationals among its teaching and non-teaching staff thus, Igbinedion University Okada can be rightly described as one having a strong federal character, one with strong attraction for students within and outside Nigeria, a university of choice with a difference, and a private university with a clear vision, strong sense of mission and objectives poised to take its place gradually in the comity of similar Ivy League Universities in the UK and the USA.

Mission Of The University

To pursue excellence in teaching, research and scholarship through the provision of unequaled range of facilities and opportunities for education, training and employment for all those able to benefit without any kind of discrimination.

To advance human advancement, prosperity, and public welfare through teaching and research that encourage application of knowledge, promote discipline, emphasize self-employment, and to acquire and manage resources effectively to achieve these aims.

THE DEPARTMENT INTENDS TO ACHIEVE THIS MISSION THROUGH

- Offering state-of the art training that prepares its graduates for responsibilities of the world of work and will produce graduate that are the most sought-after by all employers of labour as well as postgraduate schools and research institutes;
- Establishing institutional linkages for mutually beneficial relationships; and
- Striving to become a centre of excellence where expertise and facilities to accelerate the pace of the nation’s development can be provided.

In this way, the department will contribute to the realization of Igbinedion University’s mission of “advancing human development ... through teaching and research that encourage the acquisition and application of knowledge”

ADMISSION REQUIREMENTS

Candidates are admitted into the undergraduate degree programmes of the department in any of the following three ways:

- Through University Matriculation Examination (UME)
- By Direct Entry
- Through Inter-University Transfer.

Each department within the University has its own specific requirements with respect to admission, but these in general conform to the minimum University Matriculation requirements. The requirements for each Department are specified in the appropriate sections of Departmental programmes.

UNIVERSITY MATRICULATION EXAMINATION (UME)
ENTRY MODE

In general, candidates seeking admission through University Matriculation Examination (UME) into 100 level of the four year programme leading to the award of Bachelor of Science (Bsc.) degree of Banking and finance should possess a minimum of five credit passes at GCE/SSCE/NECO examinations which must include English language, Mathematics, Economics or Commerce. Equivalent of five credits obtained in examination conducted by the National Board for Technical
Education (NABTEB) are also accepted. In addition to these requirements, the university requires that students make an acceptable pass, on the university matriculation Examination (UME) conducted by the Joint Admission and Matriculation Examination (JAMB) which represent a global screening examination. In addition, the university normally further screens candidates for admission into its degree programmes.

DIRECT ENTRY MODE
Candidate seeking Direct Entry admission to the 200-level of a degree program should posses at least two subject at the Advance level in the GCE student with two subject at the NCE, or with Diploma degree of recognized institution are accepted provided that they have satisfied all University Matriculation requirements. Furthermore, the University reserves the right of further screen students for admission.

INTER-UNIVERSITY TRANSFER
Candidates wishing to transfer into the department from another university must obtain and till the inter-university transfer from the university’s admission office. All such application for inter-university transfer will be treated on their own merits. All inter-university transfer candidates will normally be admitted into not higher than 200 level of the receiving program me.

No candidate will be admitted into the department unless the department is satisfied that the candidate has met the minimum academic requirement for admission to the programme the candidate has chosen

COURSES CREDIT AND GRADING SYSTEM
The University operates a course credit system in which subject areas are broken down into examinable units called courses. all courses offered in the department are assigned credits and students earn credits for courses passed.

CREDIT UNIT
A credit unit refers to a specified number of hours of students teacher contact for lectures / tutorials of one hour per week semester of fifteen weeks hence one credit unit is one hour of lectures or tutorial per week semester of fifteen weeks or an equivalent amount of study, such as seminars, laboratory, industrial attachment, or fieldwork, or any combination of these. For example, one week of industrial attachment may be equivalent of one hour of lecture per week per semester.

PROBATION
If at the end of the session a student grade point average (GPA) is less than 1.50, then he/she will be placed on probation for a special period of one full session. If at the end of this probation period a student’s SPA is still less than 1.50, then the student will be asked to withdraw from the programme of study. A student who is so withdrawn need not leave the university; he may transfer to another programme within the university.

GRADE POINT AVERAGE (GPA)
Grade point average (GPA) is a measure of the average performance of a student for a semester or session expressed in grade points in all the courses taken by the student during the semester or session expressed in grade points earned in all the courses taken by the student during the semester or session. The grade point average (SPA) is derived from the actual raw scores in given courses obtained by a student. It is computed by multiplying the grade point (G.P) attained in each courses by the credit units assigned to that course and then dividing the sum by the total credits taken for the semester or session.

CUMULATIVE GRADE POINT AVERAGE (CGPA)
This is an up-to date average or mean of the grade points( G.P) earned by a student at any point in his/her programme of study. The cumulative grade point average (CGPA) depicts the students overall performance in his/her programme of study at the given time, it is derived by multiplying the grade
points earned by the students in each courses taken by their respective credits units and summing these products for all the courses taken to date and then dividing this aggregate sum by the sum of the total credits of all the courses registered by the student.

WORKLOAD
This refers to the specified minimum and maximum number of credits a student is expected to take during the semester and session. A Student shall normally, in any academic year, be allowed to register for a minimum of 40 credits and a maximum of 50 credits. This means that no student earn more than 50 credits at the end of each academic year. Student should take between 20 and 25 credits in each semester in any academic year.

COURSE CODING
All course offered in the department are coded by assigning them a three lettered prefix followed by three digits numbers. The three-letter prefixes and the three digits numbers are assigned to represent the department, level, semester and major (in the case of the B.sc in Banking and finance programme).
The department courses are courses offered and taught by the department.

REGISTRATION
At the beginning of every session, all students are to register for their entire course for that session, using registration forms provided by the Examination and records unit of the registry. Recently, on-line registration was introduced, and has become the required practice. A student is not registered for an academic session unless and until the on-line registration procedures have been completed. Two weeks shall normally be allowed for registration every session. Late registration fee is charged as determined from time to time by the University. A student who is registering late must attach his payment receipt to his registration form.

Any student who fails to register within two months of the beginning of the session shall not be allowed to register for that session, and shall forfeit the benefit of taking any examination in any semester of that session. Such a student shall be deemed to have voluntary withdrawal from the University, and shall be readmitted in the subsequent session only with the approval of the senate. For the Student admitted to 100 level or through Direct Entry, his/her admission shall be considered to have lapsed.

Students who attend lectures in course that they have not registered for shall do so only with the express permission of the lecturer(s) in charge of the courses. However, such students shall not earn any credit from such courses.

COURSE ADVISERS
The head of department appoint a course adviser from among the academic staff of the department for each level of students. The course adviser shall advise the students on university regulations as they relate to their studentship as well as ensure that the students select course in accordance with the regulations governing the award of the degree for which he has enrolled. He/she has the primary responsibility of ensuring that the students duly register for the course and credits required of their level and status, all register forms, course forms, and entry into Examination forms must, therefore, be approved and signed by the student’s course adviser before they undergo other processing. Course adviser are expected to exercise these responsibilities with diligence and devotion to duty.

COURSE LISTING
Courses for each degree programme are categorized as follows:
a) **CORE** course are those which a student enrolled in the relevant degree programme must take but also pass it to qualify for award of the degree. For each degree programme, its core course is so indicated in the programme curriculum.

b) **COMPULSORY** courses are those taken by a student according to his area of specialization in the B.Sc in Banking and Finance programme. The compulsory elective course must be taken as a bloc to meet the degree requirements of majoring in the students chosen area of specialization.

c) **COMPULSORY ELECTIVE** course are those taken by a student according to his area of specialization in the B.Sc in Banking and Finance programme. The compulsory elective course must be taken as a bloc to meet the degree requirements of majoring in the students chosen area of specialization.

d) **ELECTIVE** course are those taken by a student according to his interest (but, however, subject to departmental approval) and are additional to the CORE, COMPULSORY and COMPULSORY ELECTIVE courses he must take. Elective course are usually taken from other departments within and outside the department. The course advisers will advise the students on the elective courses to take, when necessary, and from which departments PRE-REQUISITION COURSES

Courses may have pre-requisites. Pre-requisites courses are those courses a student must take and pass before being allowed to register for following (relevant) higher-level courses. However, a student who fails to pass a pre-requisite course may be allowed to register concurrently for a following higher-level course, provided such is approved by his/her department.

**CHANGE OF COURSE**
Students may add or drop courses for which they have registered within one month of the beginning of lectures. However, such changes shall be allowed only subject to meeting the requirements of the receiving department.

**DURATION OF DEGREE PROGRAMME**
Generally, the degree programmes in the college will be a minimum of 3 years duration for Direct Entry students and 4 years duration for the UME students. The maximum number of years allowable for a course of study to earn a Bachelors degree is 6 years.

**GRADUATION REQUIREMENTS**
For a student to qualify for graduation from any of the B.Sc. degree programmes in the college, he/she must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements (where necessary), and passing all the General Studies courses of the University. The minimum number of earned credit required for graduation is 120 units, at least 30 credits accumulated in each session for a four-year degree programme as follows:

- 30 credit units from 100 level courses
- 30 credit units from 200 level courses
- 30 credit units from 300 level courses
- 30 credits units from 400 level courses

For a three-year programme, a minimum of 90 credit units are required for graduation, at least 30 credit accumulated in each session as follows:

- 30 credit units from 200 level courses
- 30 credit units from 300 level courses
- 30 credit units froth 400 level courses

**SEMESTER EXAMINATIONS**
Students shall take examination in all courses they registered for at the end of each semester. The semester examination shall contribute 70 percent of the total marks for each course at the end of the
Credits will be assigned to courses passed. Marks scored for any courses not originally registered for will be disregarded. The Grade Point Average (GPA) will be calculated on the basis of the total number of courses registered for during the semester, whether passed or failed.

**CONTINUOUS ASSESSMENT**
There shall be continuous assessment in all courses offered in the department. The continuous assessment consists of written assignments, term papers, periodic tests/quizzes, a mid-semester examination, and attendance at lectures and tutorial. The continuous assessment shall contribute a maximum of 30 percent of the total marks for each course at the end of the semester.

**MODERATION AND EXAMINERS**
All the examination question papers from 100 to 400 levels shall be moderated by external examiners appointed for the different levels, at the beginning of each semester the external examiners shall vet the course outlines for each course offered at the level(s) for which he/she is responsible. The external examiner responsible for the 400 level shall also participate in the determination of overall results and in the classification of degrees.

**INTERNAL EXAMINERS**
Each course offered in the department shall have at least two internal examiners. There is a Departmental Board of Studies and a Department Board of Examiners. The Head of Department is the Chairman of two boards, the departmental board of examiners shall deliberate and make recommendations to the college Board of studies on all matters relating to examinations.

**DEPARTMENTAL EXAMINATION OFFICERS**
The head of department is the chief examiner of the department and is responsible for the proper conduct of examinations in the department. However, he is required to appoint an Examinations Officer from among the academic staff of the rank of lecture II and above. The Examinations officer is responsible to the Head of Department in all matters relating to examinations, he will be in charge of recording, compilation, and presentation of examination results to the Departmental Board of Examiners.

**REGULATIONS GOVERNING THE AWARD OF THE DEGREES IN THE DEPARTMENT**
1. Instructions in the department of Banking and Finance shall be by courses and students shall be required to take an approved combination of courses as may be determined from time by the University Senate on the recommendations of the Departmental and college Boards of Studies.
2. The approved period of study for the award of the degree shall not be less than 6 semesters or three years for Direct Entry students, and eight semesters or four years for UME students.
3. All undergraduate courses offered in the department shall be full time.
4. A student shall normally be required to withdraw from the Department if he/she fails to achieve a grade Point Average (GPA) of 1.50 after two consecutive years. However such a student may transfer to another programme in any Department within and outside the College that may be willing to accept him or her.

**GUIDELINES FOR EXAMINATIONS AND GRADING**
The following procedures and guidelines are operative:

**Examinations**
(a) All lecturers are required to set a minimum of twelve questions in their courses, while the external examiner is expected to choose six questions from the 12, and the students are required to answer four questions out of the six.
(b) No examination hall be administered at any level unless moderated by the external examiners approved by the Senate.
(c) The time allowed for written examination shall normally be on the basis of not more than 1 hour for each credit unit of the course and not less than two and half hours in total. The time allowed for any theory only paper shall not exceed 3 hours.
(d) Not more than one (1) course shall be examined in one paper.
(e) Other forms of examinations may include practical examinations, inspection and assessment of practical work, note books, project work, special reports, and so on. However, the form of the examination must be specified by the Department and approved by Senate on the recommendation of the Departmental Board of Studies.
(f) Every course shall be examined during the semester in which it is offered and candidates will be credited with those courses in which they have passed.

**Grading**

(a) All courses shall be graded out of a maximum of 100 marks and all marks shall be entered in numerical scores.
(b) Continuous assessment shall be regarded as part of course examinations, but marks scored through continuous assessment shall not constitute more than 30 percent of the full marks for the course.
(c) A candidate who obtains less than 45 marks for a course (continuous assessment scores inclusive) shall be deemed to have failed the course.

**EXAMINATION INSTRUCTIONS TO ALL STUDENTS**

(a) Only students duly registered for courses and get their results.
(b) Every student must write examinations at the venues designated for them. Non-compliance with this instruction could lead to loss of such student’s script.
(c) No student will be allowed into the examination venue after 30 minutes of the commencement of any paper.
(d) For easy identification in the examination halls, each candidate must have with him/her the University identity card, school fee receipts and Entry into Examination Forms duly signed by the designated officers of University.
(e) No student should leave the examination hall within one hour of the commencement of the examination.
(f) All students must read the instructions on the front cover of the examination booklet and abide by them. All information required on the answer booklet must be carefully completed.
(g) All answer scripts must be handed in at the end of the examination.
(h) All students must complete the Attendance Sheet relating to the examination.
(i) Students must adhere strictly to examination instructions. Improper conduct during examinations is punishable as specified in the University’s Students Code of Conduct.
(j) A student may not absent himself from any required examination or continuous assessment tests unless by permission of the lecturer in-charge and the Head of Department.

**OTHER REGULATIONS TO BE OBSERVED BY ALL STUDENTS**

These regulations should be adhered to by all students for the smooth administration of the Department and to ensure an environment that is conducive for all:

(a) A Student is entitled to the membership of the Department only when he is fully registered in his department.
(b) Every student is required to attend lectures for the two semesters in the session, and to sit for all the examinations for which he /she has registered. If, however, any student is prevented from doing these by illness or other unforeseen circumstances, such a student must report the
reasons to his/her Head of Department who will forward the same to the Dean of College and the Registry.  
(c) All students are required to conduct themselves in a quiet and orderly manner within the classrooms and the University premises.  
(d) A student shall not change the course of study for which he has registered without - the consent of the Head of Department and the Dean of the College.  
(e) A student who willfully damages any Department property shall be required to pay for its repair or replacement.  
(f) Any student who does not perform satisfactorily in his academic work may, on the recommendation of the Department and College to the Senate, be withdrawn from the University.  
(g) Belonging to any secret cult or organization is punishable by expulsion and prosecution.  
(h) All students admitted to first degrees are required to present themselves for medical examination by the University Medical Officer in their first year (or second year, for Direct Entry students).  
(i) Students should notify the Department of any change in their home or lodging addresses

RESULTS
Results are published by the department after approval by the senate. The published results show the student’s matriculation number, the courses the student took and their credit units, and then the students examination performance in terms of the raw scores and their letter grade equivalents. The information given in the table below is helpful in interpreting a student’s performance.

<table>
<thead>
<tr>
<th>Raw Scores (%)</th>
<th>Letter Grade</th>
<th>Grade Points</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
<td>Excellent</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
<td>Very Good</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
<td>Good</td>
</tr>
<tr>
<td>45 – 49</td>
<td>D</td>
<td>2</td>
<td>Pass</td>
</tr>
<tr>
<td>0 – 44</td>
<td>F</td>
<td>0</td>
<td>Fail</td>
</tr>
</tbody>
</table>

CLASSIFICATION OF DEGREES
Final CGPA Class of Degree
4.50 5.00 First Class Honours
3.50 4.49 Second Class Honours, Upper Division
2.40 3.49 Second Class Honours, Lower Division
1.50 2.39 Third Class Honours

TITLE OF DEGREE
The department awards Bachelor of Science degrees, and the major discipline in which the degree has been taken is also indicated. B.Sc. (Banking and Finance)

HISTORY OF THE PROGRAMME/SUB DISCIPLINE/DISCIPLINE
The Department of Banking and Finance was established in the 1999/2000 academic session along with the other two departments in the Sanusi Lamido Sanusi College of Business and Management Studies. However, the Department was initially warehoused by the Department of Accounting. Professor E.O. Izedonmi, the then Dean of the College, had the responsibility of overseeing the affairs of the Department and nurturing it until it came on its own in the 2002/2003 academic session, with Mr. Benson A. Akintola as the pioneer Lecturer-in-charge of the Department.
In the 2003/2004 academic session, the Department graduated its pioneer students who were four (4) in number Twelve (12) students were graduated in the 2004/2005 session, Four (4) students in the 2005/2006 session, twenty (20) students in the 2006/2007 session, seventeen (17) in the 2007/2008

The student population currently stands at 18. The breakdown is as follows:

- 100L - 02
- 200L - 10
- 300L - 01
- 400L - 05
  
18

The staff strength of the Department now comprises 4 academic staff and 2 non-academic staff and every staff individually occupies an office. The Department shares Library with other departments in the college.

GENERAL ADMINISTRATION OF PROGRAMME/SUB-DISCIPLINE.

Personnel Administration
(a) The Department has six (6) members of staff, four (4) are academic staff while two (2) are non-teaching staff
(b) Decision making is usually collective; taken at the Departmental Board Meeting:
(c) Members of academic staff are given the opportunity to study for higher degrees on part-time basis: currently all academic staff have Ph.D
(d) Members of staff are promoted after three years of service if they are found productive (in terms of teaching and publication).

Student's Welfare
(a) Academic grievances are handled by the Head of Department and the appropriate level adviser.
(b) Each level adviser provides counsel and advice on courses offered.
(c) Examination Questions (twelve) are set by the course lecturers and the External Examiner vets and selects six questions while the students attempt four questions. Examinations at all levels (100L - 400L) are moderated by the two external examiners of the department

Examination
(a) Examinations are conducted in large halls with students sitting with a space in-between.
(b) Questions are marked in line with prepared marking schemes.

Academic Atmosphere
(a) The Department encourages students to dress in a corporate manner while attending lectures
(b) Students are encouraged to use the library facility during free period.

PROGRAMME PHILOSOPHY AND OBJECTIVES

PHILOSOPHY
The curriculum of the Department is designed to develop the knowledge of the students theoretically and practically for individual self-confidence and creativity. It also aims at producing high caliber Banking Finance graduates capable of holding responsible positions in any organization.

VISION
To be a Department of international standard where Banking Finance knowledge is created, developed and sustained with excellence for the good of mankind.
MISSION
1) To develop and pursue excellent teaching and research through the provision of world-class facilities and opportunities for education, training and employment to all those who are able to benefit, without discrimination
2) To enhance human advancement, prosperity and welfare through effective and efficient teaching and research that encourage the application of knowledge, promote discipline, honesty and hard work, and to acquire and manage resources effectively to achieve set objectives.

OBJECTIVES

The main objective of the programme is to provide courses of instruction leading to the award of Bachelor of Science (B.Sc.) degree in Banking & Finance. Specifically the programme is:

a. To provide basic knowledge for understanding and analyzing problems relating to the management or administration of industrial, commercial, public and other human organizations and particularly financial institutions;

b. To equip the students with skills needed for recognizing and defining problems and taking appropriate decisions using scientific techniques and tools; and

c. To inculcate in students an awareness of and sensitivity to environmental factors and conditions and their impact on managerial administrative practice and decisions.

Essentially, the focus of the programme is on finance with emphasis on banking. Graduates of the programme will have the twin advantage of:

ii. Identifying one major area of interest in Finance for possible specialization at post-graduate level; and

iii. Achieving sufficient professional competence in banking practice and course work and, therefore, be able to qualify in the Chartered Institute of Bankers of Nigeria (CIBN) examinations within the shortest possible time.

ADMISSION REQUIREMENTS

In addition to the general University requirements, the following regulations shall apply to the admission of students into the department:

DIRECT ENTRY REQUIREMENT

(a) Two ‘A’ level passes in Economics or Accounting and an additional subsidiary subject. Candidates are expected to possess five credits at SSCE/GCE ‘O’ Level or their equivalent in subjects which include English Language. Mathematics and Economics Results at ‘O’ level and ‘A’ level must be attained at not more than two sittings or

(b) A National Diploma! Certificate from approved universities or colleges of technology or Polytechnics with a grade not lower than merit. In addition, the applicant must possess five credits at SSCE/GCE ‘O’ level or its equivalent in subjects which includes English language, Mathematics, and Economics

(c) Any credential approved by the senate of the University.

A) UME

Five ‘O’ level credits including English language, Mathematics, Economics and any two other relevant subjects from any Government approved examining body e.g. WAEC, NECO and NABTEB

PROGRAMME/DISCIPLINE

Structure to include period of formal studies in the University; industrial training, planned visits and projects.
The B. Sc. Banking & Finance programme is structured as follows:
i) A four-year programme for UME entrants
ii) A three-year program for Direct entrants
At the end of the third year programme, students are permitted to undergo a three months Industrial Training in various industries. The purpose is to enable them acquire practical orientation/exposure in areas that bear direct relevance to the principles and applications of finance.

REGULATIONS GOVERNING COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN BANKING & FINANCE
1. A four-year programme of course shall be provided leading to the degree of Bachelor of Science to be denoted by the letter B.Sc. which may be awarded with Honours or as a Pass Degree in Banking & Finance.
2. Instruction in the department shall be by courses and students will be required to take a combination of courses in the University approved by Senate, or the recommendation to the Departmental Board, as may be determined from time to time.
3. Courses shall be evaluated in terms of course units. One course unit shall be defined as one lecture contact hour per week, while three course units shall be defined as 3 lecture contact hours per week.
4. There shall be four levels of courses; numbered 111, 211, 311 and 411. Course numbers shall be prefixed by a three-character programme/subject code. Determination of the class of degree shall be based on performance at all levels. The courses are currently numbered 111 499 under the four-year Degree programme systems.
5. To earn a degree, all core courses must be taken and passed.
6. Every course shall be examined during the semester in which it is offered and candidates will be credited with those courses in which they have passed.
7. Continuous assessment shall be regarded as part of course examinations, but marks scored through continuous assessment shall not constitute more than 30% of the full marks for the course.
8. The approved period of study for the award of the degree shall not be less than 6 semesters for direct entry students and 8 semesters for UME students.
9. (i) The cumulative Grade Point Average System (CGPA) shall be used for the determination of Class of Degree.
   (ii) A CGPA of candidate’s CGPA will be determined by the sum of the weighted grade point divided by the total units of all courses registered for, passed or failed.
   (iii) Only the weighted average system shall be used in determining the grade point average.
   (iv) No student whose grade point average is below 1.0 shall be awarded a degree.
10. A student shall normally be required to withdraw from the department if he fails to achieve 1.0 CGPA after two consecutive years.
11. The list of successful candidates for the degree shall be published with the following classifications: First Class Honours, Second Class Honours (Upper and Lower Divisions) and Third Class Honours.
12. All Undergraduate courses shall be full time.

GUIDELINES FOR EXAMINATION AND GRADING
In order to obtain the Cumulative Grade Point Average of a candidate the appropriate index. (Grade Points) assigned to each range of numerical marks is multiplied by the course unit and the product is added up. The total is divided by total units of courses registered.
2. The final marks for any course shall be a whole number. The grade of the marks shall be awarded on the basis of the final aggregate marks as follows:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Point</th>
<th>Mark %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>70 and above</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>60 – 69</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>50 – 59</td>
</tr>
</tbody>
</table>
**Cumulative Grade Point Average and Class of Degree**

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 and above</td>
<td>First Class</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>Second Class Honours (Upper Division)</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second Class Honours (Lower Division)</td>
</tr>
<tr>
<td>1.5 – 2.39</td>
<td>Third Class Honours</td>
</tr>
</tbody>
</table>

The degree shall be awarded with honours provided a student obtains a Cumulative Grade Point Average that is not less than 1.5 and satisfied the minimum honours requirements.

**Examination**

The following procedures and guidelines are operative:

a. All lecturers are allowed to set a minimum of twelve questions in their courses while external examiners (at least two) are to choose six questions in each of the courses, students are then allowed to choose four questions.

b. No examination at all levels shall be administered unless moderated by external examiners approved by the Senate.

c. The time allowed for written examination shall normally be on the basis of not less than 2¼ hours and not more than 1 hour for each unit course. The time allowed for any one- theory paper shall not exceed 3 hours.

d. Not more than 1 course shall be examined in one paper.

e. Other forms of examinations may include practical inspection and assessment of practical work, not books, project work, special reports, and the forms of the examination must be specified by the department and approved by Senate on the recommendation of the Departmental Board.

**Grading**

i. All courses shall be graded out of maximum of 100 marks and all marks shall be rendered in numerical scores.

ii. A candidate who obtains less than 45 marks shall be deemed to have failed the course.

**Graduating Requirements**

The degree of Bachelor of Science in Finance is a four year programme. A student may, however, acquire the degree in less than four years provided the requirements for the degree have been met.

To be eligible for the degree, students must have:

1. Passed all core courses and any elective recommended for specialization.
2. Accumulated at least 176 course units and obtained a CGPA of not less than 1.5.
3. Successfully completed the mandatory industrial training and Research project.

**LIST OF STAFF 2012 /2013**

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES</th>
<th>RANK</th>
<th>QUALIFICATION</th>
<th>Area of Teaching and Research Specialization</th>
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<tbody>
<tr>
<td>S/N</td>
<td>COURSE CODE</td>
<td>COURSE TITLE</td>
<td>CREDIT UNITS</td>
<td>REMARKS</td>
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<td>6</td>
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</tbody>
</table>

**COLLEGE OF BUSINESS AND MANAGEMENT STUDIES**

**B.5c. BANKING AND FINANCE DEGREE PROGRAMME**

**COURSE SCHEDULE**

**100 LEVEL**
First Semester Course Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>S/N</td>
<td>COURSE CODE</td>
<td>COURSE TITLE</td>
<td>CREDIT UNITS</td>
<td>REMARKS</td>
</tr>
<tr>
<td>-----</td>
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<td>------------------------------------</td>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>1</td>
<td>BFN 111</td>
<td>Introduction to Finance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ACC 111</td>
<td>Introduction to Financing Accounting I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MTH 111</td>
<td>Elementary Mathematics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BUS 111</td>
<td>Introduction to Business I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>ECO 111</td>
<td>Principles of Economics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>CSC 113</td>
<td>Introduction to Computers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>GST 111</td>
<td>Use of English &amp; Library</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>GST 112</td>
<td>Nigerian History and Culture</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>25</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Second Semester Course Offerings**

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>1</td>
<td>BFN 121</td>
<td>Introduction to Money and Banking</td>
<td>3</td>
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<tr>
<td>2</td>
<td>ACC 121</td>
<td>Introduction to Financial Accounting II</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BUS 121</td>
<td>Introduction to Business II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>MTH 122</td>
<td>Elementary Mathematics II</td>
<td>3</td>
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</tr>
<tr>
<td>5</td>
<td>ECO 121</td>
<td>Principles of Economics II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>CSC 123</td>
<td>Application of Computers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>GST 121</td>
<td>Entrepreneurial Studies I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>GST 122</td>
<td>Philosophy, Ethics and Law</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>GST 123</td>
<td>History and Philosophy of Science</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>25</strong></td>
<td></td>
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<tr>
<td></td>
<td><strong>GRAND TOTAL</strong></td>
<td></td>
<td><strong>50</strong></td>
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</table>

**200 LEVEL**

**First Semester Course Offerings**

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BFN 212</td>
<td>Business Statistics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BFN 213</td>
<td>Mathematics of Finance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BFN 214</td>
<td>Principles of Insurance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ACC 211</td>
<td>Financial Accounting I</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>ACC 213</td>
<td>Cost Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>BUS 211</td>
<td>Principles of Management I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>BUS 213</td>
<td>Principles of Marketing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>ECO 211</td>
<td>Micro-Economics</td>
<td>3</td>
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<tr>
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<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>25</strong></td>
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</tbody>
</table>

**Second Semester Course Offerings**

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>1</td>
<td>BFN 223</td>
<td>Business Statistics II</td>
<td>3</td>
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<td>2</td>
<td>BFN 224</td>
<td>Business Communications</td>
<td>3</td>
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<td>3</td>
<td>BFN 221</td>
<td>Practice of Banking I</td>
<td>3</td>
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<td>4</td>
<td>BFN 222</td>
<td>Business &amp; Corporate Finance</td>
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<td>5</td>
<td>BUS 225</td>
<td>Elements of Banking</td>
<td>3</td>
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<tr>
<td>6</td>
<td>ACC 221</td>
<td>Financial Accounting II</td>
<td>4</td>
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</tbody>
</table>
### 200 LEVEL DIRECT ENTRY (THREE – YEAR PROGRAMME)

#### First Semester Course Offerings

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>BFN 212</td>
<td>Business Statistics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>BFN 213</td>
<td>Mathematics of Finance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BFN 214</td>
<td>Principles of Insurance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ACC 211</td>
<td>Financial Accounting I</td>
<td>4</td>
<td></td>
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<tr>
<td>5</td>
<td>ACC 213</td>
<td>Cost Accounting</td>
<td>3</td>
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<tr>
<td>6</td>
<td>BUS 211</td>
<td>Principles of Management I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>BUS 213</td>
<td>Principles of Marketing</td>
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**TOTAL 34**

#### Second Semester Course Offerings

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**TOTAL 25**

**GRAND TOTAL 59**

### 300 LEVEL

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## Second Semester Course Offerings

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## 400 LEVEL

### First Semester Course Offerings

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## Second Semester Course Offerings

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COURSE DESCRIPTION
100-LEVEL
FIRST SEMESTER
BFN 111: INTRODUCTION TO FINANCE (3 Credit Units)
An introduction to the study of finance defines the nature and risks of finance; the firm and its
financial objectives as well as financial decisions: the finance functions, financial management as a
tool for planning and control: financial intermediaries: financial markets and instruments therein; the
stock exchange: finance business: sources and choices of fund acquisition; and capital budgeting.

BUS 111: INTRODUCTION TO BUSINESS (3 Credit Units)
The objective of this course is to introduce the beginning students of Accounting. Banking and
Finance, and Business Administration, Economics and other related social science disciplines to the
basic elements of the study of business administration. Topics covered by the course include: survey of
business, the modern business world, the composition, nature and functions of business enterprise as
well as its role as a social and economic unit.

ACC 111: INTRODUCTION TO FINANCIAL ACCOUNTING I (4 Credit Units)
This course covers the nature and scope of Accounting the role of accountants, the accounting
functions and relationships with the information system of the organization, definition of accounting,
historical background of accounting. It also covers other important areas such as source documents
and their uses, subsidiary books: meaning, types and preparation: ales day book; purchases day:
returns inwards day book returns outward day book and journal proper. The accounting equation,
double entry principle books of accounts, including cash book, ledgers. petty cash book and imprest
system, posting of entries in the subsidiary books to the ledger, the trial balance, meaning and purpose
of the trial balance, errors affecting the trial balance, errors not affecting the trial balance: correction of
errors and the uses of suspense accounts. Final accounts of sole traders including adjustment for
provision for depreciation, provision for bad debts, accruals and prepayments. Classification of
expenditure between capital and revenue, bank reconciliation statement and adjustment of the
cashbook will be covered by the course.

MTH 111: ELEMENTARY MATHEMATICS 1(3 Credit Units)
This course is designed to expose students to the rudiments of mathematics and symbolic logic,
inductive and deductive systems. simple and compound statements, truth tables, set theory, real and
complex number system. binomial theory and equations. matrix algebra and matrices, numeric
analysis, differences formula (equal and unequal intervals). Other areas covered by the course include:
interpolation and summation techniques. coordinate geometry. Cartesian and polar coordinates, area of
triangles and quadrilaterals, the circles, parabola, eclipse and hyperbola, arithmetic and geometric
progression.

ECO 111; PRINCIPLES OF ECONOMICS I(3 Credit Units)
This course is an introduction to microeconomic theory. Topics covered include basic concept of
scarcity, choice, opportunity costs, scale of preference, the methodology of economics, market
mechanism (including demand, supply and price determination, theories of consumers’ behavior,
theory of production. theory of the firm, cost of production. pricing and output under perfect
competition. monopoly monopolistic competition. oligopoly. etc.

BUS 111: INTRODUCTION TO BUSINESS 1(3 credit units)
The objective of this course is to introduce the beginning students of” Business, Accounting, Banking
and Finance. Economics, and related social science disciplines to the basic elements of the study of
business administration Topics covered include: survey of business, the modern business world, the
composition, nature and functions of the business enterprise as well as its role as a social and economic unit.

CSC 113: INTRODUCTION TO COMPUTERS (3 credit units)
General introduction to Computer Science, Computer hardware (History of computer, generation of computers, evolution and types of computers, classification of computers, architecture, data representation in money, typical computer configuration, computer software (History and Generation, software types programming languages and features, introduction to windows & DOS operating system), programming steps. Organization chart of computer centre, categories of computer application, use of computers, advantages and disadvantages of computers, introduction to word processing Data communication (Basic- concept and methods. of Computer networks, Internet and E-mail concept). Data processing (properties, Type of processing. Batch processing), Number representation (Binary mathematics. Number conversion), computer Viruses and protections.

GST 111: USE OF ENGLISH & LIBRARY (4 credit units)
The course will consolidate the fundamentals of English Language including the following: nouns and pronouns (types and features), verbs and tenses (varieties), adjectives and adverbs (varieties, features, and functions), conjunctions, prepositions, interjections, clauses (types), and sentences (types). Language skills of listening, caking, reading, and writing. Choosing topics for writing (planning, assembling and organizing points, outline preparation. factors of unity, coherence, context, originality, mechanical accuracy, and paragraph development).Forms of writing, including narrative, descriptive, expository, argumentative. summary, correspondences, and speech writing. Brief history of libraries. Library and education. University libraries and other types of libraries. Using library resources in enhancing study skills. These include understanding cataloguing systems and classifications, locating books and journals, lending/borrowing, c-learning, c-materials, other reference materials, and indexing. Copyright and its implications, Database resources, bibliographic citations, and referencing.

GST 112: Nigerian History, Culture and Moral Studies (2 credit units)
A study of Nigerian history and culture from pre-colonial times, including the Nigerian’s perception of his world; culture areas of Nigeria and their characteristics: evolution of Nigeria as a political entity; concept of functional education; national economy: balance of trade; economic self-reliance; social justice: individual and national development; norms and values; environmental sanitation: principles of good and bad, right and wrong: moral implications of our choices, judgments and actions; morality versus expediency; the role of conscience: moral obligations of citizens.

SECOND SEMESTER
BFN 121: INTRODUCTION TO MONEY AND BANKING (3 Credit Units)
The course covers the nature, forms and functions of money; theories of commercial banking operations; principles and functions of different types of banking institutions: the banks and money supply: money and capital markets; monetary and fiscal policies: inflation and credit creation’ history of banking in Nigeria: development of the Central Bank of Nigeria (CBN): general principles of bank lending; bank services; methods of payment through the banking system (both domestic and overseas); the balance sheet structure; the protection of deposit funds; legal reserve requirements and liquidity ratios.

ACC 121: INTRODUCTION TO FINANCIAL ACCOUNTING 11 (4 Credit 6 Units)
This course exposes students to the basics of final accounts of sole traders; further adjustments and presentation in T-form; accounting concepts and conventions; depreciation of fixed assets: meaning of depreciation, reasons for making provisions for depreciation: methods of providing for depreciation
and related accounting theory including SAS9. It also covers various methods of calculating depreciation: straight line method, reducing balance method, sum-of-the-year’s digit method, production hour method, production unit method, revaluation method, sinking fund method. Finally, the course teaches the stock valuation methods and related accounting theories including SAS4, manufacturing accounts, incomplete records, and single entry.

BUS 121: INTRODUCTION TO BUSINESS 11(3 Credit Units)
The topics of this course include a general survey of the functional area of business, concepts in marketing, production management, personnel management, accounting and finance, banking and insurance, and other areas of business. Prerequisite BUS 111

MTH 122: ELEMENTARY MATHEMATICS 11(3 Credit Units)
The focus of this course is on algebraic and transcendental function, expansion of algebraic function with application in business studies, differential calculus, limits and continuity, derivation from first principles, total differentiation: application of marginal analysis, cost functions, indifference curves; maximization and minimization; partial differentiation with application to marginal analysis and comparative statistics. It also focuses on integral calculus, integration with application to marginal total equations, permutations and combinatorial: simple sequences and series finite and infinite series; convergent and divergent series.

ECO 121: PRINCIPLES OF ECONOMICS 11(3 Credit Units)
This course is basically an introductory course on the macroeconomic aspect of economic theory. Topics covered include the subject matter of economics and basic economic problems; the methodology of economics science and the general principles for resource allocation; national income accounting including elementary models of income and employment; money and banking; employment and unemployment; public finance including government budget; international trade; balance of payments, and economic growth and development.

GST 121: ENTREPRENEURSHIP STUDIES (2 Credit Units)
This is a general studies course and deals with the principles and practices of entrepreneurship leading to self-employment. It focuses on the concept of entrepreneurship; the basic characteristics required for successful performance as an entrepreneur; types of entrepreneurs and their role demands: the problem of succession; identifying and utilizing entrepreneurial resources: conducting a market survey and consumer research to identify business prospects; feasibility studies; setting up a business organization, keeping of basic business/accounting records; developing a business plan; identifying sources of financing; the problem of financing and managing growth in entrepreneurial firms.

GST 122: PHILOSOPHY, ETHICS AND LAW (2 Credit Units)
This course involves the study of the main branches of philosophy. Logic will deal with the following: symbol logic, special symbols in symbolic logic-conjunction; negation, affirmation, disjunction. equivalence and conditional statements: method of deduction, rules of inference and bio-conditionals qualification theory. Legal studies will include nature of law, characteristics of the Nigerian legal system, classification of Nigerian law, functions of law in the society, human rights.

GST 123: HISTORY AND PHILOSOPHY OF SCIENCE (2 Credit Units)
An investigation of the origin of life, the evolutionary concept vis-à-vis that of creation; man and his cosmic environment; definition of: science and branches of science; developments in science from ancient times to the present; inventors and inventions; science and man; energy forms, sources and implications; renewable and nonrenewable resources; environmental effects of chemicals, plastics,
textiles, wastes and other materials; chemical and radio-chemical hazards; introduction to the various areas of science and technology.

200-LEVEL
FIRST SEMESTER
BFN 211: PRACTICE OF BANKING 1 (3 Credit Units)
The course aims at promoting the understanding of banking principles, procedures and practice with particular reference to Nigeria. Basic principles of banking relationship of Bankers and Customer Mandates, power of Attorney, Secrecy, Set-offs and appropriation of payments, opening and operation of various types of accounts; private, institutions, clubs, societies, churches and trust accounts; procedures for opening and closing accounts; negotiable instruments, cheques, drafts, duties, and responsibilities of paying and collecting bankers; principles of bank lending: securities for bankers; advances; perfection and realization of securities.

BFN 212: Business Statistics 1 (3 credit units)
This is the first if a two-semester course in elementary statistics as applied to problems in business and management studies. This first segment focuses on descriptive statistics. The topics covered include: Nature of Statistics, Statistical Inquiries: Forms and Designs; The Role of Statistics in Scientific Enquiry; Basic Concepts in Statistics: Data, Population and Sample; Variables: Discrete and Continuous variables; Functional Relationships. Secondary and Primary Data, Source of Data, Frequency -Distributions, Measures of Central Tendency, Measures of Dispersion in Single and Grouped Data; Moments, Skewness and Kurtosis; Laws of Probability; Elementary Probability Distributions:

BFN 213: Mathematics of Finance (3 credit units)
This course covers aspects of business mathematics useful in solving business, financial, and accounting problems. The topics to be treated include: computations of interest, and period of interest; methods of interest calculations: discounting notes and drafts; customer credit; interest charges on unpaid balances and past due accounts. Discounts and allowances: trade, quantity, cash, markdown. It also exposes students to the methods of calculating costs, including marketing cost analysis, cost and retail prices; as well as calculating payroll and personal income taxes, National Provident Funds and script (stock) dividends. Other areas covered by the course include valuation of goodwill shares/stock and bonds: accounting and business terms/symbols.

BFN 214: PRINCIPLES OF INSURANCE
This is an introductory study of the principles of insurance and the role of insurance in the economy. Topics covered by the course include: Concept of Risk and Insurable Interest: Classes or Types of Insurance Policies (Marine. Motor. Fire, Fidelity, Loss of Profits and different types of Life Policies), the Principles of Average and Subrogation. Reinsurance. Claims Procedures. etc.

ACC211: Financial Accounting 1 (3 credit units)
Review of ACC 121. further problems on incomplete records, preparation and presentation of final accounts of non-commercial organizations such as clubs, societies, trade unions, churches, mosques etc. Reserves and provisions, accounting treatment of fixed assets and current assets based on SAS 3. introduction to partnership accounts including the final accounts. Changes in partnership: admission/death/retirement of partners including treatment of goodwill, partnership case laws; dissolution of partnership-piecemeal realization in partnership, and Joint Venture Accounts.

ACC 213: Cost Accounting (3 credit units)
This course gives the history, principles and objectives of cost accounting information, comprising cost accounting aspects (details) of materials, labour and overhead. Integrated and uniform cost
accounting job costing contract and batch costing, process costing, (detailed treatment of joint and by-products as well as spoilage, evaluation of process stock using FIFO, LIFO and average prices. Funds flow statement, break-even and cost volume-profit analysis).

**BUS 211: Principles of Management (3 credit units)**
This course is a general introduction to the concept, principles, processes, and significance of management within the context of business and non-business organizations. The course examines in depth the primary managerial activities of planning, organizing, staffing, coordinating, motivating, directing, budgeting, and controlling.

**BUS 213: Principles of Marketing (3 credit units)**
This course is a general introduction to the concept, principles, processes and significance of management accountings banking and finance, and other disciplines to the basic principles involved in the study of marketing as an academic discipline and the practice of marketing as a business function and a profession. In treating marketing as business function, the courses on micro marketing issues as they relate to the performance of marketing activities from the standpoint of a single business or non-business organization. Issues discussed include the nature and development of market mix variables by the firm and the role and functions of marketing in corporate management. Because this is a beginning course in marketing for some students and also a terminal one for others, coverage will be widened to empower those who may not have the opportunity to study marketing again till they graduate. However, treatment of then primary marketing activities of product planning and development, pricing, promotion and distribution will be deepened to build a strong foundation for the rest. The pedagogical method combines the normal classroom lectures and tutorials with the case method.

**ECO 211: Micro Economic Theory 3 credit units)**
The course builds on the foundation students were exposed to in ECO Ill, Topics covered include: Theory of consumer behavior: utility approach. Indifference curve approach, Topics in consumer demand market structures, output and pricing under values market structures perfect competition, monopoly monopolistic competition, oligopoly. Other areas covered by the course include the theory of distribution tender perfect competition, input pricing and employment under imperfect competition.

**SECOND SEMESTER**
**BFN 221: Practice of Banking I**
The course aims at promoting the understanding of banking principles, procedures and practice with particular reference to Nigeria. Basic principles of banking relationship of Bankers and Customer Mandates, Power of Attorney, Secrecy, Set-off’s, and appropriation of payments, opening and operations of various types of accounts: private, institutions, clubs, societies, churches and trust accounts: operation and closing of accounts: negotiable instruments, cheques, drafts, duties, and responsibilities of paying and collecting bankers; principles of bank lending; securities for bankers’ advances; perfection and realization of securities.

**BFN 222: Business and Corporate Finance (3 Credit Units)**
Working capital management: sources of short term funds, optional working capital level and its application to the control of credit facility: inventory/stock management, cash and short term loan and overdraft: management of long-term finance, determination of cost of capital optional structure, capital market institution and regulatory agency, the market for new issues and methods of issue, the secondary market, lease financing.

**BFN 22: Business Statistics II (3 credit units)**
This course focuses on inferential statistics. A study of the methods of making inferences or drawing conclusions from sample data to the statistical population from which the sample was drawn and
making decisions or predictions about the population parameters of interest based on sample data. The topics include hypothesis testing and estimation, contingency table analysis and chi-square applications, simple and multiple regression analysis, analysis of variance and covariance.

**BUS 224 Business Communication (3 Credit Units)**
This course teaches the students the basic rudiments of communication. It defines the different types of communication as well as its basic principles. Other topics include: functions of communication, communication theories and models; linear model, interactional model, transactional model, etc. Corporate and public communication, writing and other communication methods, corporate and public communications are covered by the cover.

**BFN 225: ELEMENTS OF BANKING (3 Credit Units)**
The course gives the basic concepts and definitions of money and credit: origin, functions and characteristics of money and credit; money creation by commercial banks: different types of money: elementary quantity theory of money: the concept. evolution and structure of Nigerian banking system: different types of banking institutions: Central Bank of Nigeria, commercial banks, development financial institutions e.g. Bank of Industry; non-bank financial intermediaries. The evolution and structure of international banks: World Bank and its affiliates, The IMP including Special Drawing Rights (SDRs). Euro currency. ADB. etc. The course also covers the basic concepts of banking: principles of good lending. the concept of liquidity, profitability, capital adequacy costs, convenience and confidence. Finally, the course covers some critical issues in Nigerian banking including banking habits and its development, government participation in banking. the foreign exchange market, the role of the (bartered Institute of Bunkers of Nigeria and the Financial Institute Training Center in the development of manpower in banking.

**ACC 221: Financial Accounting 11 (3 credit units)**
Review of ACC 211, Bills of exchange, consignment accounts, containers account, goods on sale or return. Royalties account, voyage account, insurance claims accounts, sinking fund accounts; investment accounts, contract accounts including treatment of SAS 5.

**ECO 221: Macro Economic Theory (3 credit units)**
This course builds on the foundation students were exposed to in ECO 121. It is primarily concerned with the study of relationships between broad economic aggregates. Topics include National Income (accounting and determination) aggregates saving and consumers expenditure, investment, employment, money supply, price levels, balance of payment. The course attempts to explain the determinants of the magnitude of these aggregates and their rates of change-over time.

**300-LEVEL**
**FIRST SEMESTER**
**BFN 311: NIGERIAN BANKING AND FINANCIAL ENVIRONMENT (3 Credit Units)**
The course teaches the growth structure and role of banking and financial institutions in Nigeria: development of the Nigerian financial system and appraisal of their development performances: financial development and real development, the development of the central banking, its role and monetary policy functions; the evolution and structure of banking institutions in Nigeria and their performance. Commercial and merchant banks and cooperative banks; level and regulatory environment and factors affecting the future development of the financial system and policy implications; government intervention in banking will be covered by the course.

**BFN 312: MONETARY THEORY AND POLICY (3 Credit Units)**
The topics covered by this course include the structure and functions of financial systems and markets, general outline of financial institutions, markets and their roles, competition between banks and other
financial institutions, theories of money, money supply and demand, demand and supply of financial
assets, determination of money stock, interest and prices. Other topics covered by the course include
stabilization policies such as monetary policy (techniques and efforts), policy objectives, conflicts,
trade-offs and coordination, international adjustment and liquidity.

BFN 313: FINANCIAL MANAGEMENT I (3 Credit Units)
The emphasis in this course will be to provide the required framework for the rapid understanding of
finance. Topics covered in the course are: meaning and goals of finance, mathematics of finance,
capital budgeting (certainty and uncertainty), cash flow forecasting techniques for project evaluation,
cost of capital, financial leverage, capital structure theories, risk analysis and diversification, dividend
policy and internal financing, portfolio theory and management, efficient market hypothesis,
securities evaluation, capital asset pricing model (CAPM), etc. Other topics covered by the course
include foreign currency transactions, analysis and interpretation of financial statements and reports,
business failures.

BEN: 314: PROJECT ANALYSIS AND EVALUATION (3 Credit Units)
The course begins with an introduction to the scope and benefits of projects. Topics covered include:
the costing of projects desirability; this will require students to go through a rigorous exposure to the
tools of project appraisal and the difficulties with special reference to Nigeria.

BFN 315: BANKING METHODS AND PROCESSES (3 Credit Units)
The topics covered by this course include banking mechanisms, mode and methods of payments,
evolution of methods and processes, instruments of payments in the system including the clearing
houses, electronic and remote (iii ids transfer system. and social aspects of banking processes.

BFN 316: LAW RELATING TO BANKING (3 Credit Units)
This course will expose students to the essential ingredients of banking laws (statute and regulations),
agency, partnership and company law, bankruptcy law, laws in cheques and negotiable instruments and
bills of exchange, legal aspects of securities for banker advances guarantees, and other aspects of
general and business laws relevant to practicing bankers, banking laws in Nigeria.

LAW 313: BUSINESS LAW (3 Credit Units)
This course focuses on the Nigerian legal system, sources of Nigerian law, division of powers between
the federal and state governments, status law (its legislations and interpretations, history and
development of common law and equity laws). The course will also present the hierarchy of Nigerian
law courts, distinction between civil and criminal liability, the nature of tort. the basis and extent of
various types (51 interest in their legal person, corporate personalities of the doctrine of ultra vires of
contract, law of commercial agency, sales of goods, carriage goods, negotiable instruments, hire
purchase and installment purchase; suretyship and guarantees, pledge, lease and exchange control.

ACC 314: MANAGEMENT ACCOUNTING (3 Credit Units)
The topics covered in this course are: the nature and functions of management accounting, the dual
purpose of planning and control. costs for decision making, marginal costing and contribution
analysis. break-even analysis, cost-volume profit analysis, margin of safety, sales mix and CPV charts.
Other topics of the course include the concept of opportunity cost and limiting factors, learning curve
theory, budgeting and budgetary control, application of qualitative techniques. e.g. statistical methods
such as least squares, standard deviation, correlation, regression. etc. Standard costing. all variances
including profit. contribution mix and yield variances, interpretation of variances for management
decision, planning and operational variances are also included in the course.
SECOND SEMESTER

BFN 321: NON-BANK FINANCIAL INSTITUTIONS AND MARKETS IN NIGERIA (3 Credit Units)
Topics covered in this course include the nature and functioning of the different types of non-bank financial institutions: traditional and informal financial markets; government role in the development of financial institutions and markets; evolution, development and performance of development banks, mortgage finance institutions, insurance institutions, pension funds, provident institutions and finance houses. Other topics covered by the course include the role and economic impact of the institutions, the impact of government legislation and the problems and prospects of the institutions, the money and capital markets: formal and informal; the Nigerian Stock Exchange, the Second Tier Securities Market and the Securities and Exchange Commission.

BFN 322: COMPARATIVE BANKING (3 Credit Units)
The course is designed to teach students the dichotomy between specialized banking (i.e. where commercial banks are different from merchant banks) and universal banking (i.e. where banks carry out commercial and merchant banking operations under the same roof). The course will also expose students to the concepts of armchair banking and dynamic banking, distinction between unit banking and branching banking, structure of liabilities-determinants of proportion between time deposits and demand deposits, structure and functions of central bank, central bank and development finance, central bank and commercial banking, development banks and re-finance institutions, techniques of control of rural credit: orthodox and unorthodox comparative discount mechanism, theories of banking: the liquidity principle, the matching principle, short-term lending. medium-long-term lending: and the banking systems in the advanced countries.

BFN 323: FINANCIAL MANAGEMENT 11(3 Credit Units)
This course is aimed at preparing students in the techniques of financial management, investment, capital market and institutions and corporate finance. Topics covered are types and sources of funds, inventory management, management of debtors, cash management, cash budgeting, fund flow statement, break-even analysis, ratio analysis, capital market operations in Nigeria, security analysis, capital investment decisions investment criteria: payback, rate of return on capital, discounted cash flows, net present value, internal rate of return, profitability index, uncertainty and risk analysis, and mergers and acquisitions.

BEN 324: PRACTICE OF BANKING II (3 credit units)
Topics covered in this course include loan administration and policy in banks; interpretation and criticism of balance sheets and management accounting for the lending bankers; handling of negotiable instruments and perfecting of securities banking bankers’ advances, guarantees, property. Etc, and bankruptcy procedures. Other topics of the course include marketing of various banking specialist services such as investments, insurance, hire purchase, and business advisory services; case study of marketing of financial services in selected advanced countries; understanding security: meaning, function, attributes of good security, types of security arrangement, bank security forms: standard clauses: securities given by companies; charges and their registration; debentures; fixed and floating charges.

BFN 325: FINANCIAL SYSTEM (3 Credit Units)
The major topics covered in this course are the central banks, commercial banks, development banks, investment companies, insurance companies, etc. Other topics include the role, function, evolution, structure and performance of banks; rural banking: marketing of bank services; financial markets; comparative banking and financial institutions; international financial system, e.g. World Bank Group; International Monetary Fund (IMF), African Development Bank (ADB): the unorganized financial
sector: the traditional financial system such as esusu, ajo, etc; topical issues in Nigerian banking and finance, e.g. distress, bad debt, etc.

BFN 327: QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS
This course introduces the students to the tools of management science methodology and their applications in analyzing varieties of business problems. The course content will focus on mathematical programming, such as linear programming and applications to special types of problems in business management, product mix problems, the transportation problem, transshipment problem, and assignment problem. Other topics in the course include network models such as PERT-CPM techniques and their applications in project management: dynamic programming; game theory: two-person; zero-sum games and their applications in management decision situations; decision theory; queueing theory; inventory models; Markov decision processes and their applications; decision support systems; applications of computer software and packages, including using internet in QA problem-solving will be introduced.

BUS 324: BUSINESS RESEARCH METHODS (3 Credit Units)
This course exposes students to meaning of research; research as a scientific enterprise; basic concepts in scientific inquiry; scientific research: it meaning and importance in academic, business and social research: basic types of research; basic concepts in research (such as variables, concepts, constructs, measurements, propositions. hypotheses, models, theories, laws, and so on): choosing a topic for research; problem statement; research questions; literature review; model building and conceptual framework; research proposal; measurement and scaling; consideration of validity and reliability of measurement; defining the research population; sampling techniques. data collection techniques; data types (primary and secondary data): survey versus experiments: data collection instruments; questionnaire design and methods of administration; office treatment of pre-gathered data (editing, coding, and so on); data presentation (tables, charts, cross tabs, etc); data analysis and interpretation; writing a research report; problems of conduction business research in Nigeria.

POL 322: ELEMENTS OF GOVERNMENT (3 Credit Units)
The topics of this course are: the nature of politics and social organization: the State; the problem of law, constitution and constitutionalism: political ideology; the classical heritage, Plato, Aristotle. Stalinism and PaxRomanica Revolt; towards the mass man; organs of government (national governmental institutions): public administration, political parties and pressure groups; public opinion and propaganda; elections; international order.

400-LEVEL
FIRST SEMESTER
BFN 412: INTERNATIONAL FINANCE (3 Credit Units)
This course introduces students to the basis of trade: the theory of comparative costs and comparative advantage, impediments to trade; balance of payments; structure, interpretations and problems of definition; causes of imbalance and methods of adjustment; analysis of official intervention; stabilization funds and exchange controls; payment abroad; various forms of making payments abroad, banking services and facilities available for this purpose: problems and risk of Importation and exportation: official and unofficial assistance available to overcome the problems; the theory and practice of foreign exchange (spot and forward rates, fixed and flexible exchange rates. speculation).

BFN 413: BANK MANAGEMENT AND REGULATIONS (3 Credit Units)
The contents of this course include policies and procedures employed in banking institutions; corporate financial planning. Decisions, goals and management; capital management and capital adequacy; test of solvency (i.e. CAMEL); risk types, features, and management of bank assets and liabilities: liquidity management in banks; marketing of banking and financial services and competition among banks; manpower training and development for better management performance; management of two categories of banking institutions: commercial-banks and investment banks: bank-customer relationship; features of negotiable instruments and other diverse aspects relating to account holders; criteria for lending to borrowers; universal banking: the regulatory frameworks/laws of the monetary authorities and their implications for banks and other financial institutions: banking act of 1952; formation of the Central Bank of Nigeria (CBN Act of 1958); CBN control of banks activities; CIBN Act No.12 of 1990; the CBN Act No.24 of 1991; banks and other financial institutions Act No.25 of 1991; Nigerian Deposit Insurance Corporation (NDIC) Act No.22 of 1988; Money Laundry Act No.3 of 1995; failed banks (recovery of debts and financial malpractices in banks Act No. 18 of 1994; other current banking regulations.

BFN 414: CAPITAL MARKET AND PORTFOLIO THEORY (3 Credit Units)
The course focuses on portfolio approach to the selection of financial assets and investment in financial assets. It is intended to enable students understand how to effectively participate in the capital market by utilizing the mass of data available in the financial market institutions (evolution, structure, legislation. functions and problems); the Nigerian Stock Exchange. the Abuja Commodity Exchange. Other topics covered in the course include portfolio price; CAPM for evaluating portfolio performance; expected return on portfolio; risk measurements; two-assets case; N-assets case; efficient market risks; the optimal portfolio; risk and tinting of return; risk adjustment; participation by students in the models for evaluating portfolios in the Nigerian capital market.

BFN 416: PUBLIC FINANCE (3 Credit Units)
This is an intermediate course and topics covered include: government revenue and expenditure; size of government spending, consumption and expenditure; criteria for evaluating public goods and private goods; social balance; spill-over; revenue sharing formula in Nigeria; public debt and the application of Pareto optimality to issues of revenue allocation and Nigeria’s experience in the light of different venue allocation exercise.

BFN 417: BANK LENDING AND LOAN ADMINISTRATION (3 Credit Units)
This courses focuses on the objectives of bank lending and credit administration; lending appraisals and decisions; types of loans; security/collateral acceptable to lending bankers and the mode for perfection; constraints of bank lending; pricing of loans; loans supervision and monitoring; problems of default and bad debts; recovery strategies. -

BFN 418: MARKETING OF FINANCIAL SERVICES (3 Credit Units)
The course introduces students to the concept and role of marketing in the financial services delivery industry: how services are different and the implications of these differences for services marketing; the special characteristics of financial services: understanding customer/client behavior and decision processes in the service sector; customer orientation: developing brand and customer loyalty in the financial services industry; marketing segmentation; targeting and positioning in the service industry; developing financial services/products and product and brand management in the financial services industry; developing and managing distribution channels in the financial services industry: the impact of technology on service distribution system; developing and managing marketing communication process in the financial services industry; developing competitive strategies in the financial services industry: pricing policies and practices in the service industry; internal and external environmental factors affecting marketing in the financial services industry.
SECOND SEMESTER

BFN 420: INVESTMENT BANKING (3 Credit Units)
The topics covered in this course include: evolution of merchant banks; distinguishing features and functions of merchant banks; laws and regulations guiding merchant banking; merchant bank methods and processes; structure and performance evaluation of some merchant banks and problems confronting them; syndication.

BFN 424: MANAGEMENT INFORMATION SYSTEM (3 Credit Units)
This course introduces - students to the meaning, objective and - requirement of management information system (MIS) in organizations; information needs of management and design of MIS, managerial need of the information output as a basis for developing criteria and systems; computer environment and use of computer- based techniques; electronic data processing (EDP) methods; batch processing; real-time processing; computer reports (error reports, exception reports, etc); report format; form design; flow charting; networking systems analysis; design techniques and documentation; user environment in systems development and life cycle; computer service bureau and cyber services; office automation: e-mail, internet. etc.

BFN 426: CORPORATE FINANCE (3 Credit Units)
This course gives a more advanced treatment of the theoretical bases and/or economic rationale of the investment-financing -decision criteria; valuation objective; single period and multi-period investment consumption of model; theories of valuation and financial policy; investment decisions under certainty and uncertainty; the capital asset pricing model (CAPM) and option pricing; the behavior of stock market prices and efficient market hypothesis; interactions of investment and financing decisions; the theory of optimal capital structure and dividend policy.

BFN 427: INVESTMENT MANAGEMENT (3 Credit Units)
The objective of this course to provide the students with the basic process governing the investment of funds from the standpoint of the investor outside the firm, and decisions as to which industry and company they have chosen.

BFN 428: MORTGAGE BANKING & MICRO CREDIT (3 Credit Units)
This course introduces students to the concept and meaning of mortgage banking; evolution of mortgage banking in Nigeria; recent developments in the Nigerian mortgage industry; mortgage products and services in Nigeria: the primary and secondary segments of the mortgage market: the mortgage documents; the mortgage repayment plans, borrower qualification; property analysis; micro-credit market (i.e. traditional and informal financial markets including families/friends/neighbors, self-help savings groups, cooperative societies, professional money lenders, land owners/retailers.

BIN 429: SPECIAL RESEARCH PROJECT (6 Credit Units)
This is a two-semester course in which the student, under the supervision of an assigned lecturer, undertakes a research project in order to gain practical knowledge of, and demonstrate competence in, designing and executive an original study or investigation of a local problem in banking, finance, or any management science-related area approved by the Head of Department. The student writes a research report on the project topic which is expected to demonstrate and improve upon the skills acquired in BUS 324, submits bound copies at the end of the second semester, and defends it before a panel of internal examiners, or the external and internal examiners to earn a grade.

BUS 421: STRATEGIC MANAGEMENT & BUSINESS POLICY (3 Credit Units)
This is the second segment of the two—semester course started in BUS 411. It focuses on the development of business policy as a top management function. The concept of policy and decision making will be examined from the top management perspective and corporate management of human organization as corporate plans, strategies and policies are implemented at all levels of the organization. The concluding parts of the course take particular cognizance of the problems associated with top management planning and control, conflicts between top management control and strategic planning, and planning and controlling specific tasks with particular reference to personnel, marketing and production operations management.

DEPARTMENT OF BUSINESS ADMINISTRATION

Welcome Address by the Head of Department

I am highly pleased to welcome you all, freshmen and returning students to our Department, the Business Administration Department (DBA) at Sanusi Lamido Sanusi College of Business & Management Studies in Igbinedion University, Okada.

I also congratulate all new students who recently joined us; they have made a sound choice, as they will soon find out. The Department is one-stop learning centre for knowledge, professionalism and skills acquisition. At DBA, we fuse learning and practice as a life-long flight.
Please endeavour to maximize your potentials at DBA, by taking advantage of the numerous assistance we have in place for you. Your academic achievement is very important to us. and it is our hope that your stay will be pleasant and memorable.

I also urge you to read this Student Handbook thoroughly. You will find answers to many questions you would have wished to ask; it contains up-dated and new information for both fresh and returning students in-line with the dynamic nature of the learning environment.

Finally, please do not hesitate to approach me or any staff in DBA if you should have inquiry (ies) concerning your studies. We are all hereto assist you.

Once more, you are all welcome.
Sincerely,

Dr. S.M. Aguwamba
Ag. Head of Department
Business Administration.

1.00 PROLOGUE

1.01 A Brief History
The Department of Business Administration, Igbinedion University Okada came into existence in October 1999 as a founding member of the College of Business and Management Studies. Mr. T.O Ogwusye was the pioneer-lecturer-in-charge, and the Department began with an enrolment of 9 students who graduated in the 2003/2004 academic session.

1.02 The Present
Presently, the Department is part of the Sanusi Lamido Sanusi College of Business & Management Studies and its programmes commenced with the birth of the university in 1999. The student population has steadily grown to 100 in the present academic session (2015/2016), while emphasis in
academic training is orientated towards professional proficiency and managerial competence in all functional areas of business and management.

1.03 Programme’s Philosophy and Objectives

A-Philosophy:
The philosophy of the B. Sc. in Business Administration programme is to develop both theoretical and practical knowledge, skills and proper attitudes in students, for confidence and entrepreneurship exploits; to be innovative and self-reliant in the fields of business-management, business-ownership and business-scholarship.

B-Objective:
The primary aim of the programme is to produce Nigerian graduates in Business Administration, with fervor for innovation and solutions to the country’s myriad business challenges as well to:

1) Provide students with knowledge, skills and the right attitude for analyzing and solving problems in management and commerce for both public and private corporations, as well as other human organizations.

2) Inculcate superior - decision-making approaches in students especially the analytical skills needed for recognizing various forms of business and management challenges and their solutions.

3) Cultivate strong leadership and interpersonal qualities in students, which will prepare them as professionals and business executives in industry, government and non-government organizations.

4) Develop students computing, data processing, quantitative techniques, interpersonal and communication skills, as well as their general strategic and entrepreneurial skills.

1.04 B.Sc. degree in ‘Integrated Business Administration’
The Department offers a B.Sc. degree in Integrated Business Administration: And it has, as one of its principle goals, the production of seasoned graduates of excellent quality, who would join the larger society as entrepreneurs capable of creating jobs and not looking for them.

The undergraduate programme of the Department is full-time; students may not undertake any regular paid job while enrolled for study.

1.05 The Department of Business Administration also offers a B.Sc. Business Administration (Part-Time) programme for a period of five years.

<table>
<thead>
<tr>
<th>S/ N</th>
<th>NAME</th>
<th>RANK</th>
<th>QUALIFICATIONS</th>
<th>AREA OF TEACHING AND RESEARCH SPECIALIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D.G.E. Mbaegbu</td>
<td>Associate Professor</td>
<td>B.Sc. M.Sc., MBA, PhD.</td>
<td>Human Resource Mgt., Organizational Behaviour, Entrepreneurship &amp; International Business</td>
</tr>
<tr>
<td>2</td>
<td>Mrs. Elizabeth Akpeti</td>
<td>Senior Lecturer</td>
<td>B.Sc., MBA, M.Sc., PhD</td>
<td>Statistics, Mathematics, Quantitative Analysis, Operations Research, Production Management</td>
</tr>
</tbody>
</table>
2.00 ADMISSION REQUIREMENTS
Students are admitted to the undergraduate programme in Business Administration in any of the following ways:
- Through the University Matriculation Examination (UME);
- Through Direct Entry; or
- Through Inter-university Transfer.

2.01 The University Matriculation Examination (UME) Entry
Prospective students who seek admission through the UME, for the 4- year level- 100 programme, leading to the award of the Bachelor of Science (B. Sc.) degree in Business Administration, should possess a minimum of 5 credits at the GCE/NECO/WAEC examinations, the subjects passed must include English Language, Mathematics and Economics or Commerce.

Also, UME-based prospects must obtain an acceptable score on the Joint Admission and Matriculation Board (JAMB) exams. Alternatively, they may offer 5 credits obtained in the examinations conducted by the National Board for Technical Education (NABTEB), in equivalents of the above subjects.

2.02 Direct Entry
Candidates seeking ‘Direct Entry’ to the level-200 programme of the Department should possess at least a pass in 2 subjects of the Advanced Level GCE. Those with passes in 2 subjects at the NCE or Diploma programmes of recognized institutions are also eligible, provided they satisfy the university’s matriculation requirements.

2.03 Inter-University Transfer
Candidates wishing to transfer from other universities to the Department must obtain and fill-out an inter-University Transfer Form from the Admissions Office. Such applications will be treated on their merits. Inter-university transfer candidates may not be admitted into programmes higher than the 200-level.

2.04 Requirements in General Studies (GST)
The Business Administration degree in the Department requires students to take compulsory GST courses at the ‘100’ and ‘200’ levels, which they must pass before they can graduate. Also, Direct Entry students must pass or show evidence of having passed all 051 courses; waivers may only be granted to those whose previous universities offer the equivalent of IUO GST programme.

2.05 Requirements in Entrepreneurship Studies (EPS)
In the second and third years of their studies, students of the Departments are required to take compulsory courses in BPS like all other students of IUO. (Please refer to course descriptions on EPS 221 & 311 for details).

2.06 Requirements on Electives
Students are required to take elective courses from other Departments within the Business and Management College, as well as from other related Colleges of the University, in the first 2 two years of their studies; while they concentrate in their major field of studies in the 2 final year(s).

3.00 COURSE CREDIT AND GRADING SYSTEM
The University operates the course-credit system made up of study- areas that are broken down into divisions referred to as courses; these courses are examinable units. Also, the courses are assigned credit- loads, thus students earn credits for the courses they pass.

3.01 Credit Unit
A credit-unit refers to the specified number of hours of student- teacher contact, for lectures/tutorials oft hour per week, per semester of 15 weeks. Hence 1 credit-unit is equal to 1 hour of lecture or tutorial per week, or an equivalent amount of study i.e. seminar, laboratory, industrial attachment, fieldwork or any combination thereof.

3.02 Grade Point Average (GPA)
The GPA measures students average performance for the semester/session, expressed in grade-points earned in all the courses taken during the semester/session. The GPA is derived from student’s raw score in the courses taken; it is computed by multiplying the grade-point (GP) attained in each course, by the credit-unit (CU) assigned to the course and dividing the sum for the total-credits (TC) taken in the semester or session, i.e. \( \text{GPA} = \frac{\text{GP} \times \text{CU}}{\text{TC}} \).

3.03 Cumulative Grade Point Average (CGPA)
This is the collective average or the mean of all grade-points earned by the student at some terminal point in his/her study, or the completion of studies, The cumulative grade point average (CGPA) depicts the student’s overall performance in his/her study. CGPA is derived by multiplying the students grade-point earned in each course by the respective credit-unit, and summing the product for all the courses, taken, to the present, and then dividing the aggregated sum by the sum of the total-credit-units of all the courses registered by the student. i.e. \( \text{CGPA} = \frac{\text{GP} \times \text{CU}}{\text{TC}} \).

3.04 Work Load
This refers to the minimum and maximum number of credits students are expected to take during the semesters and sessions. Students may normally register for a minimum of 40 credits and a maximum
of 50 credits in any academic year; i.e. between 20 and 25 credits per each semester in the academic year.

4.00 PROBATION
A student will be placed on probation for the next session, if his/her Grade Point Average (GPA) is less than 1.50 at the end of an academic session. Again, if at the end of the probation, the student’s GPA is still less than 1.50, then the student will be required to withdraw from the programme. A student so withdrawn may choose not to leave the University entirely. He/she may transfer to another programme within the College of Business and Management Studies, or any other programme ready to accept him/her.

5.00 COURSE CODING
All courses of the Department are coded by assigning them a 3-letter prefix, followed by 3-digit number. The 3-letter prefix and 3-digit number indicates the College, Department. Level and Semester represented. The Business Administration Department courses are thus represented by the prefix: ‘BUS’. Other prefixes in the Department are ‘MGT’ management, ‘MKT’ marketing; while other programmes in the Business and Management College are ‘ACC’ Accounting and ‘BFN’ Banking & Finance.

5.01 Course Level and Semester Codes
Furthermore, the 3-digit numbers indicating levels and semesters are assembled in 4-group of sequences numbered ‘111 - 199’, ‘211-299’, ‘311-399’ and ‘411-499’. The first digit in the sequence represents the level of study, the second digit represents the semester, while the last digit is the number assigned by the Department to track the course. Thus the digits representing levels are assigned:

- Level 100 ‘1’
- Level 200 ‘2’
- Level 300 ‘3’
- Level 400 ‘4’

While the first or second semester is denoted by the second digit in the 3-digit coding as follows:

1st Semester ‘1’ or any odd number
2nd Semester ‘2’ or any even number

Therefore, for example, BUS 112 refers to a Business Administration Department course that is offered in level-100, in the first semester and is assigned a Departmental tracking number of ’2’.

6.00 REGISTRATION
New and returning students are required to register at the beginning of every new session. All students must register for the courses they will offer during the session, using registration documents from the Examination and Records Unit of the Registry. A student is NOT considered fully registered in an academic session, unless and until his/her on-line registration process is completed. Late registration fee is charged by the University, and a student who registers late must show late-fee payment record, to be bona-fide student of the Business Administration Department.

Any student who fails to register within two months of the beginning of the session, he/she shall not be allowed to register for that session. He/she shall also not be allowed to sit for any examinations in the 2 semesters of the session either. Such student shall also be deemed to have voluntarily withdrawn from the University, and may only be readmitted into subsequent sessions with the approval of the University’s senate.
7.00 COURSE/LEVEL ADVISERS
Each course-level (100 to 400 level) has an assigned Adviser, appointed from among the academic staff of the Department, to counsel students on general university regulations; as well, ensure that students register for the courses that facilitate their successful completion of the programme.

Also the Course Level Adviser has the responsibility of ensuring the accurate registration of students in the courses required of their level. The Adviser is as well responsible for ensuring timely and accurate completion of Registration Forms, Course Forms and all Examination Forms submitted by the students. The Adviser is to authenticate student’s documentation and advise them on outstanding or carryover courses required from them, before reaching the Departmental Head. Course Advisers are thus expected to exercise high sense of responsibilities and diligence in these duties.

8.00 COURSE LISTING
Courses required to be taken, leading to the award of the B. Sc. (Business Administration) degree are categorized as follows:

8.01 Courses with Pre-Requisite
Courses having pre-requisites are advanced level courses, which a student may not offer unless he/she has passed the lower level course.
However, a student who has not passed a lower level course may be allowed to register for both courses the lower and the higher level course concurrently, subject to the approval of the Department.

8.02 Core-Courses
Core-courses must not only be offered by students of the Department, but they must also be passed, for the award of the B. Sc. Business Administration degree.

8.03 Compulsory Courses
Compulsory courses are those which students must take as part of the degree programme they are registered for. These courses may be offered by the Department or its sister Departments in the College of Business and Management studies.

8.04 Elective Courses
Elective courses, as their name suggest, are chosen according to student’s interest, though subject to Departmental approval. These courses are supplemental to the core and ‘compulsory courses’. Elective courses may also be taken from other Departments within the college of Business and Management studies, or from other Departments in other Colleges of the University.
Course Advisers are to counsel students on elective courses to take, in and outside the College of Business and Management Studies.

9.00 CHANGING OF COURSE
Students may ‘add or drop’ courses for which they are registered within one month of the beginning of lectures. However, such changes can only be allowed, subject to the approval of Departments receiving the ‘add’ or ‘drop’.

10.00 DURATION OF THE DEGREE PROGRAMME
The B. Sc. Business Administration degree has a minimum residency of 3 years, for Direct Entry students, and 4 years for UME students. The maximum number of years allowable in the programme, to earn a bachelors degree is 6 years.

11.0 GRADUATION REQUIREMENTS
Students will qualify for graduation upon successfully completion of the under listed:

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- He/she has matriculated in the University;
- He/she is duly admitted to the programme;
- He/she has paid all required fees;
- He/she has passed all GST and CS courses;
- He/she has passed all EPS courses;
- He/she has passed all prescribed courses;
- He/she has successfully submitted a Research Project;
- He/she has a CGPA of not less than 1.50; and
- He/she has earned a minimum total of 120 credit-units.

11.01 Credit-Unit Distribution: 4-year Programme
The 120 minimum total credit-units requirement for graduation must be obtained in the distribution of at least 30 credits-units per session, in a 4-year programme as follows:
- 30 credit-units from level 100
- 30 credit-units from level 200
- 30 credit-units from level 300
- 30 credit-units from level 400

11.02 Credit-Unit Distribution: 3-year Programme
For a 3-year programme, a minimum of 90 credit-units are required for graduation, with at least 30 credits accumulated in each session as follows:
- 30 credit units from 200 level courses
- 30 credit units from 300 level courses
- 30 credit units from 400 level courses.

12.00 GUIDELINES FOR EXAMINATIONS AND GRADING
For the purpose of examinations, the following procedures and guidelines are to be adhered to:

A. Examinations:
Lecturers are to set the minimum of 12 questions for Essay examinations; while an External Examiner chooses 5 questions from the 12, and the students answer 4 questions from the 5. Examinations must be moderated by External Examiners before administering them to students. Time allowed for written Departmental examinations shall normally be not more than 1 hour for each credit-unit of the course an examination is set for but not less than 2½ hours in total. No more than 1 (one) course shall be examined on any one paper.

Other forms of examination in the Department may include oral examination, inspection of practical work, assessment of students’ work-book, evaluation of project, appraisal of group work and special reports. etc. (All non-traditional forms of Departmental examinations are subject to approval of the University’s senate, on recommendation of the College Board of Studies.). All courses offered by students shall be examined during the semester in which they are offered; and candidates will be credited for the courses they have passed.

B. Grading
Courses shall be graded from a maximum of a 100 marks. Students who obtain less than 45 marks in a course, (continuous assessment scores inclusive) shall be deemed to have failed the course. Such students may be required to carry-over the course; as total results for the semester are forwarded to the College of Business and Management Studies from the Department for publishing, after approval of the Senate. Published results is to show student’s matriculation number, the courses taken and the credit-units attempted, including the student’s raw scores and the corresponding letter grades.
### Table B Student Performance Index

<table>
<thead>
<tr>
<th>Raw Scores (%)</th>
<th>Letter Grade</th>
<th>Grade Points</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-100</td>
<td>A</td>
<td>5</td>
<td>Excellent</td>
</tr>
<tr>
<td>60-69</td>
<td>B</td>
<td>4</td>
<td>Very Good</td>
</tr>
<tr>
<td>50-59</td>
<td>C</td>
<td>3</td>
<td>Good</td>
</tr>
<tr>
<td>45-49</td>
<td>D</td>
<td>2</td>
<td>Pass</td>
</tr>
<tr>
<td>00-44</td>
<td>F</td>
<td>0</td>
<td>Fail</td>
</tr>
</tbody>
</table>

**12.01 End Semester Examinations**

Students will sit for an end-semester departmental examination in all the courses they registered. The semester examination shall constitute between 60 to 70 percent of the total marks/grades obtainable for each course. Numerical-scores and Letter-grades will be assigned to courses that are passed. Both the GPA and the CGPA will be calculated on the basis of the total number of courses registered during the semester, whether passed or failed.

**12.02 Continuous Assessment (CA)**

There shall be continuous assessment for all courses offered by the Department. The continuous assessment would consist of class attendance, periodic test(s)/quiz(es), tutorials, mid-semester examination(s), written assignment(s), term paper(s), etc. The CA shall contribute between 30 to 40 percent of the total marks for each course.

**12.03 Moderation and Appointment of External Examiners**

All Departmental examinations from level-100 to level-400 are moderated by External Examiners, including examination questions, marking schemes, etc. Also, the External Examiners vet course-outlines for all levels. And for the level-400, they will participate in computing students’ overall results and the classification of final degrees.

**12.04 Internal Examiners**

The Department has a Board of Studies and Board of Examiners. The HOD Business Administration is the Chairman of both boards. The 2 Boards frequently deliberate on issues concerning studies and examinations, as well as make recommendations to the College Board of Studies and College Board of Examiners respectively.

**12.05 Appointment of Departmental Examination Officer**

The HOD Business Administration is also the Chief Examiner responsible for proper conduct of all examinations in the Department. As Chief Examiner, the HOD appoints an Examinations Officer (EO) from among the academic staff of the Department, no lower than the of the rank of a Lecturer II. as a substantive Examination Officer. The EO is responsible to the HOD in all matters relating to examinations.

The EO is also in-charge of recording, compilation, and presentation of examination results to the Departmental Board of Examiners.

**13.00 EXAMINATION INSTRUCTIONS TO ALL STUDENTS**

1. Only students duly registered for courses in the Department will be eligible to sit for the end-semester examinations and obtain grades.
2. Students must write examinations in venues designated for them. Non-compliance with this instruction may lead to loss of scripts, disciplinary action. or both.
3. Students may not he allowed to sit for any examination, 30 minutes after the commencement of the exams.
4. For the purpose of identification in examination halls, each student must carry the University’s identity card, receipt for school fees, and entry into examination forms duly signed by the appropriate University officer(s).

5. No student may leave the examination hall 1 hour after the commencement of examinations.

6. Students are to read all instructions on the front-cover of their examination question booklet and abide by them. Information required on the examination answer booklet must also be meticulously completed.

7. All answer-scripts must be handed-in, at the end of the examination. Students must also complete and sign the Attendance Sheet for all examinations they sit.

8. Students must strictly adhere to examination instructions, as misconducts in the course of examinations are punishable by the specified sanctions contained in the University’s Students Code of Conduct gazette.

9. Students must present themselves for all Departmental examinations and continuous assessment tests, unless with permission of the lecturer in-charge and the Head of the Department.

10. Students that are unavoidably absent from Departmental examinations on medical grounds, must substantiate their claims with satisfactory/acceptable Medical Reports on their ailments.

14.00 REGULATIONS GOVERNING THE AWARD OF DEGREES IN THE DEPARTMENT

1) Method of Instruction in the Department is by courses-work; students are thus required to take approved combination of courses, as determined from time to time by the university’s senate, on the recommendation of the Departmental and College Boards of Studies.

2) The approved period of study for the award of the B. Sc. Degree in Business Administration is not less than ‘8’ semesters or ‘4’ years for TiME students and 6’ semesters or ‘3’ years for Direct Entry students.

3) Students who fail to achieve a GPA of 1.00 after 2 consecutive years shall be required to withdraw from the Department. Such students may, however, transfer to other programmes, in other Departments within or outside the College of Business and Management Studies if found acceptable.

15.00 OTHER REGULATIONS TO BE OBSERVED BY ALL STUDENTS

The above and below regulations should be adhered to by all students for the smooth running of the Department, and to ensure an environment that is conducive for learning:

1. All students are required to conduct themselves in a quiet and orderly manner, within the classrooms and the University premises.

2. Students may not change their programmes without the written consent of the Head of Business Administration Department.

3. Students who willfully damage Departmental properties will be required to pay for repairs or replacements.

4. A student who does not perform his/her academic work satisfactorily may, on the recommendation of the Department and the College, to the Senate, be asked to withdraw from the University.

5. Students are prohibited from belonging to any secret organization or cult; to do so is punishable with instant dismissal and prosecution.

16.00 CLASSIFICATION OF DEGREES

Degrees in the Department are classified as indicated below:

<table>
<thead>
<tr>
<th>Final CGPA</th>
<th>Class of Degree</th>
</tr>
</thead>
</table>

204
<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Honours Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First Class Honours</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>Second Class Honours, Upper Division</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second Class Honours, Lower Division</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>Third Class Honours</td>
</tr>
</tbody>
</table>

16.00 SUMMER SCHOOL
The Summer School afforded students opportunity to remedy or re-sit courses that they may have missed or failed. However, due to the National Universities Commission (NUC) directives, all Summer School programmes have been indefinitely suspended.

17.00 DEPARTMENTAL BOARDS AND COMMITTEES
For the smooth running and participation of all staff in the affairs of the Department, the following Boards and Committees are established:

Appointments and Promotions Committee, (A&PC)
Membership:
HOD - Chairman
All senior academic staff

Committee on Curriculum and Accreditation
Membership
HOD - Chairman
All senior academic staff

Board of Studies Committee
Membership:
HOD - Chairman
All academic staff.

Board of Examiners Committee
Membership:
HOD - Chairman
All academic staff

Postgraduate Committee
Membership:
HOD - Chairman
All Ph.D. holders.

Disciplinary Committee
Membership:
Dr. Elizabeth Akpeti Chairperson
Other elected members.

Committee on Teaching and Exams Ethics
Membership:
Dr. Elizabeth Akpeti Chairperson
Other elected members.
Committee on Research and Publications  
Membership:  
Dr. D.G.E. Mbaegbu - Chairman  
All staff of the Department.

Time-Table Committee  
Membership:  
Mr. Macaulay Augustine - Chairman  
2 Other elected members.

Library Committee  
Membership:  
Mr. Macaulay Augustine - Chairman  
2 Other elected members.

Welfare Committee  
Membership:  
Dr. (Mrs.) Akpeti Elizabeth - Chairman  
2 Other elected members.

Level-100 First Semester Courses

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BUS 111</td>
<td>Introduction to Business I</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>ACC 111</td>
<td>Introduction Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>MTH 111</td>
<td>Business Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>BFN 111</td>
<td>Introduction to Finance</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>ECO 111</td>
<td>Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>GST 111</td>
<td>Communication in English</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>GST 112</td>
<td>Logic, Philosophy and Human Existence</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>GST 113</td>
<td>Nigerian Peoples &amp; Culture</td>
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<td>TOTAL</td>
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Level-100 Second Semester Courses

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>BUS 121</td>
<td>Introduction to Business II</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>ACC 121</td>
<td>Introduction to Financial Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>MTH 122</td>
<td>Business Mathematics II</td>
<td>3</td>
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<td>4</td>
<td>ECO 121</td>
<td>Principles of Economics II</td>
<td>3</td>
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<td>5</td>
<td>GST 121</td>
<td>Use of Library, Study Skills &amp; ICT</td>
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<td>6</td>
<td>GST 122</td>
<td>Communication in English II</td>
<td>2</td>
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<tr>
<td>7</td>
<td>GST 123</td>
<td>Communication in French</td>
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<td>GRAND TOTAL</td>
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LEVEL-200
### Level-200 First Semester Courses

<table>
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<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BUS 211</td>
<td>Principles of Management I</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>BUS 212</td>
<td>Business Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>BUS 213</td>
<td>Principles of Marketing I</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>ECO 211</td>
<td>Micro-Economics Theory</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>ACC 211</td>
<td>Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>ACC 213</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
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<td>7</td>
<td>BFN 213</td>
<td>Mathematics of Finance</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>GST 211</td>
<td>History &amp; Philosophy of Science</td>
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### Level-200 Second Semester Courses

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
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<tbody>
<tr>
<td>1</td>
<td>BUS 221</td>
<td>Principles of Management II</td>
<td>3</td>
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<tr>
<td>2</td>
<td>BUS 223</td>
<td>Business Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>BUS 225</td>
<td>Principles of Marketing I</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>ACC 221</td>
<td>Financial Accounting II</td>
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<tr>
<td>5</td>
<td>ECO 221</td>
<td>Micro-Economics Theory</td>
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<tr>
<td>6</td>
<td>SAA 222</td>
<td>Elements of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>BUS 224</td>
<td>Business Communications</td>
<td>3</td>
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<tr>
<td>8</td>
<td>GST 221</td>
<td>Peace Studies &amp; Conflicts Resolutions</td>
<td>2</td>
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<tr>
<td>9</td>
<td>EPS 221</td>
<td>Entrepreneurship Studies</td>
<td>2</td>
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<tr>
<td></td>
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### LEVEL-300

#### Level-300 First Semester Courses

<table>
<thead>
<tr>
<th>S/N</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BUS 311</td>
<td>Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>BUS 312</td>
<td>Production Management</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>BUS 314</td>
<td>Management Theory</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>MGT 312</td>
<td>Small/Medium Scale Business Mgt.</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>MKT 312</td>
<td>Sales Management</td>
<td>3</td>
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<tr>
<td>6</td>
<td>ACC 314</td>
<td>Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>BFN 313</td>
<td>Financial Management</td>
<td>3</td>
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<tr>
<td>8</td>
<td>LAW 313</td>
<td>Business Law</td>
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<tr>
<td>9</td>
<td>EPS 311</td>
<td>Entrepreneurship Skills</td>
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<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>26</td>
</tr>
</tbody>
</table>

#### Level-300 Second Semester Courses
### 19.00 COURSE DESCRIPTION

**Level-100: FIRST SEMESTER**

**BUS 111: INTRODUCTION TO BUSINESS 1 (3 Credit Units)**
The objective of the course is to introduce new students of Business Administration, Accounting, Finance, Economics and related disciplines to the basic elements of Business Management. The topics covered include: Survey of Business, Fundamentals of Modern Business, Nature and Functions of Business Enterprise as well as the role, social and economic principles of Business Enterprise.

**ACC 111: INTRODUCTION TO FINANCIAL ACCOUNTING I (4 Credit Units)**
This course introduces new Business and Management students to the historical background of accounting; the nature and scope of accounting; the role of Accountants; Accounting functions and relationships to the overall information system in the organization; definition of the accounting system: source documents and their uses; subsidiary books, types and preparations. i.e. sales day book, purchases day book, return inwards day book, returns outward day book; and the journal proper. Other topics covered include the accounting equation; double entry principles; books of accounts including cash book. Ledgers, petty cash book and imprest system; posting of entries from subsidiary books to the ledger; the trial balance, meaning and purpose of the trial balance, errors affecting the trial balance, errors not affecting the trial balance; correction of errors and the uses of suspense accounts; etc. Also included are the final accounts of sole traders; adjustments for the provision of depreciation; provision for bad debts; accruals and pre-payments classification of expenditure between capital and revenue; bank reconciliation statement; and adjustment of cashbooks.

**MTH 111: BUSINESS MATHEMATICS (3 Credit Units)**
The course covers mathematics areas related to Business and Management such as: Mathematics & Symbolic Logic; Inductive and Deductive Systems; Simple and Compound Statements Truth Tables; Set Theory; Real and Complex Number Systems. Also, Binomial Theory & Equations; Matrix Algebra & Matrices; Numeric Analysis; Differences Formula (Equal and Unequal Intervals); Interpolation and Summation Techniques; Coordinate Geometry; Cartesian and Polar Coordinates; Area of Triangles & Quadrilaterals; The Circles, Parabola, Ellipse & Hyperbola; and Arithmetic and Geometric Progression.

**BFN 111: INTRODUCTIONS TO FINANCE (3 Credit Units)**
This course is a general introduction to the study of finance including: Nature, definition and types of risks; study of the firm in relation to its financial objectives; approaches to financial decisions-making; principles of financial planning and control; types and functions of financial intermediation money versus capital markets; types and operations of financial markets; features of financial instruments; operations of the Stock Exchange; sources and choices of finding; and capital and re-current budgeting.

**ECO 111: PRINCIPLES OF ECONOMICS I(3 Credit Units)**
This course is an introduction to Micro-economic Theory. Topics covered include: the definition of Economic Science: the basic concept of Scarcity & Demand; the meaning of Opportunity Cost and Utility Preference Scale: the theory of Price Determination: the theory of Consumer Behaviour: the theory of a firms Costs, Pricing and Output under Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly, etc.

**CSC 113: COMPUTER APPLICATIONS I (3 Credit Units)**
This is a general introduction to Computer Science course: it covers Computer Hardware history, evolution, classification, types and configurations. etc. Also included are topics on Computer Software history, generations, types, programming languages features, operating systems, etc. Other topics covered include the use of computers; categories of computer applications; introduction to word-processing; data communication (basic concepts and methods of computer networks, including internet and e-mailing); data processing (properties, types of processing, including batching etc); number representation (binary mathematics, number conversions etc); computer viruses, their cure and their protection, etc.

**GST 111: COMMUNICATION IN ENGLISH (2 Credit Units)**
The course teaches effective communication and writing skills in English; Language Skills; Writing Essay Answers; English Comprehension; Sentence Construction; Outlines and Paragraphs; Collection, Organizing & Logical Presentation of Facts; Punctuations; etc. Also, the course cover areas on general
consolidation of English Fundamentals including language skills and choosing topics for writing through planning, outlining, assembling and organizing facts, to ensure coherence, originality and accuracy.

GST 112: LOGIC, PHILOSOPHY & HUMAN EXISTENCE (2 Credit Units)
This is a brief survey of the main branches of Philosophy; Symbolic Logic; Special Symbols in Symbolic Logic-conjunction; Negation, Affirmation; Disjunction: Equivalence and Conditional Statements; Method of Deduction; Rules of Inference & Bio-conditional Qualification Theory; also. Pre-Socratic & Post-Socratic Philosophy; Existentialism, etc.

GST 113: NIGERIAN PEOPLES, & CULTURE (2 Credit Units)
This is a study of Nigerian history, culture and arts in pre-colonial times; and the Nigerians perception of his world and culture: also a study of areas of Nigeria and their characteristics; evolution of Nigeria as a political entity; indigene/settler phenomenon; concepts of trade, economic self-reliance and social justice; individual and national development; norms and social values; negative attitudes and conducts (cultism and related vices); and national re-orientation. Other topics include environmental issues; functional education; principles of good, bad, right, and wrong; moral implications of our choices; morality versus expediency: and moral obligations of citizens.

SECOND SEMESTER
BUS 121: INTRODUCTION TO BUSINESS 11 (3 Credit Units)
This is the second part of a 2 semester course on Introduction to Business. Topics covered include integrated outline to the functions of business, including: overview of marketing concepts; production management; personnel management; accounting principles; financial management; and survey of banking, insurance and related areas in business.
Prerequisite, BUS 111

ACC 121: INTRODUCTION TO FINANCIAL ACCOUNTING II (4 Credit Units)
This is a continuation of the 2 semester course on introductory Financial Accounting. Topics covered include: Review of ACC 111; Final Accounts of a Sole Proprietor; Presentations of Adjustments in T-Account Forms; Accounting Concepts and Conventions: Meaning of Depreciation. Also, Depreciation of Fixed Assets; Reasons for Making Provisions for Depreciation; Methods of Providing for Depreciation: Accounting Theory SAS 9: Multiple Methods of Calculating Depreciation Straight Line, Reducing Balance, Sum-of the-year’s Digit; Production Hour; Production Unit; Revaluation Method; Sinking Fund; Stocks Methods of Valuation; Accounting Theory SAS 4: Manufacturing Accounts: Incomplete Records and Single Entries.

MTH 122: BUSINESS MATHEMATICS 11 (3 Credit Units)
This course consists of the topics such as: Algebraic and Transcendental Functions; Expansion Of Algebraic Functions with Application to Business; Differential Calculus; Limits and Continuity; Derivation from First Principles; Total Differentiation; Application to Marginal Analysis; Cost Functions; Indifference Curves; Maximization and Minimization; Partial Differentiation with Application to Marginal Analysis and Comparative Statistics; Integral Calculus. Integration with Application to Marginal Total Equations; Permutations and Combinatorial; Simple Sequences and Series: Finite and Infinite series; and Convergent & Divergent Series.

ECO 121: PRINCIPLES OF ECONOMICS 11 (3 Credit Units)
This course complements ECO 111: Micro-economics I. as the Macro-economic component for the I-year preparatory studies in economics, business and the management courses. Topics covered include: Economic Theory; the Methodology of Economics Science; the Fundamental Economizing Problem; Principles of Resource Allocation; National Income Accounting; Elementary Models of Income and
Employment; Principles of Money Banking & Financial Markets: Public Finance & Government Budget; Introduction to international trade; Balance of Payments & Economic Development.

CSC 123: COMPUTER APPLICATIONS II (3 Credit Units)
The topics covered in this course include: Aims. Objectives & Structure of Computer Packages; Differences between New & Conventional Programming Languages; Capabilities and Limitation of Packages; Types/Class of Packages Wood Processor, Spreadsheet, Graphic Animation, 3D, Utilities and Database; Studies and Hands-on Use of Windows (Word, Excel, PowerPoint and Access). Practical Sessions: Students are expected to study and practice on at least 5 packages from the above to gain proficiency and mastery.

GST 121: USE OF LIBRARY, STUDY SKILLS & ICT (2 Credit Units)
The course traces a brief history of libraries including Library and the Educational System; the University Library System: Other forms of Libraries; Types of Library Materials; Understanding the library catalogue, (Card, OPAC, etc) and classifications; Using library resources, (including e-learning, e-materials, etc) and Database Resources. Other topics covered include Study Skills: Bibliographical citation and Referencing; Copyrights Laws and infringement. Also, the development of modern ICT; hardware and software technologies; word-processing skills, (i.e. typing), etc.

GST 122: COMMUNICATION IN ENGLISH 11(2 Credit Units)
This course is a continuation of GST 111: Communication in English It covers areas such as Logical Presentation of Papers; Phonetics: Instruction on lexis; Art of Public Speaking; Oral Communication: Figures of Speech; Précis; Report Writing; etc.

GST 123: COMMUNICATION IN FRENCH (2 Credit Units)
This course introduces students to French language as part of the ECOWAS region’s requirement for economic integration, using dual official languages. Topics covered in the course include French Alphabets and Numbers for basic communication: Conjunction and simple sentences construction in French; and Reading for Comprehension in basic French language.

200 LEVEL
FIRST SEMESTER
BUS 211: PRINCIPLES OF MANAGEMENT (3 Credit Units)
The course is a general introduction to the concept of principles, processes and significance of the managerial team in the context of changing socio-economic environment from the perspectives of developing countries; Other issues discussed in the course include, the global role of strategic planning and management; also the functions of planning, organizing, staffing, communication, coordination, motivation, direction and control in the modern business organizations.

BUS 212 BUSINESS STATISTICS 1 (3 Credit Units)
This is the first in a two-semester course on elementary statistics, applicable to the problems of business and management. The first semester focus is on descriptive statistics, topics covered include: the nature of statistics; basic concepts in statistics; statistical inquiries; forms and designs in statistical methods; statistics in scientific enquiries; data, population and samples; discrete and continuous variables; functional relationships; secondary & primary data; sources of data; methods of collecting primary data; etc. Also, the presentation f statistical data; frequency distributions; measures of central
tendencies; measures of dispersion in single and grouped data; skewness and Kurtosis; laws of probability; elementary probability distributions normal, binomial, Poisson and hyper-geometric distributions, etc.

**BUS 21.3: PRINCIPLES OF MARKETING 1 (3 Credit Units)**
The course introduces beginning students to the basic principles of marketing. It is designed to expose them to the rigours of marketing as an academic discipline and a business practice. As well, it treats the marketing concept as ‘activities concerned with the total delivery of customer satisfaction making marketing relevant to both business and non-business organizations. Other issues discussed in the course include, the marketing-mix; marketing as part of corporate survival and growth strategy; product planning and development; pricing, promotion and distribution of products and services; etc.

**ECO 211: MICRO-ECONOMIC THEORY (3 Credit Units)**
The course builds on students knowledge in ECO 111: Principles of Economics. Topics covered include: Micro-economic Models; Theories of Consumer Behaviour; Theories of Price; Utility & Preference Curves; Elasticity of Demand; Profit Maximization Rules; Law of Diminishing Return; Indifference Curve; Demand & Supply Curves; Pricing & Market Structures; Perfect Competition Monopoly, Monopolistic Competition and Oligopoly; Distribution under Perfect Competition; Employment under Perfect & Imperfect Competitions; Marginal Cost & Marginal Revenue Rules. 
**Pre-requisite, ECO 11**

**ACC 211: FINANCIAL ACCOUNTING I (3CreditUnits)**
This course expounds on the 2 introductory courses in accounting. ACC 111 & ACC 121. Topics covered include Further Treatment of Incomplete Records; Preparation and Presentation of Final Accounts in non-Commercial Organizations such a Associations, Trade Unions. Mosques, Churches, etc.: Reserves and Provisions; Treatment of Fixed & Current Assets Based on SAS 3; Introduction to Partnership Accounts including Final Accounts; Change in Partnership; Death/Retirement of Partners including treatment of goodwill; Partnership Case Laws; Dissolution of Partnership; Piecemeal Realization in Partnership; and Joint Venture Accounts.
**Pre-requisite ACC 111 & ACC 121.**

**ACC 213: COST ACCOUNTING (3 Credit Units)**
The course introduces students to the concepts and practices of Cost Accounting. The topics covered include History, Principles and Objectives of Cost Accounting; Cost Accounting Rules for materials, labour and overheads; Integrated and Uniform Cost Accounting; Contract Costing; Batch Costing; Process Costing treatment of joint products, by-products and spoilages; Evaluation of Process Stockusing FIFO, LIFO and Average Prices; Funds Flow Statement; Break-even and Cost Volume Profit Analysis.
**Pre-requisite ACC 111, ACC 121 & ACC 211**

**BFN 213: MATHEMATICS OF FINANCE (3 Credit Units)**
The course covers the mathematics of solving financial and accounting problems such as, computations of interest rates; interest- periods; calculation of compound interests; discounting notes and drafts; customer credit interest; charges on unpaid balances; past due accounts; trade discounts for quantity or cash; trade markup and markdowns; cost price and retail price; payroll and income; personal taxes: national provident fund; share/stock dividends: valuation of goodwill; shares/stock and bonds; etc.
**GST 211: HISTORY AND THE PHILOSOPHY OF SCIENCE (2 Credit Units)**
The course investigates the origin of life from evolutionary concept, vis-à-vis that of creation. Other topics covered include man and his cosmic environment: definition of science and its branches; methodologies and developments in science from ancient times to resent; inventors and inventions; science and technology in the society and in services to man; energy forms sources and implications; renewable and non-renewable resources: environmental effects of chemicals, plastics, textiles, wastes and other hazardous materials; chemical and radio-chemical hazards; introduction to the various areas of science and technology; and elements of environmental studies.

**SECOND SEMESTER**

**BUS 221: PRINCIPLES OF MANAGEMENT 11 (3 Credit Units)**
This course extends and deepens the knowledge gained in BUS 211: Principles of Management I. The emphasis in the course is on concepts and theories of management, including challenges in applying business management theories in the Nigerian environment. Topics discussed in the course include Management Theories such as Scientific Management; Human Relations Principles; Systems and Contingency Theories, etc. Other principles discussed include Douglas McGregor’s Theory X and Theory Y; the Managerial Grid; Participatory Models; Management by Objectives; Abraham Maslow’s Hierarchy of Needs; Quality of Work Life; Quantitative Models of Management Science; etc.
**Pre-requisite** BUS 211

**BUS 223: BUSINESS STATISTICS 11(3 Credit Units)**
This course continues from BUS 212: Business Statistics I. The topics covered include: Inferential Statistic drawing conclusions from sample data, and making decisions or predictions based on population parameters. Other topics covered include Sampling Theory; Statistical Estimation: Statistical Decision Theory; Hypothesis Testing; Chi-square Test; Goodness-of-fit Test; Contingency Table Analysis; Uses and Limitations of Chi-square Tests; Test of Significance; t- Distribution; Correlation Analysis; Simple and Multiple Regression Analysis; Analysis of Variance; Covariance: Index Numbers; and Time Series Analysis. Pre-requisite BUS 212.

**BUS225: PRINCIPLES OF MARKETING 11(3 Credit Units)**
The course builds on the knowledge acquired from BUS 213: Principles of Marketing I. It treats behavioural issues in marketing. Topics covered include Analysis of Micro and Macro Marketing Environment: Key Consumer Analysis; Theories of Consumer Behaviour: Industrial Markets; Marketing Research and Information Systems; Market Surveys; Demand Measurement; Measurement of Sales: Forecasting Demand; Global Marketing; Marketing in Services Industries. Marketing in Not-for-profit Organizations, Societal Criticisms of Marketing; and Careers in Marketing Management.
**Prerequisite** BUS 213

**ACC 221: FINANCIAL ACCOUNTING 11(3 Credit Units)**
The course consolidates OIl gains from prior accounting courses, including ACC 211: Financial Account I. Other topics covered include Bills of Exchange; Consignment Accounts, Containers Account. Goods on Sale; Goods on Returns, Royalties Account, Voyage Account, Insurance Claims Accounts, Sinking Fund Accounts; Investment Accounts, Contract Accounts including treatment of SAS 5; etc.
**Prerequisite** ACC 211.

**ECO 221: MACRO ECONOMIC THEORY (3 Credit Units)**
The course builds on the previous knowledge of ECO 121. It is primarily concerned with the study of the relationships between broader socio-economic challenges and the larger political and national issues. Topics discussed in the course include The Circular Flow Model; Pure Capitalism; Mixed Economy; The Welfare State; Socialism & Communism; Classical Vs. Keynesian Economics;
National Income Accounting; The Consumption Function Approach; Savings and Investment Equations; Relationship between Expenditure and Employment; Money Supply; Inflation & Price Levels; and Balance of Payment, Statistics.

SAA 222: ELEMENTS OF PSYCHOLOGY (3 Credit Units)
This beginner’s course introduces students to the discipline of psychology. Its primary aim is to acquaint students with the knowledge of interplay between the individual and his environment. Topics covered include Human Behaviour; The Biological Basis of Behaviour; The Socialization Process; Personality Theories; Perception; Peer Group Pressure; Learning Theories; Human Memory; Motivational Theories; Nature Vs. Nurture Argument; Attitude & Beliefs; Abnormal Behaviour; Social Influence; and Collective Behaviour.

BUS 224: BUSINESS COMMUNICATION (3 Credit Units)
This course imparts knowledge to students on the fundamentals of business communications including Principles of Communications; Functions of Communications; Communication Theories i.e. Linear Model, Interactional Model. Transactional Models etc. Other topics include--Corporate and Public Communications; Written Communications i.e. Letters, Memos, Circulars, etc. Also, Modern & Electronic Communications i.e. e-mails, Texts, intranet, teleconference, etc.

GST 221 PEACE STUDIES & CONFLICT RESOLUTIONS (2 Credit Units)
The course enjoins Nigerian students to be ambassadors of peace and citizens of conflict resolutions. Also, the use of peace as a vehicle for unity and development. Other topics discussed include Conflict Issues; Types of Conflicts, e.g ethnic, religious, political and economic conflicts. Others are Root Causes of Conflicts and Violence in Africa; Indigene/Settler Phenomenon; Peace Building; Management of Conflict & Security; Elements of Peace Studies & Conflict Resolution; Developing a Culture of Peace Mediation; Peace Keeping Alternative; Dispute Resolution, etc.

EPS 221 ENTREPRENEURSHIP STUDIES (2 Credit Units)
The NUC benchmark on Entrepreneurship Studies approves the adoption of the contents below for EPS 221 as follows the concept of organizations and theories of Entrepreneurship; The Entrepreneurship culture; Biographical studies of Entrepreneurs; Barriers to Entrepreneurial practice; The business external environment political, legal, social, cultural, financial, natural and technological; Identifying Business opportunities and threats; Strategies for exploiting opportunities in the environment; Approaches to addressing environmental barriers; Intellectual property and its dimensions; Copyright laws in Nigeria; Strategies for protection of intellectual property, (original ideas, concepts, products etc.); The interface between technology development, and Entrepreneurship; Technological Development and Entrepreneurial opportunities; Technological environment and business: New technology and Entrepreneurship opportunities; The concept, nature and types of innovation; Theories of innovation; Financing innovation and new ventures; Change management; Technical change and management of Innovation. Others are, the Concept of family business; The cultural contexts of family business; Roles and relationship in family business; Ownership transfer and succession in family business; The concept of women Entrepreneurship; Role orientation women Entrepreneurial aspirations; Contributions of women to national socio-economic and human development; Barriers to women Entrepreneurial practice; The concept of social Entrepreneurship; Social Entrepreneurship and value creation; The roles of non-governmental organizations in social Entrepreneurship; Social Entrepreneurship and funding opportunities; Social Entrepreneurship enhancement factors; Sources of business opportunities in Nigeria; The difference between ideas and opportunities; Scanning business opportunities in Nigeria; Environment and new venture Idea generation.
FIRST SEMESTER

BUS 311: MANAGEMENT OF HUMAN RESOURCES (3 Credit Units)
The course is an introduction to the Theory and Practice of Personnel Management also, industrial relations with particular reference to the evolution of industrial relations in Nigeria. The course contents include the Concept of Human Resources Management; the Role of Personnel Management: the Evolution of Personnel Management; Functions of Personnel Management; Manpower Planning: Job Analysis & Job Description; Manpower Forecasting; Manpower Inventory; Recruitment and Selection; Employee Performance Appraisal; Compensation Plans & Incentives; Career Planning: Management Development and Training; Employee Records Maintenance; etc.

BUS 312: PRODUCTION MANAGEMENT (3 Credit Units)
The topics covered in the course include Elements of Production; Production and Process Design; Management of Facility; Location & Layout; Modern Tools & Machinery for Production; Standard Definitions: Line Balancing; Automation; Production Planning: Scheduling & Control; Technical Feasibility Assessments. Other topics covered are Work Study; Maintenance of Tools & Equipment; Cost/Benefit Analysis; Quality Control; Inventory Control; Project Planning; Forecasting: also Aggregate Planning Control and Material Resource Planning, etc.

BUS 314: MANAGEMENT THEORY (3 Credit Units)
The course apprises the theories of management vis-à-vis the methodologies of the physical and social sciences. It also explores important features of management principles including links between management theories and management practice. As well, the history of management science is surveyed including the scientific management movement; contemporary management theories; the practice of management; conduct as a test of good management theory; challenges in developing Nigerian model of management; counter-productive management practices in developing countries; and global best practices in management.

MGT 312: SMALL AND MEDIUM ENTERPRISES MANAGEMENT (3 Credit Units)
The focus of this course is on enabling talented students to establish sustainable micro, small or medium sized enterprise(s) of their own more especially in the context of Nigeria’s present social and economic predicaments. Topics covered in the course include What Self-employment Means; What Small and Medium Sized Enterprises (SME) Means: The Concept of Job Creation: Owning or Managing a Business: Forms of Business Ownership; Accounting for Small Business Firms., Enhancing Small Businesses with ICT; Small Business Partnerships; Registering Business; Opportunities & Challenges in Small Enterprise Management; Financing SMEs; Role of Government in the Growth of SMEs; the Micro-Credit Scheme: Preparing a Feasibility Study; Preparing a Business Plan; Venture Capital & Venture Management; business Expansion and Diversification; Exploring Export Opportunities; etc.

MKT 312: SALES MANAGEMENT (3 Credit Units)
The course examines an organizations’ Sales Force management in relation to its overall marketing-mix. It also examines topics on the Selling Process. Qualities of Salesmanship: Types of Sales; the Selling Job; the Selling Environment; Managing the Sales Territory; Sales Organization; Attributes, Duties and Responsibilities of the Sales Manager; Compensation Plan for the Sales Force; Trends & Developments in Sales Management; Sales Analysis; Market Share: Sales Quotas, etc.
Prerequisites BUS 213, BUS 223

ACC 314: MANAGEMENT ACCOUNTING 1(3 Credit Units)
This course consolidates student’s knowledge in the area of Accounting Methods & Theories. Topics covered include The Nature and Function of Management Accounting; The Dual Purpose of Planning & Control; Decision Making for Costs; Marginal Costing & Contribution Analysis; Break-even
Analysis; Charges, Costs & Prices of Break-even Point; Margin of Safety; Sales-mix & CPV Charts; The Concept of Opportunity Cost; The Learning Curve; Budgeting & Budgetary Control; Application of Qualitative Techniques; Statistical Techniques--i.e. The Least Square Method; Standard Deviation; Correlation; Regression Analysis: Standard Costing; Variances including profit, contribution mix and yield; Interpretation of Variances for Management Decision: Planning and Operational Variances, etc. 

Pre-requisite: ACC III, 121,211,212&221.

BFN 313: FINANCIAL MANAGEMENT I (3 Credit Units)
This blends earlier courses on financial account to the framework of financial management. Topics covered include Meaning and Goals of Finance; Capital Budgeting Under Certainty Uncertainty; Cash Flow Forecasting; Techniques for Project Evaluation; Cost of Capital; Financial Leverage; Capital Structure Theories; Dividend Policy & Internal Financing; Portfolio Theory; Management & Efficient Market Hypothesis; Securities Valuation; Risk Analysis & Measurement; Risk & Diversification; Capital Asset Price Model; Foreign Currency Transactions; Analysis, Interpretation, Financial Statements & Reports; Financial & Business Failures, etc.

LAW 313: BUSINESS LAW (3 Credit Units)
The course introduces business students to the Nigerian legal system. Other topics covered are Sources of Nigerian Law; Division of Powers between the Federal, State & Local Governments; Statutory Laws (legislation and interpretations, history and development of common law, equity law, etc); Hierarchy of the Nigerian Court Systems; Distribution between Civil & Criminal Liabilities; The Law of Torts; Concept of the Legal Person; The Corporate Personality; The Doctrine of Ultra vires in Contract; Law of Commercial Agency; Sales of Goods, Carriage of Goods, Negotiable Instruments, Hire Purchase; Installment Purchase; Suretyship & Guarantees; Pledges, Lease & Exchange Control.

EPS 311 ENTREPRENEURSHIP SKILLS (2 Credit Units)
The course is a hands-on module in Entrepreneurship Studies required of all students. The programme is a university-wide scheme, adapted to the needs of each College. Students in the Department of Business Administration have a broad menu of micro-businesses to choose from. The choices include Owning or managing a detergent/toothbrush/or toothpaste plant; Owning or managing a water treatment/food packaging/or farm land: Owning or managing a vegetable-oil/ or animal-husbandry farm; Owning or managing a fashion-design or computer-repair shop; Owning or managing a computer-software or wood-work factory: Owning or managing a dyeing/tailoring/furniture or bakery plant: and Owning or managing a confectionary firm, etc. The programme is facilitated by knowledgeable and experienced personnel in the industry. Students will also visit, for their practical trainings, firms, plants and workshops in their respective disciplines. The facilitators will as well brief visitation teams, using classroom demonstrations and exhibitions featuring DVDs, CDs, etc. Facilitators will also be drawn from academic and non-academic staff in the university. Expert hands from the local chamber of commerce, including resource persons from and outside the school if required, in such fields as welding, construction, farming, fishery, animal husbandry, etc.

LEVEL 300
SECOND SEMESTER
BUS 321 ORGANIZATIONAL BEHAVIOUR (3 Credit Units)
The Organizational Behaviour course is an amalgam of principles and concepts derived from the social and management sciences. It discusses important topics on Individual and Group behaviours within the organizational setting. Other topics surveyed in the course include Human Behaviour in Organization; Superior & Subordinate Relationship; Group Behaviour; Group Pressure; Group Dynamics; Productivity & Incentive; Productivity & Work Environment; Productivity & Performance; Informal Structures; Formal & Informal Interaction; Norms in the Work Place: Power, Conflict, Cooperation & Competition; and Leadership Styles.
Also discussed are Theories of Motivation; Reward & Punishment Models; Tasks Distribution; Employee. Satisfaction; Absenteeism & Employee Turnover; Job performance; Job Re-Design; Change Management; Regulations, Policies & Procedures; Comparative Management; The Nigerian Factor Vs. Effective Management; Behaviour Modification Theories; and Performance & Appraisal Systems.

BUS 324: BUSINESS RESEARCH METHODS (3 Credit Units)
The course examines ideas and principles such as the Meaning of Research; Methodologies of Research; Research as a Scientific Endeavor; Concepts of Scientific Inquiry; Importance of Research in Expanding Knowledge; Business Research Methods; Types of Research; etc. Other areas are Choosing - a Research Topic; Formulating the Research: the Research Proposal; the Dependent & independent Variable; Measurement & Statistics; Hypothesis Testing; Models & Propositions; the Problem Statement; the Research Question(s); Literature Review; Model Building; Conceptual Framework; Measurement & Scaling; Reliability & Validity: Defining the Research Population; Sampling Technique(s); Data Collection; Types of Data; Primary Data; Questionnaire Design & Administration; Secondary Data; Pre-gathered Data editing; Research Design; Coding Data; Presentation of Tables, Charts & Graph; Data Analysis & Interpretation; Writing the Research Report; Problems of Conducting Business Research in Nigeria.

BUS 325: MARKETING MANAGEMENT (3 Credit Units)
This course examines marketing tasks as performed by Corporate Executives responsible for the Marketing function. The focus is on key tasks in marketing of firms products or services. It also emphasizes the strategic promotion and growth of the firm’s customers. Related topics discussed in the course also include Creating Customer Loyalty; Creating Value-Chain; Creating Customer Advocacy; Delivering Superior Services and Relationship Marketing.

LAW 323: COMPANY LAW (3 Credit Units)
The course examines companies under the concepts of legal personality. Also the following areas are looked at Companies Acts of 1968; Companies and Allied Matters Decree No. 1 of 1990, as Amended; Corporate Responsibilities; Procedures and Documentation; Transfer of Shares; Legal Treatment of Stocks & Debentures; Board Membership; Meetings and Board Resolutions; Duties of Directors, Principal Officers, Company Secretaries and Auditors: Prospectus and Statutory Books; Profits for Distribution: Holding and Subsidiary Companies; Powers and Duties of Liquidators: Secretarial Practices: Disclosure Laws in Corporate Accounts; Reconstructions. Amalgamations and Takeovers.

POL 322: ELEMENTS OF GOVERNMENT (3 Credit Units)
The course looks at the Nature of Politics and Social Organizations; Also the Concept of the State; Law Issues, Constitution and Constitutionalism; Political Ideologies: Classical Heritage Plato. Aristotle: Thomas Hobbes; J. S. Mill; Pax Romanica; Stalinism; The Social Contract Theory; Towards the Mass Man; the Organs of Government )National Governmental Institutions): Public Administration. Political Parties and Pressure Groups, Public Opinion and Propaganda; Elections. International Order.

BUS 327: QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS (3 Credit Units)
The course introduces students to the tools of management science including methodology and application in analyzing varieties of business problems. The course content focuses on mathematical programming such as linear programming and its applications to problems in Business Management, such as product mix problems. transportation problems, trans-shipment problems, and assignment problems: network models, including PERT-CPM techniques and their applications in project management; dynamic programming; game theory for two-persons, zero-sum games and their applications in management decisions: decision theory; queuing theory; inventory models; markov
theory: decision processes and their applications; decision support systems; applications of computer software and packages to solve business problems, including use of the Internet in QA problem-solving; etc.

LEVEL 400
FIRST SEMESTER

BUS 411: STRATEGIC MANAGEMENT & BUSINESS POLICY (3 Credit Units)
This is the first phase of a 2-semester course on Strategic Management & Business Policy. It is designed for final year students in business, accounting and finance. It also consolidates what is learnt in the various courses taught at the undergraduate level. Thus the course uses the knowledge acquired by students during their training, and the skills they have gathered in solving case-studies and field problems, to address simulated organizational problems. As well, the course develops students capacities to foresee processes, identify, analyze and project entrepreneurial problems before they arise. In its focus, the first segment of the course focuses on strategic management including the sequence of decisions that build stronger and longer-term competitive positions, through formulating, implementing and evaluating strategic plans and policies.

BUS 412: INTERNATIONAL ECONOMICS (3 Credit Units)
The course introduces the theory of International Economics and International Finance. It incorporates the treatment of various theories of International Trade; Classical Theories of International Trade, (David Ricardo, David Hume); The Theory - of Comparative Advantage; Heikscher-Ohlin Theory; Leontief Model; International Currency Exchange The Gold Standard, Fluctuating Rate. SDR, International Trading Blocks: Tariffs & Local Trade; Trade Protectionism; Economic Integration; Balance of Payment. Capital Flows; Contemporary International Relations; International Financial Institutions the World Bank, International Monetary Fund, etc.

BUS 413: CORPORATE PLANNING (3 Credit Units)
The course studies how top management conceives, develops and implement long range corporate plans, Corporate Planning is the game plan for focusing on major decisions the firm must make to survive profitably and achieve its desired goals. Also the course emphasizes strategy formulation, strategy implementation and strategy evaluation that summarize the critical strategic management activities, enabling the company to achieve its desired objectives.

BUS 414 INDUSTRIAL PSYCHOLOGY (3 Credit Units)
The focus of this course is on the applications of theories in psychology to industry and interpersonal relations in the workplace. The course contents include: Introduction to social psychology; Introduction to Industrial psychology; Relationship between social and industrial psychology; the Chicago Hawthorne study; humanity & personality: conformity and individual differences; perception & perceptual error; productivity and motivational models; group and team work; soft & persons skills; group decision making; group integration and effectiveness; personality job-fit theories; psychology and the socio-technical system, psychological tests and measurement; applications of psychological tests and measurement in job analysis; personnel selection; and training and development.

MGT 412: LABOUR AND INDUSTRIAL RELATIONS (3 Credit Units)
The aim of the course is to familiarize students with the Nigerian labour laws; labour movements; history and development of employers associations and trade unions in Nigeria; structure and management of employees associations and unions; operational concept in industrial and human resources management; impact of government on related managerial decisions: comparative industrial and labour markets; etc.
MKT 411: MARKETING RESEARCH AND INFORMATION SYSTEMS (3 Credit Units)
The course is designed to train students in applying principles and procedures of scientific research to the understanding and analysis of marketing issues. Topics treated in the course include determining information needed in marketing research; determining the value of marketing information vis-à-vis its cost; the Bayesian analysis approach designing a market research project; basic experimental designs in marketing; defining the research problem; determining the research design; sampling procedures; questionnaire design and administration; field data collection; the research report; types of research product research; market research; communication research; attitude research; test marketing; measuring advertising effectiveness; validity and reliability of research, etc.

SECOND SEMESTER
BUS 421: STRATEGIC MANAGEMENT AND BUSINESS POLICY II (3 Credit Units)
This is the second phase of the 2-semester course on Strategic Management and Business Policy. It focuses on developing an organization’s business policy as the top management’s prerogative. The concepts of policy and decision making are examined from the top management’s perspective. While the top management’s standards are treated as corporate plans, strategies, and policies that are cascaded to lower levels of the organization. The concluding part viewed the various problems associated with conflicts and resources control, amongst the top management, as inevitable corporate exercise. Finally, conflicting interests amongst managements of personnel, marketing and production are examined.
Pre-requisite BUS 411

BUS 422: INTERNATIONAL BUSINESS (3 Credit Units)
The course surveys concepts in International Business such as classical theory of trade; mercantilism and nationalism; theory of comparative advantage; free trade; theory of absolute advantage; modern trade theory; factor proportions and factor intensity; terms of trade; measures and effects of tariffs; international finance; balance of payment; exchange rate regimes—gold, fixed, floating; foreign exchange market: growth of multinationals; social, political, economic, financial and legal issues concerning multinationals; calculation of country risk factors; environmental forces affecting multinationals; international organizations influencing international trade and international business WTO, UNCTAD, IMF/WORLD BANK, ECOWAS, and so on.

BUS 429: RESEARCH PROJECT (6 Credit Units)
This is a two-semester course that students take in partial fulfillment for the award of B. Sc. degree. The course provides students with empirical knowledge, practical experience and hands-on training in designing and executing original study, under the care of a supervisor. The topic for the research must come from students’ discipline. Also, students are to submit 3 tentative research topics to their supervisor, from which the supervisor approves in as the Research Topic. The student shall proceed with writing the project under close scrutiny, based on the knowledge acquired over the years especially course BUS 324. Finally, the students will submit hardcover-bound copies of the project to their supervisor, for presentation to the Department, as well as defend the project before a panel of internal examiners, or -both internal and external examiners, to earn a grade.

BUS 424: MANAGEMENT INFORMATION SYSTEM (3 Credit Units)
The course acquaints students with the knowledge of operating an effective information and communication system. Other highlights covered in the course include meaning, objective and requirement of MIS in organizations; information needs of management and design of MIS; management information needs; information output as a basis for criteria and systems development; computer environment and use of computer based techniques: electronic data processing (EDP) methods: batch processing; generating reports: error in reports; exceptions report: report format; form design: flow charting; networking; design techniques and documentation: user environment systems

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development and life cycle; computer service bureau and cyber services; office automation; e-mail.
internet and intranet, etc.

**MKT 422: MANAGEMENT OF DISTRIBUTION CHANNELS (3 Credit Units)**
The course enables students’ appreciate the use and operation of the marketing channel, as an integral part of the marketing system. Marketing or distribution channels are display, sell and delivery points of the organization. The channels are intermediaries between the firm and its consumers. Also, the course highlights the functions of distribution channels within the wider marketing system; the relationships among participants in the channels; types of distribution channels; membership of the distribution channel; structures of distribution channels; designs of distribution channels; physical distribution and logistics management; etc.

**MGT 421: COLLECTIVE BARGAINING (3 Credit Units)**
The course examines the conduct and practice of collective bargaining in light of peace oriented union-management relations. It also focuses on the analysis and description of legal, civil and harmonious working relationship between labour, management and policy makers, nationwide.

**MGT 423: MATERIALS MANAGEMENT (3 Credit Units)**
The course introduces students to the process and procedure of purchasing manufacturing materials by organization. The topics to be covered include organization of the purchasing department; purchased materials management; ‘purchase procedures and records; purchase price; materials control; ABC analysis; Analysis of stock levels; re-order quantity; store organization; centralized stores, imprest stores; and decentralized stores; stores location and layout; classification and coding of materials; etc.
FOREWORD BY THE DEAN

This new prospectus for undergraduate programmes sets out in detail information on the structure of the College of Engineering and includes extracts from the University Regulations governing First Degree programmes.

The prospectus also contains information on the history, aims and objectives, course description in respect of the College and the Departments of Civil, Chemical, Petroleum, Electrical/Electronics, Computer and Mechanical Engineering and other relevant matters.

From 2002/2003 Session, the College had been offering degree programmes in four major disciplines, namely:

- Chemical and Petroleum Engineering
- Civil Engineering
- Electrical/Electronics and Computer Engineering
- Mechanical Engineering

All the programmes are fully accredited by both NUC and COREN.

The new prospectus which has been reviewed according to NUC Benchmark Minimum Academic Standards (BMAS) shall be of great value to students and staff of the College and other persons who may wish to obtain information on the academic programmes in all the six departments in the College of Engineering.

Prof. P. B. Osofisan, FNSE
Dean Gen. A. A. College of Engineering
<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATIONS</th>
<th>RANK/STATUS</th>
</tr>
</thead>
</table>
| 1   | Engr. Prof. E. O. Aluyor    | 1. Ph.D. (Chemical Engineering)  
2. M.Eng  
3. B.Eng (Chemical Engineering)  
4. NSE, Corporate Member; COREN (R.1094) | Professor/Adjunct |
| 2   | Engr. Prof. A. I. Igbafe    | 1. Ph.D(Chemical Engineering).  
2. M.Eng.(Chemical Engineering)  
3. B.Eng.(Chemical Engineering)  
4. COREN (R.11652)M.NSChE MNI Prod, MAIChE | Professor/Adjunct |
| 3   | Engr. Prof. E.S. Adewole    | 1. Ph. D(Pet Eng)  
2. M.Sc. (Pet Eng)  
3. B.Eng, 1989(Pet Eng)  
4. MSPE, COREN R.17342 | Professor/Adjunct |
| 4   | Prof. F.A. Aisien           | 1. Ph. D(Chemical Engineering).  
2. M.Eng.(Chemical Engineering)  
3. B.Eng.(Chemical Engineering) | Professor/Adjunct |
| 5   | Engr. S.E. Uwadiae          | 1. M.Eng.(Chemical Engineering)  
2. B.Eng.(Chemical Engineering) | Lecturer II/Full-Time |
| 6   | Mr. Ngubi, Fredericks W     | 1. M.Eng.(Chemical Engineering)  
2. B.Eng.(Chemical Engineering) | Lecturer II/Full-Time |
| 7   | Mr. Odisu, Teddy            | 1. M.Eng.(Chemical Engineering)  
2. B.Eng.(Chemical Engineering) | Lecturer II/Full-Time |
| 8   | Mr. Azike, Rowland U        | 1. M.Eng.(Chemical Engineering)  
2. B.Eng.(Chemical Engineering) | Lecturer II/Full-Time |
| 9   | Mr. Yerima, Yakubu          | 1. M.Eng.(Chemical Engineering)  
2. B.Eng.(Chemical Engineering) | Lecturer II/Full-Time |
| 10  | Mr. OgbodoIfechukwu         | B.Eng (FUTO), M.Sc. (UK) | Lecturer II/Full-Time |
| 11  | Mr. Azubuike Augustine      | B.Eng, M.Eng. (FUTO) | Lecturer II/Full-Time |
| 12  | Mr. Mac-chuks Chukwuma      | B.Sc., M.Sc. (UNIBEN) | Lecturer II/Adjunct |
| 13  | Mr. NwokoloNdubuisi         | B.Eng, M.Eng (FUTO) | Lecturer II/Full-Time |
| 14  | Mr. Kumuyi, Sunday          | B.Eng ; M.Sc.(,UK) | Lecturer II/Full-Time |
| 15  | Mr. Oko Francis N.          | B.Eng (FUTO), M.Sc. (FRANCE) | Lecturer II/Full-Time |
| 16  | Mrs. Obeta, Perpetual O     | B.Eng (Petroleum Engineering) | Graduate Assistant |
| 17  | Mrs. Osakue, Yvonne Izoduwa | B.Eng (Petroleum Engineering) | Graduate Assistant |
TECHNICAL STAFF LIST:

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name</th>
<th>Rank/Designation</th>
<th>Qualification Obtained Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mr. Omofuma, Fabian</td>
<td>Technologist II</td>
<td>HND(Auchi) OND (Auchi)</td>
</tr>
<tr>
<td>2</td>
<td>Mr. Emonshe, Simon Eneji</td>
<td>Senior Assistant Technologist</td>
<td>IMT (Usen)</td>
</tr>
</tbody>
</table>

DEPARTMENTAL VISION
The vision of the Department is to be the best Chemical/Petroleum Engineering Department in any Nigerian University with national and international acclaim; a Department where the advancement of Engineering and technology is continuously dynamic, environment-friendly engineers, required in the public and private sectors of the economy are midwifed for the rapid industrialization and development of Nigeria.

DEPARTMENTAL MISSION
The departmental mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the department will provide:
- State-of-the-art technological and engineering training that prepares the graduates for responsibilities of the workplace.
- To produce qualified and competent chemical/Petroleum Engineers in such areas of specialization as – environmental engineering, well logging, well drilling, reaction engineering and separation processes.
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships

Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.

OBJECTIVES:

(f) To provide a highly motivated academic environment that fosters the academically minded to pursue further studies and research in Chemical/Petroleum Engineering

(g) To develop manpower for the country.

(h) To contribute to the supply of academic and professional advise both for Nigerian Universities and the Nigerian Industries.

CONTINUOUS ASSESSMENT
To ensure a proper follow-up of students, assignments are given regularly to students, seminar presentations on each course are made by students; also tests are given at least twice in a semester before the final examinations. These continuous assessment tests/assignments and seminars contribute a total of 30 marks to the final grading at the end of the semester.

ADMISSION REQUIREMENTS

(i) Direct Entry Requirement:
Two A’ level passes in Physics and mathematics and an additional subsidiary subject. Candidates are expected to possess five credits including English Language, Mathematics, physics, chemistry and any other relevant science subject at O’level and A’level must be obtained at not more than two sittings; or
A National Diploma certificate from approved universities or colleges of technologies or Polytechnics with a grade not lower than Merit. In addition, the applicant must possess five credit at WAEC/NECO/NABTEB/SSCE/GCE O’ level or its equivalent in subjects which include English Language, Mathematics, Physics, chemistry and any other relevant science subject.

(iii) Any other relevant credential approved by the Senate of the University.

UME

Five O’ level credits including English Language, Mathematics, Physics, chemistry and any other relevant science subjects.

(a) Programme/Sub-discipline/Discipline Structure to include period of formal studies in the Universities. Industrial training, planned visit and projects.

B.Eng. (Chemical/Petroleum Engineering) - 5 years.
By Direct Entry-
OND 4 years
HND 3 years.

Graduation Requirement

For a student to qualify for graduation from any of the programmes, such a student must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements, and all General studies courses of the University. Such a student must have also met the minimum number of years and not exceeded the maximum number of years required for graduation. See Table 1

<table>
<thead>
<tr>
<th>Level of entry</th>
<th>Minimum number of years to graduate</th>
<th>Maximum number of years to graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>200 level</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>300 level</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

The class of the Bachelor of Engineering Degree is determined by the final cumulative grade point average earned by the graduating student.

Cumulative Grade Point Average (CGPA)

The CGPA for each level of course is calculated from a combination of the grade GP assigned to percentage scored obtained in the examination and the credit assigned to that course. The relationship is aptly displayed in Table 2

<table>
<thead>
<tr>
<th>Courses attempted (a)</th>
<th>Credits attempted (b)</th>
<th>% Scores (c)</th>
<th>Letter grades (d)</th>
<th>Grade point (e)</th>
<th>Grade point credit weighed (f) = b x (e)</th>
<th>Cumulative grade point average (GPA) (g)= ( \sum(f) / \sum(b) )</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 211</td>
<td>3</td>
<td>70 – 100%</td>
<td>A</td>
<td>5</td>
<td>3x 5 = 15</td>
<td>46 = 2.42</td>
</tr>
<tr>
<td>CHE 221</td>
<td>3</td>
<td>60 – 69%</td>
<td>B</td>
<td>4</td>
<td>3 x 4 = 12</td>
<td></td>
</tr>
<tr>
<td>MEE 231</td>
<td>4</td>
<td>50 – 59%</td>
<td>C</td>
<td>3</td>
<td>4 x 3 = 12</td>
<td></td>
</tr>
<tr>
<td>CHE 241</td>
<td>2</td>
<td>45 – 49%</td>
<td>D</td>
<td>2</td>
<td>2 x 2 = 4</td>
<td></td>
</tr>
<tr>
<td>CHE 251</td>
<td>3</td>
<td>40 – 44%</td>
<td>E</td>
<td>1</td>
<td>3 x 1 = 3</td>
<td>19</td>
</tr>
</tbody>
</table>
Thus the student who attempted the 200 level courses shown in Table 2, sat for a total of 19 credits, and ended up with a GPA of 2.42 for that level. This mode of computation is done for each level per student. The cumulative grade points average, CGPA on which the classification of a graduating student is based, is the sum of the weighted grade point for all courses taken in the course of the study divided by the total credit load taken by the student throughout the study.

The CGPA computation is as shown in Table 3.

<table>
<thead>
<tr>
<th>Mat No. (a)</th>
<th>Name of Student (b)</th>
<th>Level (c)</th>
<th>Courses attempted (a)</th>
<th>Credits attempted (d)</th>
<th>Grade point (e)</th>
<th>Weighted Grade Point [(d) x (e)] (f)</th>
<th>CGPA = ( \frac{\sum (f)}{\sum (d)} ) (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG9900020</td>
<td>Mr. XYZ</td>
<td>100</td>
<td>PHY 121</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CHE 111</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MTH 122</td>
<td>3</td>
<td>3</td>
<td>9</td>
<td>2.68</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200</td>
<td>MEE 211</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 222</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 232</td>
<td>3</td>
<td>4</td>
<td>12</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>300</td>
<td>MEE 311</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 321</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 232</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>MEE 411</td>
<td>3</td>
<td>4</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 421</td>
<td>3</td>
<td>3</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 431</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
<td>MEE 511</td>
<td>3</td>
<td>3</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 521</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>MEE 532</td>
<td>3</td>
<td>4</td>
<td>12</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td></td>
<td>37</td>
<td>99</td>
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<td></td>
</tr>
</tbody>
</table>

The degree classification, according to the CGPA recommended by the NUC is presented in Table 4:

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First Class</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>2nd Class Upper Division</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>2nd Class Lower Division</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>3rd Class Lower Division</td>
</tr>
<tr>
<td>1.00 – 1.49</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Thus, the candidate, Mr. XYZ who finished up with a CGPA of 2.68 has earned a 2nd Class Lower Degree.

**COURSE STRUCTURES/DESCRIPTIONS**

**100 LEVEL COURSE STRUCTURE:**

```markdown
| CE 261 | 4 | 0 – 39% | F | 0 | 4 x 0 = 0 | Total | 19 | Total | 46 |
```

225
<table>
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<tr>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>SPREAD</th>
<th>CREDIT UNIT</th>
</tr>
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<tbody>
<tr>
<td>FIRST</td>
<td>CHM111</td>
<td>General Chemistry I</td>
<td>2 L 1 T</td>
<td>3</td>
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<tr>
<td></td>
<td>CHM112</td>
<td>Organic Chemistry I</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MTH111</td>
<td>Algebra &amp; Trigonometry</td>
<td>2 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH112</td>
<td>Calculus/Real Analyses</td>
<td>2 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHY111</td>
<td>General Physics I (Mechanical and properties of matter)</td>
<td>2 1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHY112</td>
<td>General Physics II (Fluid Dynamics/Elasticity)</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHY113</td>
<td>General Physics III (Thermal Physics)</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GST111</td>
<td>Communication in English I</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GST112</td>
<td>Logic, Philosophy and Human Existence</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GST113</td>
<td>Nigerian Peoples and Culture</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOTAL CREDITS</strong></td>
<td></td>
<td><strong>23</strong></td>
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<td>SECOND</td>
<td>CHM121</td>
<td>General Chemistry II</td>
<td>2 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHM122</td>
<td>General Chemistry</td>
<td>- -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CHM123</td>
<td>Organic Chemistry II</td>
<td>2 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH121</td>
<td>Vectors, Geometry/Statistics</td>
<td>2 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH122</td>
<td>Differential Equations &amp; Dynamics</td>
<td>2 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHY100</td>
<td>Practical Physics</td>
<td>- -</td>
<td>6 1</td>
</tr>
<tr>
<td></td>
<td>PHY121</td>
<td>Electromagnetism &amp; Modern Physics</td>
<td>3 1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHY122</td>
<td>Modern Physics I</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHY123</td>
<td>Waves, Vibration &amp; Optics</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GST121</td>
<td>Use of library, study skills and ICT</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GST122</td>
<td>Communication in English II</td>
<td>2 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>GST123</td>
<td>Communication in French</td>
<td>1 -</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>IUITS102</td>
<td>Igbinedion University Industrial Training Scheme</td>
<td>- -</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>28</strong></td>
</tr>
</tbody>
</table>

**100 LEVEL FIRST SEMESTER COURSE DESCRIPTION**

CHM111 – General Chemistry I            3 Credits

The states of matter:
(i) Gases: Gas Law. The general gas equation.

CHM112: Organic Chemistry I 3 Credits
(a) General Principles of Organic Chemistry:
(ii) General procedure for isolation of purification of organic compounds.
(iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
(iv) Isomerism. Structural isomerism and stereo isomerism.

(b) Non-Polar Functional Group Chemistry:
(i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
(ii) Alkenes – Structure and physical properties. Reaction: addition (of \( \text{H}_2 \), \( \text{X}_2 \), \( \text{HX} \), \( \text{H}_2\text{O} \), \( \text{O}_3 \) etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
(iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of \( \text{H}_3 \), \( \text{X}_2 \), \( \text{HX} \), \( \text{H}_2\text{O} \), \( \text{O} \) etc. Test for Alkynes.
(iv) Benzene: Structure and aromaticity of benzene. Introduction to electrophillic.
(v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
(vi) Coal tar chemistry, origin, production, important components and uses.

(c) Practical Organic Chemistry:
Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

MTH111 – Algebra And Trigonometry 3 Credits

Sets and Subsets, union, intersection, complements, properties of some binary operations of sets; distributive, closure, associative, cumulative laws with examples, relations in a set; equivalence relation. Properties of set functions and inverse set functions, permutations and combinations.
Binomial theorem for integer n – o index: Circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulae. Complex numbers; algebra of complex numbers, the Argand diagram, De Moivre’s theorem, n-throat of unity.

**MTH112: Calculus/Real Analyses** 3 Credits

**PHY111: General Physics I (Mechanical and Properties of Matter) 3 Credits**
**Mechanics:** Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton’s law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton’s law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion. Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

**PHY112 General Physics** 2 Credits

**PHY113 Thermal Physics:** 2 Credits
Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan’s law.

Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro’s number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids. Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals. Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

**GST111: Communication in English I** 2 Credits
Effective communication and writing in English, Language skills, writing of Essay answers, comprehension, sentence construction, outlines and paragraphs, collection and organization of materials and logical presentation, punctuation.

**GST112: Logic, Philosophy and Human Existence** 2 Credits
A brief survey of the main branches of Philosophy. Symbolic logic, Special symbols. Logic-conjunction, negation, affirmation, disjunction.

**GST113 : Nigerian Peoples and Culture** 2 Credits
Study of Nigerian history, culture and arts in pre-colonial times, Nigerian’s perception of his world, culture areas of Nigeria and their characteristics. Evolution of Nigeria as a political unit. Indigene/settler phenomenon. Concepts of trade, economic self reliance, social justice, individual and
national development. Norms and values, negative attitudes and conducts (cultism and related vices). Re-orientation of moral environmental problem.

SECOND SEMESTER DESCRIPTION

CHM121: General Chemistry II 3 Credits

CHM122 Practical Chemistry 2 Credits

CHM123: Organic Chemistry II 3 Credits
(a) Polar Functional Group Chemistry:
   (ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollén’s reagent, Fehling’s solution, benedict’s solution, Lodoform reaction; with HCN, NaHSO₃; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
   (iv) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by – OOCOR-X –OR, -NR. Reaction with water, alcohols, ammonia and amines. LIACh₄, Test for esters.

(b) Miscellaneous Topics:
   (ii) Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.
   (iii) Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.
   (iv) Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandens definition, importance, examples.
MTH121: Vectors, Geometry And Statistics: 3 Credits
(a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.

MTH122: Differential Equations And Dynamics 3 Credits
(a) Differential Equations: Formation of differential equation of 1st degree and 1st order. Variables, separable, exact, homogenous and linear, differential equations of the 2nd order with constant coefficients.
(c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

PHY100: Practical Physics 2 Credits
Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

PHY121: Electromagnetism 2 Credits
Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole. Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchoff's laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances. Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.
Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.
Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through passes at low pressure, cathode rays; photo-electricity.

PHY122: Modern Physics I 2 Credits
Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation. Prerequisite: O-Level or WASC.

PHY123: Waves, Vibrations And Optics: 2 Credits
Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations.
Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

GST121: Use of Library, Study skills and ICT 2 Credits
A brief history of libraries, Library and education. University library and other types of libraries. Study skills (reference services). Types of library material. Using library resources including e-learning, e-materials, etc. Understanding library catalogues (card, OPAC etc), and classification, copyright and its implications. Data base resources, bibliographic citations and referencing. Development of modern ICT hardware technology, software technology. Input devices, storage devices, output devices. Communication and internet services, word processing skills (typing etc)

GST122: Communication in English II 2 Credits

GST123: Communication in French 2 Credits
Introduction to French, Alphabets and numeric for effective communication (written and oral). Conjugation and simple sentence construction based on communication approach. Sentence construction, comprehension and reading of simple texts.

IUIITS 102: Igbinedion University Industrial Training Scheme 1 1 Credit
A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. en Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.
# 200 LEVEL COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>L</th>
<th>T</th>
<th>P</th>
<th>Course Credit</th>
<th>Pre-Requisite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST</strong></td>
<td>MEE 221</td>
<td>Engineering Drawing I</td>
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<td>-</td>
<td>2</td>
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<tr>
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<td>MEE 231</td>
<td>Strength of Materials</td>
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<td>ELA 201</td>
<td>Laboratory</td>
<td>-</td>
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<td>EMA 201</td>
<td>Engineering Mathematics I</td>
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<td>-</td>
<td>3</td>
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<tr>
<td></td>
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<td>Computers and Computing</td>
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</table>
**FIRST SEMESTER**

**MEE221: Engineering Drawing (2 Credits)**

i. Use of draughting instruments, lettering, dimensioning, layout.


iv. Pictorial/Freehand sketching.

v. Conventional practices.


**MEE231: Strength of Materials (2 Credits)**

i. Force equilibrium – free body diagrams.

ii. Concept of stress, strain, tensile test. Young’s modulus and other strength factors.

iii. Axially loaded bars, composite bars, temperature stresses and simple indeterminate problems. Hoop stresses in cylinders and rings.

iv. Bending moment, shear force and axial force diagrams for simple cases, simple torsion and applications.

**MEE 251: Thermodynamics I (2 credits)**

i. Basic concepts, definitions and laws.

ii. The ideal gas, Heat and Work.

iii. The first law of thermodynamics, applications to open and closed systems.

iv. The steady state flow equation (Bernoulli’s Equation) and applications.


**MEE271: Manufacturing Technology/Workshop practice I (2 Credits)**

Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production.

i. Engineering materials: their uses and properties.

ii. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.


vi. General principles of working of standard metal cutting machine tools.

vii. Invited lectures from professionals.

**ELA 201: Laboratory (3 Credits)**

1. Verification of Boyle’s Law
2. Specific Heat Capacity Determination
EMA201: Engineering Mathematics I  (3 Credits)
   (b) Vector: Force, moment and angular velocity. Vector differentiation and integration.
   (c) Linear Algebra: Linear spaces, algebra of determinants and matrices.
   (d) Calculus: Differentiations and applications. The mean value theorem and its applications. Extension of mean value theorem. Taylor and Maclaurin formulae, Liebnitz’s theorem. (Application to the solution of differential equations with variable coefficients), de L’Hospital’s. Partial derivatives of functions of two and more variables.

ECP201: Computer and Computing  (2 Credits)
Program design using pseudo-code/Flowchart extensive examples and exercises in solving engineering problems. Computer programming using structure basic such as QBASIC symbols, keywords, identifiers, data types, operators, statements, flow of control, arrays, functions and procedures. Extensive examples in solving engineering problems using QBASIC. Use of Visual Programming such as visual Basic in solving Engineering problems.

EEE211: Electrical Engineering I  (2 Credits)

ENS211: Engineer in Society  (1 Credits)
   (i) Philosophy of Science
   (ii) History of Engineering and Technology
   (iii) Safety in Engineering and Introduction to risk analysis
   (iv) The role of Engineers in nation building
   (v) Invited lectures from professionals.

EPS 223: Introduction to Entrepreneurial Skills  (2 Credits)
Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.

GST 211: History and Philosophy of Science  (2 Credits)
Man- his origin and nature, Man and his cosmic environment, scientific methodology, science and technology in the society and service of man. Renewable and non-renewable resources- man and his energy resources. Environmental effects of chemicals, plastics, textiles wastes and other materials, Chemical and radiochemical harzards. Introduction to the various areas of science and technology. Elements of environmental studies.
SECOND SEMESTER

CHE 202: Introduction to Chemical Engineering (3 Credits)
Definition of Chemical Engineering. Types of Reactor (Ideal and non-ideal; batch, Plug flow, mixed flow) Simple unit operations e.g drying, distillation, crystallization. Fundamentals of material balances (recycle and bypass), and material balances. Energy balances in open and closed systems. Heat exchangers.

MEE 212: Applied Mechanics (3 Credits)
Statics: Laws of statics, system of forces and their properties. Simple problems, friction.
   ii. Kinematics of rigid bodies – velocity and acceleration diagrams for simple problems.
   iii. Kinetics of rigid bodies – Two dimensional motion of rigid bodies, energy and momentum, Mass moment of inertia. Simple problems.
   iv. Simple harmonic motions.

MEE 242: Materials Science (2 Credits)
   i. Alloy Theory – Application to industrial alloys. Steel in particular.
   ii. Engineering properties – Their control, hot and cold working, heat treatment, etc. Creep, fatigue and fracture. Corrosion and corrosion control.

MEE 262: Fluid Mechanics I (2 credits)
i. Elements of fluid statics; density, pressure, surface tension, viscosity, compressibility etc.
   ii. Hydrostatic forces on submerged surfaces due to incompressible fluid.
   iii. Introduction to fluid dynamics – conservation laws.
   iv. Introduction to viscous flow.

ELA 202: Laboratory (3 Credits)
2 Enthalpy Change Of Solution
3 Determination of the Physical Properties of Oil: (i) Specific gravity (ii) Viscosity (iii) Density (iv) Dynamic Viscosity (v) Kinematic Viscosity

EMA 202: Engineering Mathematics II (3 Credits)
(a) Further Integrations: Reduction formulae
(b) Differential Equations –
   (i) General Review: Exact differential equations. Simple applications in geometry, mechanics, chemical reactions and heat flow.
   (c) Mechanical and Electrical Oscillations: Oscillations of damped and undamped mechanical systems. Electric circuit theory. Resonance.
   (d) Numerical Methods: Introduction to numerical computation. Solution of non-linear equations. Solution of simultaneous linear equations -both direct and
iterative schemes. Finite difference operators. Introduction to linear programming (Graphical solution).

**ECP202: IT in Engineering**  
(2 Credits)  
Historical developments of Computers, External Components of computers, Characteristics of a computer, types and classification of hardware and software. Word processing: principle of operation, application, demonstration and practical hand-on exercises in word processing using a popular word processing package. Spread sheet: principle of operation, application, demonstration and practical hand-on exercises in the use of spread sheet to solve problems. Presentation software packages: principle of operation, application, demonstration and practical hand-on exercises in the use of popular report presentation package (such as power point). Mini project to test proficiency in the use of software packages. Database management Package: principle of operation, application, demonstration and practical hand-on exercises in the use of DBMS package in solving problems. Matlab: principle of operation, application, demonstration and specific functions/toolboxes to solve specific engineering problems.

**EEE212: Electrical Engineering II**  
(2 Credits)  

**CHE 212 Physical Chemistry**  
(2 Credits)  
Thermo-chemistry, electro-chemistry, kinetic theory, gas laws, transition metals, introductory organic and inorganic chemistry.

**GST 222: Peace Studies and Conflict Resolution**  
(2 Credits)  

**IUITS 202 Igbinedion University Industrial Training Scheme**  
(1 Credit)
A. CHEMICAL ENGINEERING OPTION

300 LEVEL CHEMICAL ENGINEERING COURSE STRUCTURE (OPTION)

<table>
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<tr>
<th>SEMESTER</th>
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300 LEVEL:
EMA 301: Engineering Mathematics III (2 CREDITS)


c) Functions of several variables: Mean value theorem of function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.

CHE 311: Chemical Engineering Thermodynamics II (3 Credits)

CHE 321: Biochemical Engineering (4 credits)
Introduction to microbiology and Biochemistry. Classification and growth characteristics of microorganisms. Enzymes in Engineering. Microbial culture processes in manufacturing industries.

CHE 341: Industrial Process Calculations (2 credits)

CHE 361: Fluid Flow For Chemical Engineers (2 Credits)

CHE 371: Separation Processes I (3 Credits)

GRE 331: Technical Communications (2 Credits)
Oral communication: Public speaking skills with effective use of visual aids and statistical and technical information. Principles of effective communication in interpersonal and mass communication process. Effective reading skills – extracting main ideas and reading for specific information through speed reading. Written communication: Principles of technical writing.

ELA 301: Chemical Engineering Laboratory I (2 Credits)
Laboratory experiments in transport phenomena. Kinetics and separation processes.

EPS 321: Introduction to Entrepreneurship Studies (2 Credits)
Some of the ventures to be focused upon include the following:
1. Soap/Detergent, Tooth rushes and tooth paste making
2. Photography
3. Brick, nails, screws making
4. Dyeing/Textile blocks, paste making
5. Rope making
6. Plumbing
7. Vulcanizing
8. Brewing
9. Glassware production/Ceramic, production
SECOND SEMESTER

CHE 312: Computer Applications In Chemical Engineering I (2 Credits)

CHE 322: Process Instrumentation (2 credits)

CHE 332: Chemical Reaction Kinetics/Engineering I (3 credits)
CHE 362: Transport Phenomena I (4 credits)

CHE 372: Particle Technology (2 credits)

EMA 302: Engineering Mathematics IV (3 Credits)
  a) Fourier series: Euler coefficients. Even and odd functions. Sine and Cosine functions; simple applications.
  b) Gamma, Beta and probability function (emphasis rather on the applications).
  c) Differential Equations: Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation. Legendre and Bessel functions and their properties.


ELA302: Chemical Engineering Laboratory II (2 Credits)
Further laboratory experiments in transport phenomena, kinetics and separation processes.

400 LEVEL COURSE STRUCTURE

TABLE 2.2: 400 Level Chemical Engineering Course Structure

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>SPREAD</th>
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400 LEVEL COURSES CONTENTS
CHE 411: CHEMICAL ENGINEERING THERMODYNAMICS II  2 credits

CHE 421:  CHEMICAL ENGINEERING ANALYSIS (Elective)  2 credits

CHE 431:  PROCESS DESIGN I  2 credits

CHE451  SEPARATION PROCESSES II  4 Credits

CHE461  TRANSPORT PHENOMENA II  4 Credits

CHE 471: ECONOMICS FOR ENGINEERS  2 Credits

CHE 481:  COMPUTER APPLICATIONS IN CHEMICAL ENGINEERING II  2 credits

CHE 491: INTRODUCTION TO ENTREPRENEURSHIP STUDIES  2 Credits
Some of the ventures to be focused upon include the following:
1. Soap/ Detergent making
2. Brewing
3. paper production
4. Electroplating of household wares

EMA401:  ENGINEERING MATHEMATICS IV ELECTIVE 2 Credits

**ELA401: CHEMICAL ENGINEERING LABORATORY III** 2 Credits
Laboratory experiments in transport phenomena. Separation processes and thermodynamics.

### 500 LEVEL COURSE STRUCTURE

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<th>COURSE CODE</th>
<th>COURSE TITLE</th>
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<td>(c) TECHNOLOGY OF PULP AND PAPER</td>
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### 500 LEVEL COURSE CONTENTS

**CHE 511: PROCESS DYNAMICS AND CONTROL** 4 Credits

**CHE 521: PROCESS OPTIMIZATION**


**CHE 531: PRINCIPLES OF CHEMICAL ENGINEERING PLANT DESIGN**


**CHE 541: SEPARATION PROCESSES III**


**CHE 551: PETROLEUM REFINING PROCESSES**


**CHE 561: CHEMICAL REACTION ENGINEERING III**

Classification and types of reactions. Methods of operation and design equations for single and multiple reactions. Temperature and pressure effect. Fluid mixing and residence time distribution. Fixed and fluidized bed reactor design. Catalyst deactivation.

**ELA501: CHEMICAL ENGINEERING LABORATORY III**

Laboratory experiments in unit operations such as distillation.

**GRE501: ENGINEERING MANAGEMENT/LAW**


SECOND SEMESTER

CHE 512: LOSS PREVENTION IN THE PROCESS INDUSTRIES
2 credits

CHEMICAL ENGINEERING RESEARCH PROJECT
6 Credits

CHE 532: PROCESS DESIGN III (Project)
5 credits
Students are divided into groups. Each group is assigned a chemical engineering design problem involving the study of a process. Each group is allowed two months to complete the design project. The project will involve the choice and preparation of process flow sheet, calculation of material and energy balances, equipment selection and specification, detailed design of some plant items, plant layout and instrumentation, economic analysis and safety considerations. A design report is required to be submitted by each individual student at the end of the two months period.

CHE 552: RESERVOIR ENGINEERING
3 credits

CHE 591: POLYMER ENGINEERING II
2 Credits

CHE 562: ONE ELECTIVE FROM:
3 credits
1. Technology of Inorganic Chemicals
2. Technology of Soaps and Detergents
3. Technology of Pulp and Paper

CHE 562A: TECHNOLOGY OF INORGANIC CHEMICALS
3 credits

CHE 562B: TECHNOLOGY OF DETERGENTS
3 credits
CHE 562C: TECHNOLOGY OF PULP AND PAPER 3 credits

CHE 572: ONE ELECTIVE FROM 3 credits
(a) Coal Processing Technology
(b) Sugar Technology
(c) Clay Processing Technology

CHE 572A: COAL PROCESSING TECHNOLOGY 3 credits

CHE 572B: SUGAR TECHNOLOGY 3 credits
Description of the equipment and the consideration of the processes and operations involved in the manufacture of retained sugar from cane. Utilization of the by-products of the refining operation. Safety, economics and environmental consideration. Energy recovery.

CHE 572C: CLAY PROCESSING TECHNOLOGY 3 credits

B. PETROLEUM ENGINEERING OPTION
300 LEVEL PETROLEUM ENGINEERING COURSES (OPTION)

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245
300 LEVEL COURSE CONTENT

**PEE301: Petroleum Engineering Laboratory I**
(2 Credits)
Analysis of drill cutting: Determination of porosity, fluid saturations, capillary pressure, permeability, electric properties, effective permeability and relative permeability. Physical properties of petroleum and its product, gravity, viscosity, surface tension, thermodynamic behaviour of naturally occurring hydrocarbon mixture, differential and flash vapourisation tests at elevated pressure and temperatures.

**PEE311: Basic Petroleum Engineering**
(3 Credits)
Overview of energy demand and supply of crude oil and gas. Concept of Geology, importance of Geology in Exploration: Definition of traps, reservoir formations, etc. properties and occurrence of Petroleum, Basic Method of Drilling-Cable tool and Rotary Drilling Methods and equipment used. Introduction to other drilling methods; Elements of reservoir Engineering: properties of reservoir fluids. Oil and gas production – primary, secondary and tertiary methods. Oil and gas field processing and gathering.

**PEE321: Rock and Fluid Properties**
(3 Credits)
Composition and Porosity of reservoir, Darcy’s Law and the concept of permeability and relative permeability, Capillary phenomena, Surface tension forces, Wattability, Compressibility and Static distribution of fluids. Electric conductivity, Behaviour of liquids, phase equilibrium, Viscosities of hydrocarbons, Use of fluid properties in Reservoir Engineering, Rock and fluid property correlations.

**GRE 331: Research Methods and Technical Report Writing**
(2 Credits)

**EMA 301: Engineering Mathematics III**
(3 Credits)
(a) Linear algebra: n-dimensional vectors, addition and scalar multiplication. Linear dependence and independence of set vectors. Matrices: operations of addition, scalar multiplication and product; determinants and their properties; sub-matrices and rank; inverse of a matrix. Theory of a system of linear equations, linear transformation and matrices; Eigenvalues and Eigenvectors of a matrix; Eigenvalues of Hermitian, skew Hermitian and unitary matrices; bilinear quadratic forms.
(b) Analytic geometry: Plane polar coordinates, coordinate transformation. Solid geometry and spheres and quadric surface. Spherical polar and cylindrical polar coordinates.
(c) Functions of several variables: Mean value theorem of function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.
EPS 321: Introduction to Entrepreneurship Studies 2 Credits
Some of the ventures to be focused upon include the following:
1. Soap/ Detergent, Tooth rushes and tooth paste making
2. Photography
3. Brick, nails, screws making
4. Dyeing/ Textile blocks, paste making
5. Rope making
6. Plumbing
7. Vulcanizing
8. Brewing
9. Glassware production/ Ceramic, production
10. paper production
11. Water treatment/ Conditioning/ Packaging
12. Food processing/ Packaging/ Preservation
13. Metal working/ Fabrication- Steel aluminum door and windows
14. Training Industry
15. Vegetable oil/ Salt extractions
16. Fisheries/ Aquaculture
17. Refrigeration/ Air conditioning
18. Plastic making
19. Crop farming
20. Domestic Electrical wiring
21. Radio/ TV repairs
22. Carving
23. Weaving
24. Brick laying / making
25. Bakery
26. Tailoring
27. Iron Welding
28. Building drawing
29. Carpentry.
30. Leather tanning
31. Interior decoration
32. Printing
33. Animal husbandry (Poultry, pigry, goat, etc)
34. Metal craft: Blacksmith, Tinsmith, etc.
35. Sanitary wares
36. Vehicle maintenance
37. Book keeping.
38. Computer installation and repairs

PEE302: Petroleum Engineering Laboratory II 2 Credits
(Drilling Mud / Cement Laboratory)
Mud preparation and treatments, measurement of drilling and well completion fluid properties, Cements types, properties and testing, laboratory observations of reactions between drilling and workover fluids on formation, Rheology, filtration and relations between drilling functions and measur drilling mud and completion fluid properties.

PEE322: Petroleum Geology 3 Credits

PEE332: Drilling Fluids Technology 3 Credits
Types and functions of drilling fluids, drilling additives and chemical composition, drilling mud calculations, control of mud properties, clay mineralogy in Niger Delta formation, formation damage caused by drilling fluid and chemistry of reaction between fluid and formation, drilling mud performance evaluation, well completion fluids, uses and problems, other drilling fluids; Air, Foam etc.

PEE342: Drilling Technology I 3 Credits
Elements of rock mechanics, basic drilling methods; cable tool and rotary drilling methods, advantages and disadvantages, equipment and drilling techniques used in cable tool drilling, introduction to other drilling methods; rotary drilling practices for oils and gas wells; basic rotary rig components; their functions and selection, formation pressures – formation pressure prediction, fracture gradient prediction; drilling fluids – functions; properties and testing, types of drilling fluids and additives, drilling hydraulics; drilling cost analysis and control. Well completion and safety techniques used in drilling and completion operations, offshore drilling – storage and transportation problems, prediction of wind, wave and current forces, equipment

PEE352: Petroleum Production Engineering 3 Credits
Introduction to Petroleum Engineering: Subsurface and operation. Operational functions and output of subsurface production engineer. Nodal analysis-Inflow and outflow performances: governing equations, inflow performance relationship (IPR) Productivity index (PI), formation damage, fines migration and skin effect, vertical lift, wellhead equipment performance and pressure losses stroke performance. Problem wells analysis: sand, water, hydrate scale, unstable flow, surge, waxy crude production, etc. Well surveillance. Well stimulation: Fracturing and acidizing introduction to artificial lift methods: Gas lift and pumping systems

EMA302: Engineering Mathematics IV 3 Credits
(b) Gamma, Beta and probability function (emphasis rather on the applications).
(c) Differential Equation: Equations of the form y” –f(x, y’). Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation and Bassel functions of first kind; their properties and introduction to applications.
(d) Vector Field Theory: Scalar and Vector fields: directional derivative; gradient of a scalar field, divergence and curl of a vector field; del operator. Line, surface and volume integrals. Divergence theorem of Gases and Stoke’s theorem. Green’s theorem. Line integrals independent of path and irrational vector fields.
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### 400 LEVEL COURSE CONTENTS

**PEE401: Petroleum Engineering Laboratory ii**

Rheological measurements: Waxy and non–Waxy Crude; Flow metering of liquids and gas: Determination of meter accuracy. Uses and Operations of various pressure regulators: Pressure loss measurement along pipes. Determination of friction factors; Bottom hole pressure determination: Oilfield quality control; Oilfield chemical tests; setting-up of Project laboratory. Pre-requisite PEE301, PEE302, CHEE352, CHHE 361

**PEE411: Drilling Technology II**

Formation damage, lost circulation, stuck pipe. Fishing operations, causes, control and prevention; well control-causes and detection of kicks, well control procedures, kill calculations. Blow-out (causes, control and prevention including equipment used).

Properties of cement/additives, primary cementing operations including hole and pipe preparation, equipment (surface and downhole) used in primary cement in operation, operational techniques and evaluation, squeeze cementing open-hole and easing plugs, etc. work-over operations, introductions, introduction, workover techniques (perforating, depth center). Squeeze cementing: well stimulation: sand control, directional drilling optimization of drilling operations; drilling in Niger Delta.

**PEE431: Well Testing**

Review of fundamental flow equations. Pressure Build-up Analysis. Former method of solution either methods, type of curve analysis: Fluid property approximations; calculation of average pressure, method of superposition, test design.

Testing Methods: drill stem testing, interference testing. Pulse testing: pulse testing, SFT, Other equivalent.

**PEE451: Well Logging**
3 Credits
Fundamentals resistivity of formation water. Mud lud-cake and mud-filtrato resistivity. Formation actor, porosity and lithology; formation resistivity saturation. Resistivity and fluid distribution, apparent resistivity, the spontaneous potential log, conventional resistivity logging, induction logging, laterelag, microlog, microlaterolog. Use and interpretation of electric log (bed detection and definition correlation, investigation of porosity, investigation of fluid content, quantitative interpretation. Side wall sampling: radioactivity well logging (basic principles, summary well logging, neutron well logging, interpretation of radioactivity logs, identification of borehole acts, interpretation of radioactivity logs, identification of borehole effects, formation identification, radioactivity well log application (engineering and production studies, tracers, evaluation studies, geological studies, special radioactivity well logs). Miscellaneous well logs (drill-time log, geologic-sample klog hydrocarbon mud log, directional log, diameter logs, caliper log, temperature log, acoustic-velocity log, collar-located log).

**PEE461: Reservoir Engineering I**
3 Credits
Introduction to petroleum reservoir engineering, physical properties of rocks and fluids (porosity, permeability of active and relative permeabilities, specific surface of rocks, compressibilities of rock and fluids, fluid saturation, wettability, surface tension, capillary forces, etc. fluid flow through porous media, application of Drey’s Law. Reservoir drives and races. Hydrocarbon content of reservoirs, its composition, formation. Water and its physical properties. Gas behaviour binary and multi-component systems. Equilibrium constant and its application. Sampling for PVT analysis, other methods of determining reservoir fluid properties; evaluation and interpretation.

**PEE471: Oil and Gas Production Technology I**
3 Credits

**CHE 481: Computer Applications in Petroleum Engineering II**
2 Credits

**EMA401: Engineering Mathematics IV Elective**
2 Credits
Elements of probability, density and distribution functions, moments, standard distribution, etc.

Statistics – Regression and correlation – Large sampling theory. Test, hypothesis and quality control.

**CHE 441: Petroleum Refining Processes** 3 credits

### 500 LEVEL PETROLEUM ENGINEERING COURSES

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### 500 LEVEL COURSE CONTENT

**PEE531: Oil Field Development I** 3 Credits
Applications of probability distributions, bionomial and normal distribution are occurrences and services requirements. Multiple kinds of objects and economic outcomes.
working interest versus overriding royal interest. Evaluating acceptance of a farm-out. Stochastic decision trees, forecasting and planning.

**PEE551: Petroleum Economics**

3 Credits

Application of reservoir engineering principles and economics to the evaluation of oil and gas properties. Application of probability and statistics to the evaluation of oil and gas venture. Estimation of future production of oil and gas by performance trends. Bayes strategies to estimate value of oil and gas properties. Application of simulation in the evaluation of oil and gas properties. Oil and gas property management.

**PEE561: Reservoir Engineering II**

3 Credits

Differential equation for fluid flow through porous media. Estimation of oil and gas in place, recoverable reserves by different methods: categorization of reserves. Derivation of material balance equation and production performance or different types of reservoirs such as solution gas drive, water drive, gas cap drive, etc; water influx calculation, reservoir models. Statistics and interpretation of production rate (production of oil, water and gas, GOR, porosity, permeability).

**PEE571: Oil and Gas Production Technology II**

3 Credits


Bottom-Hole Pump Production: Packer-rod pumps (well hand, surface and sub-surface equipment). Rod ring, rod load, string design, effective plunger stroke, buckling of tubing. Operating points (production capacity, volumetric efficiency, maximum liquid production, minimum polished head. Pumping units; rodless bottom hole pumps (hydraulic pumps, electric centrifugal pumps and other types). Automatic controls and interpretation of data. Production economics – optimum economical operation techniques and optimum sizes of production equipment in the case of flowing production, and artificial lift production. Choice of most economic production methods.

**PEE581: Natural Gas Engineering**

3 Credits


**GRE501: Engineering Management I**

2 Credits


**PEE591:** Numerical Methods 3 Credits

**PEE593:** Enhanced Oil Recovery Processes 3 Credits
Principles of displacement: review of rock properties, reservoir fluid properties, phase behaviour, displacement efficiencies; Gas methods: miscible slug, enriched gas, high pressure lean gas carbon dioxide, nitrogen and other inerts; Chemical methods; micellarpolymer, polymer augmented water-flood, permeability alteration, etc.
Thermal methods: steam stimulation, steam drive, in-situ combustion; foam injection; economic factors, cost of equipment and operation, risk, etc.

**PEE532:** Oil Field Development II 3 Credits

**PEE 552:** Industrial Safety and Pollution control 3 Credits

**PEE562:** Reservoir Engineering III 3 Credits
Oil Field development, Gas field development (Volumetric, water drive, gas-condensate reservoir); introduction to additional and secondary recovery and its division, different methods, mobility ratio, basic flooding networks used in industry, effect of mobility, sweep efficiency, etc. Injection rate and pressures in secondary recovery. Water source and its treatment, water flooding calculations using different methods – spacing and row of the wells. Immiscible and miscible displacement processes: polymer flooding, thermal recovery method. Economics of the oil and gas reservoir. Evaluation and feasibility studies.
PEE572: Oil and Gas Production III  3 Credits
Review of well heads and X-mass tree. Types of valves and pressure regulators. Separation of oil and
gas – basic Mechanical equilibrium calculations. Factors affecting seaport performance (pressure
temperature, stage separation composition). Types of separators, (spherical, vertical, horizontal)
cyclones. 3-phase autometric, etc). Selection of separator type, Oil storage tanks and gauges, Oil and
gas gathering systems, transportation of oil isothermal and non-isothermal flaw, Calculation of head
loss for the steady state flow of a Newton Oil (Cheraikin’s Theory and Ford’s Theory). Start-up
pressure of oils. Improvement of flow characteristics.
What-hydrocation system; Dehydration and sweetening of natural gas. Gas hydrates. Gas pressure

PEE582: Natural Gas Processing  3 Credits
Phase behaviour of natural gas systems; retrograde phenomena in natural gas mixtures; binary
mixtures. Vapourization – equilibrium constants. Bubble point and dew point determination. Field
processing: flash calculation; stage separation. Water hydrocarbon system; water content, storm
distillation, fractional distillation, binary distillation, multi-component distillation. Absorption and
adsorption; removal of H₂S and CO₂ from natural gas. Gas plant design, LPG and LNG systems.

PEE592: Elements of Reservoir Simulation  3 Credits
Types of reservoir models. History matching and performance prediction. Formation of partial
differential equations of reservoir fluid flow. Initial and boundary conditions. Infinite and bounded
reservoirs. Finite different formulation of equations. Numerical models for solution of finite
difference approximation. Study will include single and multiphase flows; one dimensional and two
dimensional simulation.

PEE 594: Offshore Technology  3 Credits
Type of offshore drilling rigs; the operational environment – stability and motion, prediction of wind,
wave and current forces, spread mooring systems, dynamic positioning of floating vessels. Offshore
drilling rig equipment – floor equipment, motion compensation and marine riser systems, subsea well
head, guide base and BOP systems; drilling operation sequence in offshore environment; offshore well
control operations, subsea well completions, subsea production systems.

GRE  502: Engineering Management II  3 Credits
Resource Management: Materials management. Purchasing methods. Contracts. Stores and
Methods of economic evaluation. Selection between alternatives. Planning Decision-making
Forecasting, Planning, Scheduling. Production control. Gantt Chart C. P. M. and PERT.
Optimization. Linear programming as an aid to decision-making. Elementary treatment of decision-
making policies under risks and uncertainties.
Transport and Materials Handling Selection of transport media for finished goods, raw materials and
equipment. Facility layout and location. Work study and production processes.
Basic principles of work study. Principles of motion economy. Ergonomics in the design of
equipment and processes. Introduction to Computer Softwares used in Management.
FORWARD BY THE DEAN

This new prospectus for Undergraduate Programme set out in detail information on the structure of the College of Engineering and includes extracts from the University Regulations Governing First Degree Programmes.

The prospectus also contains information on the history, aims and objectives, course description in respect of the College and the Department of Civil Engineering and other relevant matters.

From 2002/2003 Session, the College had been offering degree programmes in four major disciplines, namely:
Chemical and Petroleum Engineering
Civil Engineering
Electrical/Electronics and Computer Engineering
Mechanical Engineering

All the programmes are fully accredited by both NUC and COREN.

The new prospectus which has been reviewed according to NUC BMAS shall be of great value to students of Civil Engineering and staff of the College and other persons who may wish to obtain information on the academic programmes in the civil engineering department in particular and the College of Engineering in general.

Prof. P. B. Osofisan, FNSE
Dean Gen. A. A. College of Engineering

1. INTRODUCTION BY THE HEAD OF CIVIL ENGINEERING DEPARTMENT
The Department of Civil Engineering programme which began in September, 2002 (2002 / 2003 session) with an initial student intake of about 15, currently has student population of over 100 in the 2015 / 2016 session. Secondly, the initial staff strength of two (2) has considerably increased. The Department has eight (8) members of staff: five (5) are full-time teaching staff; three (3) are part-time lecturers; and one (1) is a technologist. The present full time staff-student ratio is estimated at 1: 10 and meets the NUC and COREN recommendations.

The Department has produced a total number of graduates of 190 (with B. Eng. Degree) from 2006 / 07 when it graduated the pioneer set to 2015 / 2016. Many of them are working in reputable engineering companies. And quite a good number is doing their graduate studies overseas.

The Department is making moderate, but steady and consistent developmental progress. The Department is now equipped with basic facilities, namely: office furniture and facilities; classrooms; lecture halls; laboratory/workshop; libraries; IT and Internet facilities, etc. The University is steadily providing more laboratory / workshop facilities, especially, in the following areas of specialization of the department: Water Resources / Environmental; Structures; Materials; Geo-technics; Survey and Geo- informatics and Transportation and Highway Engineering; etc.

The Central Library has many civil engineering books and journals. Besides, civil engineering students are very computer literate and exposed to IT and Internet facilities. The students also do their industrial training in reputable engineering based establishments. The staff seriously engage in various developmental and capacity building efforts. They attend and participate in engineering seminars, conferences; publish articles and undertake graduate studies (M. Eng. and PhD programs).

The Department is very proud of Mr. Thomas Oluwafemi Olumide, who became the first student to make first class honours (with CGPA of 4.69) in the Department of Civil Engineering in July, 2013. Besides the Department had produced three (3) other first class honours in 2014. With effect from 2010/2011 academic session, all existing courses (100 - 500 levels) have been revised and updated in compliance with NUC Benchmark Minimum Academic Standards (BMAS). Particularly, EPS 223: Introduction to Entrepreneurial Skills (2 credit units and a 200 level second semester course) and EPS 311: Introduction to Entrepreneurship Studies (2 credit units and a 300 level first semester course) were introduced. The new academic curriculum according to BMAS commenced in 2010/2011 academic session. The Civil Engineering Department got full NUC Accreditation in November, 2007 and March 2013. The Department also got full COREN Accreditation in July, 2009.

With effect from 2010/2011 academic session, all existing courses (100 - 500 levels) have been revised and updated in compliance with NUC Benchmark Minimum Academic Standards (BMAS). Particularly, EPS 223: Introduction to Entrepreneurial Skills (2 credit units and a 200 level second semester course) and EPS 311: Introduction to Entrepreneurship Studies (2 credit units and a 300 level first semester course) were introduced. The new academic curriculum according to BMAS commenced in 2010/2011 academic session. The Civil Engineering Department got full NUC Accreditation in November, 2007 and March 2013. The Department also got full COREN Accreditation in July, 2009.

To sum up, the Department has become a huge success. There are ongoing developmental programmes aimed at realizing our objectives. This edition of “Handbook for Undergraduate Programmes” sets out in detail information on the structure of the Department of Civil Engineering and includes extracts from the University Regulations Governing First Degree Programmes. The handbook also contains information on the History, aims and objectives, course description in respect of college and department of civil Engineering and other relevant matters. This handbook shall be of great value to students and staff of Civil Engineering of the Civil Engineering Department and other persons who may wish to obtain information on the academic programmes of the Department.

Engr. (Mrs.) Maryann O. Ezugwu, MNSE
Ag.HOD; Civil Engineering Department
18th February, 2016.
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*Forward by the Dean*

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<td>3.3.1</td>
<td>Departmental Vision</td>
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<td>3.3.2</td>
<td>College Vision</td>
</tr>
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<th>Section</th>
<th>Description</th>
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<td>4.5</td>
<td>Registration:</td>
</tr>
<tr>
<td>4.5.1</td>
<td>Course Adviser:</td>
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</tr>
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<td>5.2</td>
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</tr>
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### 6. Graduation

<table>
<thead>
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<th>Section</th>
<th>Description</th>
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<tbody>
<tr>
<td>6.1</td>
<td>Cumulative Grade Point Average (CGPA)</td>
</tr>
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   7.1 General Admission Requirements:
   7.2 Direct Entry Requirement:
   7.3 UME
   7.4 Duration

8. ACADEMIC REGULATIONS
   8.1 Academic Staff
   8.2 Technical Staff

9. ACADEMIC CURRICULUM CONTENTS
   9.1 Objectives
   9.2 Introduction to Courses Offered
   9.2.1 100 Level and 200 Levels
   9.2.2 300 Level
   9.2.3 Course Coding
   9.2.4 Course Contents
   9.2.4.1 Benchmark Minimum Academic Standards of the NUC (BMAS)
   9.3. Course Structures / Descriptions
   9.3.1 100 Level Course Structure/Contents/Description
   9.3.2 200 Level Course Structure/Contents/Description
   9.3.3 300 Level Course Structure/Contents/Description
   9.3.4 400 Level Course Structure/Contents/Description
   9.3.5 500 Level Course Structure/Contents/Description
   9.4 Final Year Project and Thesis
   9.6 Becoming a Chartered Engineer

10. FACILITIES AVAILABLE IN THE DEPARTMENT OF CIVIL ENGINEERING
   10.1 General Office Facilities Available
   10.1.2 Departmental Office Accommodation For Staff
   10.1.4 Class Rooms
   10.1.5 Drawing Studio / Offices:
   10.2 Library Facilities
   10.2.1 ICT Facilities
   10.2.2 Browsing Sites
   10.2.3 Common ICT/E-Learning/Distance Learning:-
   10.3 Research Centres
   10.4 Laboratories / Workshops

11. GENERAL UNIVERSITY / COLLEGE / DEPARTMENTAL FACILITIES
   11.1 Transportation Facilities
   11.2 Common Recreation Facilities
   11.3 Accommodation Facilities
   11.4 Staff Housing Accommodation
   11.5 Water Supply Facilities
   11.6 Electrical Power Supply Facilities
   11.7 Health Care Facilities
   11.8 Banking Facilities
   11.9 Security Facilities
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2. HISTORICAL BACKGROUND OF THE CIVIL ENGINEERING DEPARTMENTAL PROGRAMME (CIVIL ENG. DEPT. IN THE UNIVERSITY / COLLEGE CONTEXT)

2.1. Brief Background of the Civil Engineering Department

The Department of Civil Engineering programme which began in September, 2002 (2002 / 2003 session) with an initial student intake of about 15, currently has student population of over 88 in the current 2015 / 2016 session. Secondly, the initial staff strength of two (2) has considerably increased. The Department has twelve (12) members of staff: Eight (8) are full-time teaching staff; two (2) are part-time teaching staff and two (2) are non-teaching staff. The present staff-student ratio is estimated at 1:10, which is in line with NUC recommendation. Many full time staff would be joining the Department soon.


<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Levels</th>
<th>Full – Time Enrolment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 Level</td>
<td>200 Level</td>
</tr>
<tr>
<td>2002 / 2003</td>
<td>15</td>
<td>-</td>
</tr>
<tr>
<td>2003 / 2004</td>
<td>34</td>
<td>9</td>
</tr>
<tr>
<td>2004 / 2005</td>
<td>15</td>
<td>32</td>
</tr>
<tr>
<td>2005 / 2006</td>
<td>20</td>
<td>12</td>
</tr>
<tr>
<td>2006 / 2007</td>
<td>10</td>
<td>17</td>
</tr>
<tr>
<td>2007 / 2008</td>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td>2008 / 2009</td>
<td>26</td>
<td>10</td>
</tr>
<tr>
<td>2009 / 2010</td>
<td>32</td>
<td>24</td>
</tr>
<tr>
<td>2010 / 2011</td>
<td>17</td>
<td>38</td>
</tr>
<tr>
<td>2011 / 2012</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>2012 / 2013</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>2013 / 2014</td>
<td>19</td>
<td>16</td>
</tr>
<tr>
<td>2014 / 2015</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>2015 / 2016</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

2.1.1. Staff Strength

The department has a highly experienced team of academic, technical and administrative staff with cognate experience. The staff strength is now twelve (12); out of which, ten (10) teaching staff, two (2) are technologists.

2.1.2. Staff – Student Ratio

The current staff – student ratio for the department is approximately 1:10.

2.1.3. Graduated Students

The department has graduated her first (pioneer) set of students in session 2006 / 2007. Sixty six (66) students have since graduated from the department (summarized below). And thirty (30) would expectedly graduate this year. Majority of the graduated students, upon completion of their NYSC, are doing their post graduate studies in Europe and USA, while others have got good job in reputable companies. Some graduates are very patriotic and would like to make donations (especially needed facilities) to the department.
2.1.4. The Distribution of the Various Classes of Degrees are as Follows:

<table>
<thead>
<tr>
<th>Class of Degree</th>
<th>No. of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt; Class</td>
<td>4</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Class Upper</td>
<td>45</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt; Class Lower</td>
<td>54</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt; Class</td>
<td>04</td>
</tr>
<tr>
<td>Pass</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>108</strong></td>
</tr>
</tbody>
</table>

2.1.5. Departmental Staff

The departmental Staff (full-time lecturers; associate lecturers and technologists) are as given below:

2.1.5.1. Full-Time Staff

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name of Staff</th>
<th>Rank/Designation</th>
<th>Status</th>
<th>Qualifications, Specialisation, Membership of Professional Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. B. U. Anyata</td>
<td>Professor</td>
<td>Adjunct</td>
<td>B.Sc, M.Sc, Ph.D</td>
</tr>
<tr>
<td>2.</td>
<td>Engr. (Mrs.) Maryann Ezugwu</td>
<td>Lecturer I/HOD</td>
<td>F/time</td>
<td>B.Eng (Civil) M. Eng.; MNSE; COREN R. 24,944</td>
</tr>
<tr>
<td>3.</td>
<td>Engr. Avemaria Matthew Eze</td>
<td>Senior Lecturer</td>
<td>F/Time</td>
<td>B.Eng.(Civil Eng) M.Eng MNSE, Registered Engineer (COREN;R.7590)</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Nwankwo Ebuka</td>
<td>Associate Senior Lecturer</td>
<td>P/Time</td>
<td>B.ENG, M.Eng, Ph.D; COREN R.20175</td>
</tr>
<tr>
<td>5.</td>
<td>Dr (Mrs.) J. C. Aboloje</td>
<td>Senior Lecturer</td>
<td>F/Time</td>
<td>B.Sc, M.Sc, Ph.D; MNSE COREN R.11931</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Emmanuel O. Eze</td>
<td>Assoc. Prof.</td>
<td>P/Time</td>
<td>B.Sc, M.Sc, Ph.D; Reg. Geologist</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. H.A.P. Audu</td>
<td>Senior Lecturer</td>
<td>P/Time</td>
<td>B.Sc, M.Sc, Ph.D; Reg. Surveyor</td>
</tr>
</tbody>
</table>
8. Engr. Atikpo Eguakhide  Lecturer I  F/Time  B. Eng. (Civil Eng.); M.Eng; MNSE COREN R.24,516

9. Engr. Lucky Umukoro  Lecturer II  F/T  B.Eng. (Civil Eng) M.Eng; MNSE; COREN R. 22,091

10. Engr. Ngozi Kayode-Ojo  Lecturer I  F/time  B.Eng (Civil) M. Eng (Geotech). COREN R.8708

11. Engr. Endurance Obroku  Lecturer II  F/T  B.Eng. (Civil Eng.); First Class; M.Eng; MNSE; COREN Registered.

12. Mr. Ijeh Ifeanyi Purity  Lecturer II  F/T  B.Eng. (Civil Eng.); First Class; M. Eng.

2.1.5.2. Technical Staff

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name of Staff</th>
<th>Rank/Designation</th>
<th>Status</th>
<th>Qualifications, Specialization, Membership of Professional Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Mr. Osaro Efosa Ogbe</td>
<td>Technologist I</td>
<td>F/Time</td>
<td>HND(Civil)</td>
</tr>
<tr>
<td>12</td>
<td>Mr. William Osiboko</td>
<td>Technologist I</td>
<td>F/Time</td>
<td>HND(Civil)</td>
</tr>
</tbody>
</table>

2.1.5.3. External Examiner

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name of Staff</th>
<th>Rank/Designation</th>
<th>Status</th>
<th>Qualifications, Specialisation, Membership of Professional Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engr. Prof. O. C. Izinyon</td>
<td>Professor of Civil Engineering</td>
<td>External Examiner</td>
<td>B.Eng. (Civil Eng) M.Eng ); Ph.D; MNSE, COREN Registered</td>
</tr>
</tbody>
</table>

2.1.6. Staff Development (and Capacity Building)

Igbinedion University, Okada encourage and promote staff development; and capacity building of its staff; such as pursuing PhD programs (in line with the NUC directive) either in the or elsewhere. Different conditions exist for those who have their tuition and other fees paid for by the University. In principle, Igbinedion University, Okada has the policy for paying reduced subsidized or reduced tuition for the employee staff. The University further plans to sponsor further education of its staff abroad, with the affordable financial constraint of a private initiative.

All the lecturers in the department are doing their post graduate studies: Four are currently doing their PhD; and one is doing M.Sc. They are encouraged and motivated by the University. The University plans more incentive package for them.

2.1.6.1. University Sponsorship for Continuing Professional Development

The engineering personnel who are registered with COREN, are sponsored by the university to attend both the NSE AGM and COREN National Assemblies, which are part of Continuing Professional; Staff Development (CPD) Scheme.

Attendances to COREN National Assemblies; NSE AGM; Engineering Conferences, etc (under the University sponsorship), have particularly boosted the Continuing Professional Development (CPD) scheme credentials of the staff beneficiaries.
List of Civil Engineering Departmental Staff who have gained from the University sponsorship to attend and participate in various past COREN National Assembly; NSE AGM and Engineering Conferences, etc is given below.

2.1.6.2. List of Department of Civil Engineering Personnel who had been Sponsored to Attend COREN National Assembly; NSE AGM and Engineering Conferences:

<table>
<thead>
<tr>
<th>S/No</th>
<th>Names of the Lecturers</th>
<th>COREN National Assembly; NSE AGM and Engineering Conferences Attended</th>
<th>Period / Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Engr. Avemaria Matthew Eze, MNSE</td>
<td>14\textsuperscript{th} COREN National Assemblies</td>
<td>Abuja 2005;2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18\textsuperscript{th} COREN National Assembly</td>
<td>2008; Abuja</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20\textsuperscript{th} COREN National Assembly</td>
<td>2010; Enugu</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NSE Annual Conference/AGM</td>
<td>2006; Warri</td>
</tr>
<tr>
<td></td>
<td></td>
<td>International Engineering Conference</td>
<td>2009; UNIBEN</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Joseph B. Adeyeri, MNSE</td>
<td>14\textsuperscript{th} COREN National Assembly</td>
<td>2005; Abuja</td>
</tr>
<tr>
<td>3.</td>
<td>Engr. Dr. Felix O. Oginni, Adeyeri, MNSE</td>
<td>14\textsuperscript{th} COREN National Assembly</td>
<td>2005; Abuja</td>
</tr>
</tbody>
</table>

2.1.6.3. Staff Contribution to Engineering and Industry
Some senior engineering personnel have worked in many engineering based establishments. They have practiced civil engineering to a very high level such as supervision of World sponsored projects and ADB assisted projects.

And they have also gained extensive and wide experience in civil engineering practice. The senior registered engineers are consultants to some companies.

Many departmental staff members have published papers, in engineering journals or made contributions in other engineering works, as well as presented papers in seminars and engineering conferences.

Some have also participated in trade fair exhibitions where some models developed in the department are exhibited.

The engineering staff who are registered with COREN, are sponsored by the university to attend both the NSE AGM and COREN National Assemblies, which are part of Continuing Professional; Staff Development (CPD) Scheme.

All these achievements and credentials are contained in the Curriculum Vitae of the key engineering personnel (kept in their office file).

2.1.6.4. In-house Training
This is ongoing for staff and students in the areas of application software, design pro, AUTOCAD, proton Hysusetc to enhance ICT capacity, CAD/CAM applications, Also training is undertaken for special process equipment and others housed in the college workshop/laboratories.
2.1.7. Self Empowerment Programme
Students are also exposed to the concept of entrepreneurship with a view to self employment. Sources of finance for a business venture, appraisal of customers and the keeping of proper accounting records are among the topics discussed.

2.1.8. NUC and COREN Accreditations of the Civil Engineering Department
The Civil Engineering Department is one of the departments that got full NUC accreditation in November, 2007. It was equally among the departments that got full COREN Accreditation July, 2009.

2.1.9. Administration in General of College of Engineering / and in the Department of Civil

2.1.9.1. Personnel Administration:
(a) The Department has ten (10) members of staff. Five (5) are full-time, four (4) are associate and one (1) is non-teaching staff.
(b) Decision-making is usually collective; taken at the Departmental Board of Studies meeting.
(c) Staff are given the opportunity to study for higher degree at full/part-time.
(d) Staff are promoted after three years if they are productive (Publications).

2.1.9.2. Student’s Welfare:
(a) Academic grievances are handled by the Head of Department and the appropriate level adviser.
(b) Each level adviser provides counsel and advice on courses offered.

2.1.9.3. Academic Atmosphere:
(a) The department encourages students to dress in a corporate manner while attending lectures.
(c) Students are encouraged to use the library facilities during free period.
2.1.9.4. Organizational Structure of the Civil Engineering Department

2.1.9.5. Plan Layout and Organizational Structure of the College/ Civil Eng. Dept.
(Collegiate system with the following structures (Administrative /Department)

1. College Office

- Dean
  - Sub Dean
    - College Officer
    - College Secretary
    - Finance Officer
    - Cleaners/Drivers
  - Schedule Officer
    - Time Table Officer
    - Exam Officer
    - SWIES Officer
    - ICT
    - Committee
2.1.9.10. **College Committees/Boards**

- College Board
- Board of Examiners
- Appointment And Promotion Committee
- Welfare
- Disciplinary
- Finance
- Executive Committee
- Awards And Prizes Committee
- Welfare Committee
- Sports Committee
- Strategic Planning Committee
- Curriculum
- Examinations Committee
- Time Table
- ICT
- SIWES / IT Committee
- Students’ Advisory Committee
- ICT Committee
- Research And Publications Committee
- Seminar Committee
- Project Coordinating Committee

3. **GENERAL PHILOSOPHY AND OBJECTIVES OF THE COLLEGE/DEPT**

3.1. **General Philosophy and Objectives**

The general philosophy in line with the minimum academic standards set by the COREN is to produce graduates with high academic standard with adequate practical background and of immediate value to industry and the nation in general; and be self-employable. The programme has four-intervening Industrial-Training periods to enable the engineering graduates acquire the necessary skills to solve local problems. Pursuant to the general philosophy, therefore, the programmes have been designed to incorporate the following features:

(a) Common courses at the 100 and 200 levels for all engineering students
(b) 8 weeks industrial training workshop practical at the end of the 2nd semester 100 level examinations for all engineering students.
(c) Workshop practice (up to 300 level) and, laboratory work for all engineering students.
(d) Interaction between students and professionals through regular seminars
(e) Final year research project where the student works alone under an academic supervisor
(f) Opportunity to have in-depth study of a specific area of the programme from a wide selection of optional courses.
(g) Adequate knowledge in engineering management and entrepreneurship
3.2. GOALS AND OBJECTIVES:
The general goals and objectives of engineering training are expected to be in consonance with the realization of national desires with respect to industrial development and high technology attainment. Consequently, the objectives of the engineering programmer are to:

(a) Develop the necessary skills, creative ability, attitudes and expertise consistent with engineering design, communication and construction of engineering works and projects;

(b) adapt and improve on exogenous technology in order to enhance construction techniques and the proper study and use of local raw materials;

(c) inculcate maintenance culture in the use of engineering artifacts;

(d) inculcate a responsible attitude towards demands made by the practice of engineering and risk implication of design and construction;

(e) install and maintain complex engineering systems to enable them perform optimally in the Nigerian environment;

(f) be able to exercise original thought, have good professional judgment and be able to take responsibility for the direction of important assignments;

(g) be self employable, and,

(h) ensure therefore, that engineering graduates from Igbinedion University are resourceful, creative, knowledgeable and capable of carrying out the following functions:

(i) to design engineering projects and supervise their construction;

(ii) to design components of Civil Engineering Systems and Works – Structures, Water Resources Systems, Highways, Transportation, etc.;

(iii) to design materials mix proportions (quality control) to get a high standard works;

To be good manager of people, money, material, plants and projects.

The general goals and objectives of engineering training are expected to be in consonance with the realization of national desires with respect to industrial development and high technology attainment. Consequently, the objectives of the engineering programmes are to:

3.3. DEPARTMENTAL / COLLEGE VISION

3.3.1. Departmental Vision

The departmental mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the department will provide:

- State-of-the-art technological and engineering training that prepares the graduates for responsibilities of the workplace.
- To produce qualified and competent Civil Engineers in such areas of specialization as – Structural Engineering, Water Resources Engineering, Highways and Transportation Engineering, Foundation / Geotechnical Engineering Construction Management, etc.
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships
- Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.
The dream of the department is to become one of the best Civil Engineering Departments in any Nigerian University with national and international acclaim. A department where the advancement of engineering and technology is continuously dynamic. Its graduate will become very capable and environmental-friendly engineers who would be very relevant in the public and private sectors of the economy and rapid industrialization and development of Nigeria.

3.3.2. College Vision
The vision of the College is to be the best Engineering College in any Nigerian University with national and international acclaim; a College where the advancement of engineering and technology is continuously dynamic, environment-friendly engineers, required in the public and private sectors of the economy are mid-wifed for the rapid industrialization and development of Nigeria.

4. SPECIFIC REQUIREMENTS TO ACHIEVE THESE GOALS AND OBJECTIVES
In order to achieve the goals and objectives set out above, and taking into consideration the broad-based approach to engineering education and training, we therefore made the following recommendations

4.1. Academic Staff:
Efforts are made to ensure that the NUC guideline on staff-student ratio of 1 to 30 is maintained. The College has qualified staff with PhD. degrees as well as industrial experience.

4.2. Technical Staff:
The College has competent technical staff to run the laboratories, workshops, studios, and maintain teaching and research equipment.

4.3. Admission Requirements:
(1) Candidates seeking 100-level admission into the College leading to the Bachelor of Engineering, (B.Eng) Degree, of the College of Engineering Technology should possess passes at the credit level, or higher, in the Senior Secondary School Certificate Examination (SSCE) or General Certificate of Education (GCE) ‘O’ Level in five subjects, including Mathematics, Physics, Chemistry and English Language, plus an acceptable pass in the Universities Matriculation Examinations (UME), where applicable. Equivalent passes in examinations conducted by NECO and NABTEB are accepted.

(2) Candidates seeking Direct Entry admission to 200 level of the programmes should possess GCE ‘A’ Level in Mathematics, Physics and Chemistry or Ordinary National Diploma from a recognize institution with lower credit, or a University Diploma in a Science or Engineering based course at the Merit level, in addition to the matriculation requirements stated in (1) above. Candidates with Higher national diplomas in relevant disciplines can be considered for direct entry as appropriate Curriculum

4.4. Course Credits
All courses for the Bachelor of Engineering degree programmes should be based on the various Departments. Courses taken at the 100 and 200 levels are common to all Departments in the Faculty and are taught Faculty-wide by Departments assigned to teach the courses. All courses are assigned credits. One credit is equivalent to one
hour per week per semester of fifteen (15) weeks of lectures or tutorials or three (3) hours per week of laboratory work per semester. All students in the programmes should take a minimum load of eighteen (18) credits per semester. A minimum of nine (9) hours per week, (equivalent to three (3) credits), should be spent on laboratory practical.

There should also be one hour of tutorial for every four (4) hours of lecture.

4.5. Registration:
At the beginning of every session all students are to register for all their courses for that session using online registration as required by the University’s Examinations and Records Unit of the Registry. They must register for a minimum of 18 credits per semester and 36 credits per session. The maximum number of credits for a session must, however, not exceed 52 credits.

4.5.1. Course Adviser:
Each Head of Department appoints academic staff as course adviser to the students for the different level of study, with the primary responsibility of ensuring that the students register for the courses and credits as is required, and advising them on University regulations as they relate to their studentship.

4.5.2. Industrial Training:
Engineering education is incomplete without industrial attachment being part of the degree programme. The NUC recommends a minimum duration of 40 weeks (one semester and 3 long vacations) for industrial attachment. The objective of the attachments cannot be overemphasized. It is to expose the students to a live working environment where they can relate theory to practice and enhance their communication and human relation skills. Priority is given to those engineering concerns in which maintenance and workshop practice plays a major role because they offer practical exposure that may be available in the Colleges. From the aforementioned, the following practical training scheme: Igbinedion University Industrial Training Scheme, (IUITS), is carried out by the college:

(i) **Pre-degree IUITS – IUITS 102**
This is an intensive eight-week in house practical training in the various workshops within the College and around the campus. It commences two weeks after the end of the 100 level Session Examinations for 100 level Engineering students. During this period, the students are exposed to workshop practices that may be encountered in the mechanical, machine, sheet metal, automobile, welding, carpentry, civil and electrical engineering workshops.

(ii) **First Industrial Attachment (200 level IUITS) – IUITS 202**
This takes place in the long vacation after the end of the 200 level session examinations, in relevant industries for a period of 12 weeks, with supervisory visits by College staff.

(i) **Second Industrial Attachment (300 Level IUITS) - IUITS 302**
The attachment takes place at the end of the 300 level session examinations for 12 weeks of the long vacation. Again College staffs are expected to visit the trainees for on-the-spot assessment of their progress.

(ii) **Third Industrial Attachment (400 Level IUITS) - IUITS 402**
The attachment, which begins at the end of the first semester examinations, at the 400 level of the programme, is the final exposure to industrial practice.
before the completion of the Bachelor of Engineering degree programme. It last for 24 weeks. It is expected that during the training, the student is exposed to his/her chosen end Degree.

(iii) **Grading and Assessment of Industrial Training**

This should be a combination of Continuous Assessment (CA) by the supervising college staff that visit the students on training, and the grading of the logbooks and final written reports of each student at the end of each training attachment. The designated officer of the establishment must properly authenticate such logbooks and reports where the students served.

Each week of Industrial Training is assigned one (1) credit. Consequently the totality of Industrial Training amounts to 56 credits. For a student to graduate, such a student must have satisfied 42 IUITS credits and obtained a minimum of 50% in the logbook and final written report.

5.1. **Examinations; Standard Tests and Continuous Assessment**

5.1. **Examinations:** The department complies fully with the regulations of the NUC in conducting standard tests and examinations. Examination Question are set by the Course Lecturer and the Head of Department/departmental board of Examiners/External Examiner(s) vet and select questions to be attempted by students. The This is applicable to 100 level – 500 level Students. Examinations are conducted in large halls with students sitting with a or two space(s) in between. Questions are marked in line with a prepared marking scheme.

5.2. **Standard Tests and Continuous Assessment**. The department also, fully and strictly implements continuous assessment program. The continuous assessment package of the department comprises of: class attendance; assignments; and tests all of which carry 30% while the examination carry 70%. The continuous assessment grading system of the department is given below.

<table>
<thead>
<tr>
<th>S/No.</th>
<th>Components</th>
<th>Allocated Marks (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Class Attendance</td>
<td>5 %</td>
</tr>
<tr>
<td>2.</td>
<td>Assignment</td>
<td>10%</td>
</tr>
<tr>
<td>3.</td>
<td>Tests</td>
<td>15%</td>
</tr>
<tr>
<td></td>
<td><strong>Total CA</strong></td>
<td><strong>30%</strong></td>
</tr>
<tr>
<td>4.</td>
<td>Examination</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL MARKS</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

In addition, attendance (physical presence) of the student at lectures is very important, and class register is strictly kept as well as checked by the University Authority before the semester examination. A student must have attendance score of 75 % to become eligible to sit for and write semester examinations. Typical examination questions and model solution / marking schemes are appended or attached at the end of this COREN Self Study Form. See
Appendix 2: Also, a typical examination time table is put in appendix 1 of this self study form.

5.3. **Eligibility for summer:**
Eligible students for the summer school will be those:

(a) Who are not indebted to the University in any form?
(b) Who have attended lectures during the semester(s), sat for examination and failed in the relevant course(s)
(c) Who have attended lecture for the said course(s) during the semester(s) but failed to sit for examination due to acceptable reasons as approved by Senate.

5.1.1. To qualify to register for any course in summer, a student must score at least 25% for the said course(s). In order words, a student who scores below 25% in any course(s) will automatically carry such course(s) over to the next level of study.

| Table 1.1: Students Who Registered Two Semesters, (100 & 200 Levels) |
|------------------------|------------------|----------------|
| Category | Total credits earned | Status |
| A | All credits registered | Pass |
| B | ≥ 23 credits | Pass with carry over |
| C<sup>(1)</sup> | ≥12 < 23 credits | Probation |
| D<sup>(2)</sup> | < 12 credits | Fail withdraw |
| E<sup>(3)</sup> | ≥ 12 < 23 credits | Fail withdraw because of previous probation |

| Table 1.2: Students Who Registered Two Semesters (300 & 400 Levels) |
|------------------------|------------------|----------------|
| Category | Total credits earned | Status |
| A | All credits registered | Pass |
| B | ≥ 15 credits | Pass with carry over |
| C<sup>(1)</sup> | ≥8 < 15 credits | Probation |
| D<sup>(2)</sup> | < 8 credits | Fail withdraw |
| E<sup>(3)</sup> | ≥ 8 < 15 credits | Fail withdraw because of previous probation |

| Table 1.3: Students Who Registered One Semester Only (400 Level) |
|------------------------|------------------|----------------|
| Category | Total credits earned | Status |
| A | All credits registered | Pass |
| B | ≥ 8 credits | Pass with carry over |
| C<sup>(1)</sup> | ≥4 < 8 credits | Probation |
| D<sup>(2)</sup> | < 4 credits | Fail withdraw |
| E<sup>(3)</sup> | ≥ 4 < 8 credits | Fail withdraw because of previous probation |

**Notes:**

1) Students in category C in the tables may be allowed to remain in the College and repeat all the courses from the previous session in the new session, or transfer to another College.
2) Students in category D are to withdraw from the University for Poor Academic Performance.

3) Students in category E are to withdraw from the University having failed to utilize the probation period to improve on their academic performance.

6. Graduation

For a student to qualify for graduation from any of the programmes, such a student must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements, and all General studies courses of the University. Such a student must have also met the minimum number of years and not exceeded the maximum number of years required for graduation shown in Table 1.4.

Table 1.4: Minimum and Maximum No. of years Required for Graduation

<table>
<thead>
<tr>
<th>Level of entry</th>
<th>Minimum number of years to graduate</th>
<th>Maximum number of years to graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>200 level</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>300 level</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

The class of the Bachelor of Engineering Degree is determined by the final cumulative grade point average earned by the graduating student.

6.1. Cumulative Grade Point Average (CGPA)

The CGPA for each level of course is calculated from a combination of the grade GP assigned to % scored obtained in the examination and the credit assigned to that course. The relationship presented in Table 1.5.

Table 1.5: Calculation of GPA

<table>
<thead>
<tr>
<th>Courses attempted (a)</th>
<th>Credits attempted (b)</th>
<th>% Scores</th>
<th>Letter grades</th>
<th>Grade point (e)</th>
<th>Grade point credit weighed (f)</th>
<th>Cumulative grade point average (GPA) (g)= ∑(f)/ ∑ (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 211</td>
<td>3</td>
<td>70 – 00%</td>
<td>A</td>
<td>5</td>
<td>3 x 5 = 15</td>
<td>46 = 2.42</td>
</tr>
<tr>
<td>CHE 221</td>
<td>3</td>
<td>60 – 69%</td>
<td>B</td>
<td>4</td>
<td>3 x 4 = 12</td>
<td></td>
</tr>
<tr>
<td>CHE 231</td>
<td>4</td>
<td>50 – 59%</td>
<td>C</td>
<td>3</td>
<td>4 x 3 = 12</td>
<td></td>
</tr>
<tr>
<td>CHE 241</td>
<td>2</td>
<td>45 – 49%</td>
<td>D</td>
<td>2</td>
<td>2 x 2 = 4</td>
<td></td>
</tr>
<tr>
<td>CHE 251</td>
<td>3</td>
<td>40 – 44%</td>
<td>E</td>
<td>1</td>
<td>3 x 1 = 3</td>
<td></td>
</tr>
<tr>
<td>CHE 261</td>
<td>4</td>
<td>0 – 39%</td>
<td>F</td>
<td>0</td>
<td>4 x 0 = 4</td>
<td></td>
</tr>
<tr>
<td>Total 19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Total 46</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Thus the student who attempted the 200 level courses shown in Table 1.6, sat for a total of 19 credits, and ended up with a GPA of 2.42 for that level. This mode of computation is done for each level per student. The cumulative grade points average, CGPA on which the classification of a graduating student is based, is the sum of the GPA’s for each level divided by 5 for a 5-year programme, or 4 for a 4-year programme presented in Table 1.6.
Table 1.6: CGPA for a Graduating Student, Mr. XYZ

<table>
<thead>
<tr>
<th>Mat No.</th>
<th>Name of Student</th>
<th>Level</th>
<th>Value point/credit unit</th>
<th>CGPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG9900020</td>
<td>Mr. XYZ</td>
<td>100</td>
<td>157/49</td>
<td>827/217 = 3.81</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200</td>
<td>162/48</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>300</td>
<td>200/49</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>128/29</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
<td>180/42</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td>827/217</td>
</tr>
</tbody>
</table>

The degree classification, according to the CGPA recommended by the NUC is presented in Table 1.7.

Table 1.7: Degree Classification

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First Class</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>2nd Class Upper Division</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>2nd Class Lower Division</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>3rd Class Lower Division</td>
</tr>
<tr>
<td>1.00 – 1.49</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Thus, the candidate, Mr. XYZ who finished up with a CGPA of 3.81 has earned a 2nd Class Upper Degree.

7. ADMISSION REQUIREMENTS:
   7.1. General Admission Requirements:
   Candidates seeking 100-level admission into the Civil Engineering Department leading to the Bachelor of Engineering, (B. Eng) Degree, should possess passes at the credit level, or higher, in the Senior Secondary School Certificate Examination(SSCE) or General Certificate of Education (GCE) ‘O’ Level in five subjects, including Mathematics, Physics, Chemistry and English Language, plus an acceptable pass in the Universities Matriculation Examinations (UME), where applicable. Equivalent passes in examinations conducted by NECO and NABTEB are accepted.

   7.2. Direct Entry Requirement:
   (i) Two A’ level passes in Mathematics and Physics and an additional subsidiary subject. Candidates are expected to possess five credits including English Language, Mathematics, Physics, Chemistry and an additional subsidiary subject results at O’level and A’level must be obtained at not more than two sittings; or
   A National Diploma certificate from approved universities or colleges of technologies or Polytechnics with a grade not lower than Merit. In addition, the applicant must possess five credit at SSCE/GCE O’ level / NECO or its equivalent in subjects which includes English Language, Mathematics and Physics, Chemistry and an additional subsidiary subject.
   • Any other relevant credential approved by the Senate of the University.
7.3. **UME**

Five O’ level credits including English Language, Mathematics, Physics, Chemistry and an additional subsidiary subject and any other two relevant subjects.

a) Programme/Sub-discipline/Discipline Structure to include period of formal studies in the Universities. Industrial training, planned visit and projects.
   - B.Eng. (Civil) - 5 years.
   - By Direct Entry - 4 years.

b) Course Content Specifications / Syllabus of all courses in the Programme / Sub-Discipline / Discipline.

c) Attach a list of Titles of Degree projects, if any, carried out by the students in the Programme/Sub-Discipline/Discipline in the last three years.

7.4. **Duration**

The duration for the Civil Engineering Course is:

<table>
<thead>
<tr>
<th>Programme/Sub-Discipline/Discipline</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>UME</td>
<td>B.Eng. (Civil)</td>
</tr>
<tr>
<td>Direct Entry</td>
<td>5 years.</td>
</tr>
<tr>
<td></td>
<td>3/4 years.</td>
</tr>
</tbody>
</table>

8. **ACADEMIC REGULATIONS**

Academic Regulations are contained in the standard civil engineering departmental handbook. The handbook also contains entry requirements, rules and regulations governing the conduct of examinations, grading systems, penalties for examination malpractices, etc.

8.1. **Academic Staff:**

Efforts should be made to ensure that the COREN guideline on staff-student ratio of 1 to 9 is maintained. In the same vein, each department should have a minimum of six full-time equivalents of staff on ground. The need to recruit some staff with Ph.D. degrees as well as industrial experience cannot be over-emphasized. The entry qualifications of staff seeking academic placement in the College, as recommended by the COREN, are reproduced below, with slight modifications:

(i) **Graduate Assistant:** Candidates must have an Honours Degree in the appropriate discipline with at least a Second Class (Lower pass), and should have completed the National Youth Corps Service, where applicable.

(ii) **Lecturer II:**
Candidates must have a degree of Master in the appropriate discipline plus at least two years of cognate experience.

(iii) **Lecturer I:**
Candidates should normally have Ph.D. Degree with at least one year of teaching or industrial experience, plus one scholarly publication. However, where a candidate does not possess a PhD, but has a degree of Master with sufficient industrial experience, acceptable for professional registration, such a candidate, who should also show evidence of research potential, may be considered.

(iv) **Senior Lecturer:**
Candidates should normally possess a Ph.D. Degree and/or research experience and/or industrial experience. Such candidates should also have six (6) scholarly publications, four (4) of which must be journal articles. The other two (2) may be referred Proceedings or Technical Reports. The candidates should also be registered with their professional bodies (COREN, etc.).

(v) **Associate Professor:**
Candidates should normally possess a Ph.D. Degree with teaching and research experience. Such candidates should possess the ability of providing academic leadership in addition to having a considerable number of referred journal publications (not less than 12), that must be assessed externally.

(vi) **Professor:**
Candidates should normally possess a Ph.D. Degree, with teaching and research experience. They should have demonstrable ability to provide virile academic leadership in addition to a considerable number of referred journal articles that must be externally assessed.

8.2. **Technical Staff:**
The services of very competent senior technical staff are required to run laboratories, workshop/studios, and maintain teaching and research equipment. The requisite qualification and experience are presented below for each category of technical staff:

(b) (i) **Assistant Technical Officer:**
Candidates should possess an Ordinary National Diploma in the appropriate discipline.

(ii) **Technical Officer II/Technologist II:**
Candidates should possess a Higher National Diploma with at least two (2) years cognate experience, or a City and Guilds Certificate with at least four (4) years cognate experience.

(iii) **Senior Technical Officer/Technologists:**
As above, but with at least six (6) years and eight (8) years cognate experience as per qualification, respectively.

(iv) **Principal Technical Officer/Technologist:**
As above, but with at least eight (8) years and ten (10) years cognate experience, respectively.

(v) **Assistant Chief Technical Officer/Technologist:**
As above, but with at least twelve (12) years, and fourteen (14) years cognate experience, respectively.

(vi) **Chief Technical Officer/Technologist:**
As above, but with at least fourteen (14) years and sixteen (16) years cognate experience, respectively.

9. **ACADEMIC CURRICULUM CONTENTS**

9.1. **Objectives**

a) To provide a highly motivated academic environment that fosters the academically minded to pursue further studies and research in Civil Engineering.

b) To develop manpower for the country.

To contribute to the supply of academic sound and competent professional engineers for both Nigerian Universities and the Nigerian Industries.
9.2. Introduction to Courses Offered
(a) Engineering is the application of principles of fundamental sciences, engineering, economics, computer technology, and human relations to practical situations in fields dealing with processes and equipment in which matter is treated to produce something that is beneficial to society. Training in engineering requires the provision of knowledge, skill and understanding of these principles, for the planning, optimum design, construction, operations of new processes with due consideration to the environment, expansion and or revision of existing ones and assessment of performance of processes and equipment. It is on this premise that the program has been structured

9.2.1. 100 Level and 200 Levels: Engineering students take common courses at 100 and 200 levels with their counterparts in other Departments of the College with very minor exceptions at the 200 level.

9.2.2. 300; 400; 500 Levels: At this levels, the students take some Core Engineering courses in their respective departments in addition to relevant courses offered by the College. The detailed course structure is as presented in various sections below.

9.2.3. Course Coding: It is proposed that all courses be coded according to Department, level and semester. Thus, the Department codes are as follows:

Chemical Engineering - CHE
Civil Engineering - CVE
Computer Engineering - CPE
Electrical/Electronic Engineering - EEE
Mechanical Engineering - MEE
Petroleum Engineering - PET
Engineering and Management - GRE
Entrepreneurial Studies - ESP
University General Studies - GST

The level codes are as follows:

100 level - 1
200 level - 2
300 level - 3
400 level - 4
500 level - 5

Semester codes are as follows:

First Semester - 1 or any odd number
Second Semester - 2 or any even number

For example, the full course code for a 200 level course, offered by Chemical Engineering in the first semester, is of the form: CVE 241 where, 2 represents the level, 4 the number assigned by the Department to track the course, and 1 represents the semester. Should the same course be available in the second semester, the course code would be CVE242 where the ‘2’ at the end of the figure signifies the second semester.

9.2.4. COURSE CONTENTS (SYLABUS)
Course Content Specifications for all courses in the department of civil engineering is placed at the end of the course schedule table below.
9.2.4.1. Benchmark Minimum Academic Standards of the NUC (BMAS)
All levels at all levels (100 - 200 level) are in line with the Benchmark Minimum Academic Standards of the NUC (BMAS), as outlined/detailed:

9.3. COURSE STRUCTURES/DESCRIPTIONS

9.3.1. 100 LEVEL COURSE STRUCTURE/ CONTENTS

9.3.1.1. 100 Level Common Courses:
The common 100 Level courses are: Mathematics; Physics; Chemistry; General Studies, and Laboratory Practicals. The course structure, showing the number of hours allocated for lectures, tutorials and practical and the credits assigned to each course is presented below.

9.3.1.2. 100 LEVEL COURSE STRUCTURE/ CONTENTS AND DESCRIPTION

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester S/No</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
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**TOTAL CREDIT UNITS** 27  
**GRAND TOTAL CREDIT UNITS** 48

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

### 9.3.1.3.100 LEVEL COURSE CONTENTS/DESCRIPTION

#### MTH111 – Algebra And Trigonometry  
3 Credits


#### MTH112: Calculus/Real Analyses -  
3 Credits

CHM111 – General Chemistry I  
3 Credits

The states of matter:
Gases: Gas Law. The general gas equation.
Liquids and Solids – Introduction to lattice structure, Isomorphism. Giant molecules.
Introduction to the Periodic Table. Hydrogen and hydride Chemistry of Groups 0, I, II elements. Acid-Base properties of oxides.

CHM112: Organic Chemistry I  
2 Credits
(a) General Principles of Organic Chemistry:
(ii) General procedure for isolation of purification of organic compounds.
(iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
(iv) Isomerism. Structural isomerism and stereo isomerism.

(b) Non-Polar Functional Group Chemistry:
(i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
(ii) Alkenes – Structure and physical properties. Reaction: addition (of H₂, X₂, HX, H₂O, O₃), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
(iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of H₂, X₂, HX, H₂, H₂O, etc. Test for Alkynes.
(iv) Benzene: Structure and aromaticity of benzene. Introduction to electrophillic.
(v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
(vi) Coal tar chemistry, origin, production, important components and uses.

CHM 113: Practical Organic Chemistry:
Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

PHY111: Mechanics, and Properties of Matter -  
2 Credits
Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

**PHY113: Thermal Physics**  
Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan’s law.

Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro’s number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids.

Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.

Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

**GST111: Communication in English**  
2 Credits

Effective communication and writing in English language skills, writing of essay answers comprehension sentence construction, outlines and paragraphs collection and organization of materials and logical presentation, Punctuation.

The course will consolidate the fundamentals of English Language including the following: Nouns and Pronouns (types and features), Verbs and Tense (varieties), Adjectives and Adverbs (varieties, features and functions), Conjunctions, Prepositions, Interjections, Clauses (types) and Sentences (types). Language skills of listening, speaking, reading and writing (choosing topics for writing, planning, assembling and organizing points, outline preparation, factors of unity, coherence, context, originality, mechanical accuracy and paragraph development). Forms of writing including narrative, descriptive, expository, argumentative, summary, correspondences and speech writing. Use of library including cataloguing systems, locating books/journals, lending/borrowing reference materials, indexing.

**GST112: Logic, Philosophy and Human Existence**

A brief survey of the main branches of Philosophy. Symbolic logic, special symbols in symbolic logic-conjunction, negation affirmation, disjunction.

**GST113: Nigerian History and Culture**  
2 Credits

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian’s perception of his world; culture areas of Nigeria and their characteristics; evolution of Nigeria as a political unit, Indigene/settler phenomenon, concept of trade, economic self-reliance; social justice; individual and national development; norms and values; Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

Principles of good and bad, right and wrong; moral implications of our choices; judgment and actions; morality versus expediency; the role of conscience; moral obligations of citizen

**MTH121: Vectors, Geometry And Statistics:**  
3 Credits

(a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and
normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.


MTH122: Differential Equations And Dynamics  3 Credits
(a) Differential Equations: Formation of differential equation of 1st degree and 1st order. Variables, separable, exact, homogenous and linear, differential equations of the 2nd order with constant coefficients.
(c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

CHM121: General Chemistry II 3 Credits

CHM122 Practical Chemistry II  2 Credits
Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA,111B,IV. Thermal analysis of carboxylic etc.

CHM123: Organic Chemistry II  2 Credits
(a) Polar Functional Group Chemistry:

(ii) Carboxyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollén’s reagent, Fehling’s solution, benedict’s solution, Lodoform reaction; with HCN, H\(\text{HSO}_3\); alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.


(iv) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by – OOCR-X –OR, -NR. Reaction with water, alcohols, ammonia and amines. LIACH\(_4\), Test for esters.


(b) Miscellaneous Topics:


(ii) Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.

(iii) Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.

(iv) Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandens definition, importance, examples.

**PHY100: Practical Physics**  
2 Credits  
Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

**PHY121: Electromagnetism**  
2 Credits  
Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.

Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchhoff’s laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances. Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.

Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.

Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through passes at low pressure, cathode rays; photo-electricity.
PHY 122 Modern Physics  
Structure of atom: Atomic theory, X-rays, Planck Quantum theory; Wave-particle nature of matter: scattering experiment of Geiger and Marsuen, Rutherford atom model, Bohr’s atom model. Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation. Prerequisite: O-Level or WASC.

PHY 123: Vibrations, Waves And Optics:  
Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations. Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction; Dispersion by prisms; relations between colour and wavelength; spectra.

GST 121: Use of Library, Study Skills and ICT  
Brief history of libraries, library and education, University libraries and other types of libraries, study skills (reference services). Types of library materials, using library resources including e-learning, e-materials; etc. Understanding library catalogues (card, OPAC, etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, Hardware technology software technology, input devices, software technology, input devices, storage devices, output devices, communication and internet services, word processing skills (typing, etc).

GST122 Communication in English  
Logical presentation of papers, phonetics, Instruction on lexis, art of public speaking and oral communication figures of speech, précis, Report writing.

GST123: Communication in French  
Introduction to French, Alphabets and numeric for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

IUTS 102: Igbinedion University Industrial Training Scheme  
A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.

9.3.2. 200 LEVEL COURSE STRUCTURE/CONTENT/DESCRIPTION  
9.3.2.1. 200 LEVEL COMMON COURSES  
200 level Civil Engineering Students do all the 200 level courses prescribed by the College and the University (as described below), excepting: CHE 212 Physical Chemistry II (done only by the Chemical Engineering Students; and CPE 212, done by Computer Engineering Students only).

9.3.2.2. 200 LEVEL COURSE STRUCTURE  
FIRST SEMESTER

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**TOTAL CREDIT UNITS**: 22

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**TOTAL CREDIT UNITS**: 22

**GRAND TOTAL CREDIT UNITS**: 45

**Note**: L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

**9.3.2.3. 200 LEVEL COURSE STRUCTURE / DESCRIPTION**

**EMA201: Engineering Mathematics I** (3 Credits)


(b) Vector: Force, moment and angular velocity. Vector differentiation and integration.
Linear Algebra: Linear spaces, algebra of determinants and matrices.

Calculus: Differentiations and applications. The mean value theorem and its applications. Extension of mean value theorem. Taylor and Maclaurin formulae, Liebnitz’s theorem. (Application to the solution of differential equations with variable coefficients), de L’Hospital’s. Partial derivatives of functions of two and more variables.

ECP201: Computer and Computing 2 Credits
Program design using pseudo-code/ Flowchart extensive examples and exercises in solving engineering problems. Computer programming using structure basic such as QBASIC symbols, keywords, identifiers, data types, operators, statements, flow of control, arrays, functions and procedures. Extensive examples in solving engineering problems using QBASIC. Use of Visual Programming such as visual Basic in solving Engineering problems.

ENS211 Engineer in Society (1 Credits)
   (i) Philosophy of Science
   (vi) History of Engineering and Technology
   (vii) Safety in Engineering and Introduction to risk analysis
   (viii) The role of Engineers in nation building
   (ix) Invited lectures from professionals.

CVE211: Strength of Materials (2 Credits)
Force systems composition and resolution of forces, moment, couple, resultants of coplanar and three dimensional force systems, graphical methods in statics. Mechanical isolation of bodies, free body diagrams, conditions for equilibrium of coplanar and three dimensional force systems.
Torsion of shafts: Stresses in rotating shafts and thin rotating rings; elastic torsion of solid circular and hollow shafts; shafts of varying diameter, shafts with varying torque, compound shafts.

6.2. Introduction to Viscous Flow.
   1. Introduction to Fluid Dynamics: Mass; Energy Conservation Laws; Continuity of Flow Equations; Bernoulli’s Equation; etc.

EEE211: Electrical Engineering I (2 Credits)
MEE211: Engineering Mechanics I (2 Credits)

MEE221: Engineering Drawing I (2 Credits)


MEE 251: THERMODYNAMICS I (2 credits)

MEE271 Manufacturing Technology I 2 Credits

ELA 202: ENGINEERING LABORATORY & WORKSHOP PRACTICE I 3 CREDITS
Performing Laboratory Tests and doing workshop practice, etc.

2.1. ELA 201 COURSE CONTENTS OUTLINES

2.1.1. CIVIL LABORATORY & WORKSHOP
2.1.2. BONDING
2.1.3. STRETCHER BOND
2.1.4. ENGLISH BOND
2.1.5. FLEMISH BOND
2.1.6. PLASTERING
2.1.7. PLUMBING/SEWAGE SYSTEMS

OTHER ENGINEERING LABS & WORKSHOPS
2.1.8. MECHANICAL LABORATORY AND WORKSHOP
2.1.9. CHEMICAL LABORATORY AND WORKSHOP
2.1.10. COMPUTER LABORATORY AND WORKSHOP
2.1.11. PETROLEUM LABORATORY AND WORKSHOP

GST 211: History and Philosophy of Science 2 Credits units
Man-his origin and nature, man and his cosmic environment, scientific methodology, Science and technology in the society and service of man, Renewable and non-renewable resources-man and his energy resources, Environmental effects of chemical plastics, textiles, wastes and other material, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies.

SECOND SEMESTER 200 LEVEL COURSES
EMA202: Engineering Mathematics II 3 Credits
(a) Further Integrations: Reduction formulae
(b) Differential Equations –
(i) General Review: Exact differential equations. Simple applications in geometry, mechanics, chemical reactions and heat flow.
(a) Mechanical and Electrical Oscillations: Oscillations of damped and un-damped mechanical systems. Electric circuit theory. Resonance.
(b) Numerical Methods: Introduction to numerical computation. Solution of non-linear equations. Solution of simultaneous linear equations-both direct and iterative schemes. Finite difference operators. Introduction to linear programming (Graphical solution).

CPE 204: IT in Engineering 2 Credits
Historical developments of Computers, External Components of computers, Characteristics of a computer, types and classification of hardware and software. Word processing : principle of operation, application, demonstration and practical hand- on exercises in word processing using a popular word processing package. Spread sheet : principle of operation, application, demonstration and practical hand- on exercises in the use of spread sheet to solve problems. Presentation software packages: principle of operation, application, demonstration and practical hand- on exercises in the use of popular report presentation package (such as power point). Mini project to test proficiency in the use of software packages. Database management Package: : principle of operation, application, demonstration and specific functions/toolboxes to solve specific engineering problems.
CVE 212: Strength of Materials II 2 Credits

1. Advanced Topics in Shearing Forces and Bending Moments:
Relationship between loading intensity, shearing force and bending moment. Shearing force and bending moment diagrams

2. Geometric properties of sections.
Statically moment of plane areas, moment of inertia of plane areas. Centroidal distances of plane areas, parallel axis theorem, Built-up or composite sections, etc.

Derivation of standard equation for pure elastic bending (flexures or elastic curve); Bending stress and bending moment; complimentary shear stress.

4. Determination of slopes and deflection of Elastic curves of beams by such methods as
   4.2. Macaulay’s Method
   4.3. Moment Area method
   4.4. Conjugate Beam method.
   4.5. Principle of Super-position
   4.6. Maxwell’s principle of reciprocal deflection.

5. Strain energy methods (Principle of Virtual work)
For uniform and non-uniform bars subjected to simple tension, bending, shear and torsion.

CVE 222: Elements of Architecture 2 Credits

The aim is to introduce students to 3-dimensional awareness and graphic communication through techniques and exercises in space forms. The free-hand drawing course taught in a classroom setting, where the drawing medium is restricted to pencils and pens. Subject matters on all include still life compositions, building and natural settings, projected slides, etc. Attention will be given to defining forms in terms of shades, light and shadow. Basic principles of dealing with orthographic projections, isometric, diametric and perspective projections. Techniques for representing human beings, trees and landscape and other symbols and representations for building elements. Construction of common mathematical curves. Techniques for graduation value distinction in flat and curved surfaces.

CVE 262: Fluid Mechanics I 2 Credits

2. Elements of Fluid Statics: Fluid (water, liquid, air); Density; Pressure; Surface Tension; Viscosity; Compressibility, etc.

3. Basic Flow Measuring Devices: Orifices; Weir; V-Notch; Pitot Tube; Venturi Meter, Parshall Flume; Prandtl Tube, etc

4. Static Pressure/Head and Pressure Gauges:
   4.1. Pressure Gauges: U-Tube Manometer; Barometer; etc.
   4.1.1. Static Pressure and Head:

5. Hydro – Static Forces Exerted on Vessel Surfaces by Incompressible Fluid: Hydrostatic force; pressure and head; hydrostatic paradox; Hydraulic Jack, etc

6. Properties of Fluid Section and Buoyancy: Properties of sections; Center of Area; Mass; Volume; Gravity. Buoyancy and Archimedes Principle.

7. Introduction to Basic Fluid Flow
   7.1. Basics and Types of Flow:
       (i) Streamlines and Stream Tube;
(ii) One-Directional Flow; Two-Directional Flow and Three-Directional Flow.

(iii) Types of Flow: Uniform/Non-Uniform Flow; Steady/Non-Steady Flow; Laminar and Turbulent Flow; etc.

**EEE212: Electrical Engineering II  2 Credits**


**MEE212: Engineering Mechanics II  2 Credits**

Position, reference frames and coordinates. Types of coordinates. Scalar and vector functions, function differentiation. Derivatives of vectors and moving references, frames, velocities and accelerations, relative motion.

Kinetics of Rigid Bodies: Translation and rotation about a fixed axis for rigid bodies, general two dimensional motion of rigid bodies, vectoral and no-vectoral techniques, impulse, momentum, energy methods, moments of inertia, equivalent mass and moment of inertia. Simple cases of equivalent dynamic systems. Kinematics of simple harmonic motion. Simple harmonic motion.

**MEE242: Materials Science  2 Credits**


Alloy Theory: A simplified introduction to alloy theory illustrated by the Pb-Sn and Fe-C system. Application to industrially important alloys.


Non-Metallic Materials: Non-metallic materials and their properties (glass, natural and synthetic rubber, plastics, ceramics and wood).

**GST 222: Peace Studies and Conflict Resolution  2 Credit units**

Basic concepts in peace studies and conflict resolution, Peace as vehicle of unity and development, conflict issues, types of conflict, Ethnic/religious/political/economic conflicts, Root causes of conflict and violence in Africa, Indigene/settler phenomenon, peace – building, management of conflict and security. Element of peace studies and conflict resolution, Developing a culture of peace, peace mediation and peace keeping, Alternative Dispute Resolution(ADR), Dialogue/arbitration in conflict resolution, Role of international organizations in conflict resolution, e.g., ECWOAS, African Union, United Nations, etc

**EPS 223: Introduction to Entrepreneurial Skills  2 Credits**

This course is the theory aspect of the programme with these components:
Introduction
I. Entrepreneur in Global Perspective
II. Feasibility Study
III. The Business Plan

Part 1: Business Strategy
I. Strategy management and planning for small business and service organization
II. Forms of business ownerships products and service organization
III. Franchise – business right without ownership: Is it for you?

Part 2: Accounting and Finance
I. Accounting and finance: The language of Business
II. Financial Recording for small business and service organization
III. Profit – planning and cash flow management
IV. Preparing effective loan and investment package
V. Identifying potential source of fund
VI. Tax preparation for small business and service organizations.

Part 3: Physical Planning and ICT
I. Where to locate your business and service organization
II. Layout and physical facilities: Production Vs service organizations
III. Purchasing, Inventory, Crime Control and risk management
IV. ICT for small business and service organizations.

Part 4: Management and Marketing
I. Basic law for business ownership and service organization
II. Directing and motivating your employees
III. Government regulation and assistance
IV. Successful management fundamentals
V. Pricing for profit and revenue
VI. Affordable advertising and promotion.

ELA 202: ENGINEERING LABORATORY & WORKSHOP PRACTICEII 3 CREDITS
Credits
Performing Laboratory Tests and doing workshop practice, etc.

2. ELA 202: ENGINEERING LABORATORY & WORKSHOP II  3 CREDITS
2.2. ELA 202 COURSE CONTENTS OUTLINES
2.2.1. CIVIL ENG LAB & WORKSHOP
2.2.2. WOOD WORK
2.2.3. WOOD TYPE
2.2.4. WOOD DEFFECTS
2.2.5. JOINTS
2.2.6. TOOLS FOR WOODWORK

OTHER ENGINEERING LABS & WORKSHOPS
2.2.7. MECHANICAL LABORATORY AND WORKSHOP
2.2.8. CHEMICAL LABORATORY AND WORKSHOP
2.2.9. COMPUTER LABORATORY AND WORKSHOP
2.2.10. PETROLEUM LABORATORY AND WORKSHOP
IUITS 202: Igbinedion University Industrial Training Scheme II  1 Credit
A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. They also write examination.

9.3.3. 300 LEVEL COURSE STRUCTURE/CONTENT/DESCRIPTION

9.3.3.1. COMMON COURSES FOR 300 Level

EMA301: Engineering Mathematics III 3 Credits
a) Linear Algebra: n-dimensional vectors, addition and scalar multiplication. Linear dependence and independence of set vectors. Matrices: operations of addition, scalar multiplication and product; determinants and their properties; sub-matrices and rank; inverse of a matrix. Theory of a system of linear equations, linear transformation and matrices; Eigenvalues and Eigenvectors of a matrix; Eigenvalues of Hermitian, skew Hermitian and unitary matrices; bilinear quadratic forms.
b) Analytic geometry: Plane polar coordinates, coordinate transformation. Solid geometry and spheres and quadric surface. Spherical polar and cylindrical polar coordinates.
c) Functions of several variables: Mean value theorem of function of several variables, maxima and minima, differentiation under the sign of integration. Jacobians.

EMA302: Engineering Mathematics IV 3 Credits
b) Gamma, Beta and probability function (emphasis rather on the applications).
c) Differential Equation: Equations of the form y” – f(x, y’). Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation and Bessel functions of first kind; their properties and introduction to applications.

GRE 331: Research Methodology and Technical Report Writing 2 Credits
Principles of communication. Parts of technical reports: Abstract, introduction, Main body. Conclusions and Recommendations, Tables, Figures, Graphs, Illustration, References,
Appendices. Writing the first draft. Revising the first draft: Content and structure. Audiences Scientific and Technical Prose: Spelling and Scientific Terminology using numbers and symbols.

Data: Statistical analysis of data and display. Software support for various writing and graphic tasks. Use of Microsoft power point.

Preparation of curricula vitae, research grant proposals, short talks and poster, and feasibility report. Writing a thesis employed in marine environment.

### 300 LEVEL COURSE STRUCTURE

#### FIRST SEMESTER

<table>
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<th>Semester</th>
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#### SECOND SEMESTER

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**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.
FIRST SEMESTER

CVE 311: Theory of Structures II (3 Credits)

1. Columns: Short columns (struts); Intermediate columns and slender columns. Fully restrained, partially restrained and unrestrained columns.
   1.1. Analysis of Columns: By Euler’s Theoretical Formulae and Empirical Methods such as: Gordon Rankine’s formula; Johnson’s Parabolic and Straight line formula.
   1.2. Loading and Bending of Columns: Symmetrical and eccentric loading of columns and bending about one axis (uni-axial bending) and bending about two axes (tri-axial bending).

2. Analysis of Trusses and Frames.
   2.1. Determination of degree of indeterminacy or redundancy of trusses and frames.
   2.2. Analysis of Perfect or Statically Determinate Trusses and Frames.

3. Advanced Treatment of Elastic Bending Theory of Beams: Shear center; unsymmetrical bending; curved beams.

4. Biaxial and Tri-axial state of stress: transformation of stresses; Mohr’s circle;

5. Failure Theories.

6. Creep, Fatigue, Fracture and Stress concentration.

7. Springs.

CVE 321: Civil Engineering Hydrology I (2 Credits)

CVE 361: Fluid Mechanics 1 (2 Credits)
Fundamental notions and definitions: Continuum property, density, pressure, specific volume, surface tension, viscous compressibility, etc.

Fluid Statics: Hydrostatic forces on submerged surfaces in non-compressible fluid, pressure variation in static fluid, floating, stability considerations of floating bodies.

Dynamics of Fluid Flow: Systems and control volume approach to the basic and subsidiary laws for continuous media leading to the development of conservation equation of mass and momentum. Euler’s equation, Bernoulli’s equation, introduction to incompressible viscous flow of Newtonian fluids in pipes – pressure drop and shear stress in pipe flows, velocity distribution, Reynolds number and its significance.
Dimensional Analysis: Philosophy of dimensional analysis in engineering, dimensional homogeneity, similitude, bucking hands, Pi – Theorem, important dimensionless groups in engineering.

Flow Measurements: Flow meters and Flow measurement, head flow meters in closed and open conduits, mechanical and electromagnetic flow meters, scale errors in flow measurement.

CVE 331: BUILDING TECHNOLOGY 2 Credits

1. General Introduction

1.2. Types of Building Structures:
1.2.1. Residential Buildings: - Storey buildings; duplex; special residential buildings
1.2.2. Institutional Buildings: such as schools; hospitals; hotels; churches; mosques; central bank; royal palaces; special residential buildings; etc.
1.2.3. Commercial Buildings: such as shopping malls; light weight ware houses; garages; commercial banks
1.2.4. Industrial Buildings: such as: manufacturing building structures; heavy weight ware houses

2. Structural Elements of Buildings and Basics of Building Construction
2.1. Building Orientation with respect to conducive living conditions and other building functions such as: Sunlight; lighting; ventilation, wind direction (windward and leeward sides); aesthetics purposes; etc
2.1.2. Building right of way: such percentage built up areas; building lines; local bye laws; water ways; electrical power lines; etc.

2.2. Introduction to Basic Structural Elements of Buildings: such as slabs; beams; columns; foundations types – strip (wall) footing; pad footing; mat footing; piles, etc;
   **Floor types:** earth floor; concrete floor; wooden floor; plastering
   **Floor Surface**finishings with such tile types as: terrazzo; mosaics; ceramics; duroflex (PVC); etc
   **Wall:** types; rendering or plastering; painting; other finishings;
   **Blocks and Bricks and Bonding (block works)**
   **Roof types:** pitched roofs; flat roofs; slab roofs; trusses such as simple trusses; Howe trusses; girders etc
   **Cladding and Roofing Sheets;**
   **Ceiling:** noggins; ceiling boards; fascia board; etc

2.3. Aspects of Building Construction
2.3.1. Clearing Building Project Sites such as bulldozers; manual labour; disposals etc
2.3.2. Preliminary site investigation and tests
2.3.3. Setting out of buildings with such instruments as: profiles; set squares; right angles; pegs; theodolites, etc

2.3.4. Earthworks: excavation and disposal for the Substructure; Soil stabilization; haulage of appropriate materials from approved borrow pits; filling (embankment); compacting; etc
2.3.5. Levelling; Preparation and Blinding of the Substructure Soil Surface with plain concrete (grade 10)

2.4. Concrete works: making foundation; DPC; making formworks and casting or constructing such structural elements as columns; beam soffits; slabs; walls; floors; roofs; finishing; etc.

CVE 361: Fluid Mechanics 1 (2 Credits)
Fundamental notions and definitions: Continuum property, density, pressure, specific volume, surface tension, viscous compressibility, etc.

Fluid Statics: Hydrostatic forces on submerged surfaces in non-compressible fluid, pressure variation in static fluid, floating, stability considerations of floating bodies.

Dynamics of Fluid Flow: Systems and control volume approach to the basic and subsidiary laws for continuous media leading to the development of conservation equation of mass and momentum. Euler’s equation, Bernoulli’s equation, introduction to incompressible viscous flow of Newtonian fluids in pipes – pressure drop and shear stress in pipe flows, velocity distribution, Reynolds number and its significance.

Dimensional Analysis: Philosophy of dimensional analysis in engineering, dimensional homogeneity, similitude, bucking hands, Pi – Theorem, important dimensionless groups in engineering.

Flow Measurements: Flow meters and Flow measurement, head flow meters in closed and open conduits, mechanical and electromagnetic flow meters, scale errors in flow measurement.

**CVE 351: SOIL MECHANICS**

**2 Credits**

1. **Introduction:**
   1.1. Definition(s) of Soil:
       - Civil Engineer’s definition of soil; Geologist definition of soil; Agriculturalist soil definition.
   1.2. Nature and Origin of Soil and Rocks:
       - Mineral content of soil; common types of soils: clay, silt, loamy soil, sand, gravel, etc.

2. **Engineering Properties of Soil:**
   2.1. Volumetric Properties of Soil: Void ratio (e); porosity (n); degree of saturation (Sr).
   2.2. Densities and Water Contents of Soil:
       2.2.1. Soil Densities: Density (e) and Unit weight; Bulk unit weight and density; Dry unit weight and density, specific gravity of soil particle (Gs). Relative Density (R.D.)
       2.2.2. Moisture Content (W):
           - Laboratory tests for moisture content; relationship between moisture content; density; specific gravity, and degree of saturation; cone penetration test.

3. **Consistency Limits or Index Tests of Soils:**
   - Shrinkage Limit (SL); liquid limit (L. L) and liquidity index (IL.); plastic limit (P.L.) and plasticity index (Pl.).

4. **Soil Classification (Grading):**
   (i) General Basis for field identification and classification of soils.
   (ii) Laboratory and in situ classification of soil.
   (iii) Casagrande soil classification system (GW-SW)
       - Particle size Distribution/Gradation: sieve analysis. Effective size ($D_{10}$), uniformity coefficient (U.C.).
       - Hydrometer Tests and Analysis for very fine soils.

5. **Shear Strength of Soils:**
   - Laboratory testing for shear strength (shear box test); soil friction and cohesion; Coulomb’s Law of soil shear strength; pure pressure; Mohr’s circle diagram and principal plane for soil; soil strength envelopes.

6. **Soil Water, Permeability and Flow:**
   (i) Flow of water through soils and Darcy’s Law; coefficient of permeability (K).
   (ii) Relationship between permeability and other soil physical properties.
Graphical solution of seepage problems – Flow nets, Flow lines, equipment lines, Hydraulic gradient; seepage forces.

7. Earth Pressure:
Active and passive earth pressure; surcharge loads and overburden loads, etc. Retaining walls.

CVE 341: Engineering Geology I (3 credits)
(i) Introduction: Definition, scope and subdivision of geology.
Aspects of geology and their relevance to Civil Engineering. Brief discussion on the origin and evolution of the planets, the earth and its relations to the sun, and other planets.
(ii) Structure and Composition of the Earth: The core, the mantle and the crust. Composition of the various layers. Radioactivity and magnetism of some rocks and minerals.
(iii) Geological processes:
(a) Exogenic processes (weathering and erosion)
(b) Endogenic processes (Magma – its origin, Crystallization. Differential and solidification into rocks, earthquakes, volcanoes, rifting and continental drifts).
(iv) Geotectonic Processes:
- folding, faulting, joining and rifting
- isostasy, changes in crustal sea levels, causes and effects
- transgression and regression
- tectonic and sedimentation


EPS 311: Introduction to Entrepreneurship Studies 2 Credits
This is the practical part of the programme, where students should be exposed to live ventures. This course is in two folds:
[A]. Theoretical bits to prepare students for the basics of the identified micro-business and industries within the university locality or nearby environs. (We propose the first four weeks of the 1st Semester).
[B]. The practical bits. This would be done in three different stages:
   I. Demonstrations/Exhibitions.
   II. Excursions for students, to visit owner – operated businesses – within the locality, neighboring states – including national and international corporations where possible; such as Technology Incubation Centre (TIC) located in Benin City and;
   III. Mentoring scheme, in which mentors from within the university locality and neighboring communities would be identified, contacted and registered as a pool of counselors, to whom graduating students, who wish to participate in the scheme would go for mentoring.

Some of the ventures to be focused upon would be tailored along students’ primary courses of studies. These would include, but not limited to:
- Owning/management your clinic/diagnostic laboratory/law firm.
- Soap/detergent/tooth brushes and toothpaste making firm
- Making of sanitary wares
- Glassware production/ceramic production
- Animal husbandry
• Dyeing/textile making  
• Brewing  
• Table water making factories  
• Plumbing  
• Vegetable oil and salt extraction factories  
• Fisheries

ELA 301: CIVIL ENGINEERING LABORATORY & WORKSHOP III  3 Credits  
Laboratory investigations and report submission for selected experiments in Engineering materials and hydraulics.

3.1. ELA 301 COURSE CONTENTS OUTLINES
I. STRUCTURAL UNIT  
3.1.1. NO.1: DETERMINATION OF PRACTICAL SIZE OF AGGREGATE (SIEVE ANALYSIS)  
3.1.2. NO.1: SETTING TIME OF CEMENT  
3.1.3. NO.1: AGGREGATE CRUSHING VALUE

III. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT  
3.1.4. NO.4: CHAIN SURVEYING

III. GEOTECHNICAL & HIGHWAY UNIT  
3.1.5. NO. 5: MOISTURE CONTENT TEST  
3.1.6. NO. 6: GRAIN SIZE ANALYSIS  
3.1.7. NO. 7: SPECIFIC GRAVITY TEST

IV. WATER RESOURCES AND ENVIRONMENTAL UNIT  
3.1.8. NO.8: PREPARATION OF REAGENTS AND SAMPLE SOLUTION  
3.1.9. NO.9: SOLID DETERMINATION  
3.1.10. NO10: DETERMINATION OF COLOUR OF WATER  
3.1.11. NO.11: DETERMINATION OF TASTE IN WATER SAMPLE  
3.1.12. NO.12: EVALUATION OF ODOR USING THE THRESHOLD ODOR NUMBER  
3.1.13. NO.13: MEASUREMENT OF WATER PH SAMPLE  
3.1.14. NO.14: SEDIMENTATION DEMONSTRATION  
3.1.15. NO.15: STUDIES OF VARIOUS FUNCTIONS OF SOUND METERS  
3.1.16. NO.16: UNSTEADY FLOW IN SURGE CHAMBER  
3.1.17. NO.17: TRANSITION OF LAMINAR

SECOND SEMESTER 300 LEVEL COURSES  
CVE 312: CIVIL ENGINEERING (2 Credits)  
Section A: Timber / Wood Technology  

1.1. (a) Methods for efficient utilization of saw dust generated in saw mill in Okada and environs.  
1.1. (b) Methods for efficient use of charcoal being wasted in saw mill industry.  
1.1. (c) Problems caused by timber logging activities in Okada and environs.  
1.1. (d) Problems militating against saw mill industry in Okada and environs.  
1.2. Two Main Botanical Classification or Grouping of Timber  
1.2 (a) Types of soft wood and their local names as well as their uses.
1.2 (b). Types of hard wood and their local names as well as their uses.

1.3. Defects of Timber

1.3.1. Enemies of timber.

1.4. Types of wood preservatives

1.5. Seasoning of timber.

Section B: Admixtures

2.1. (a) Types and uses of admixtures.

2.2. Bonding Admixtures.

Section C: Cement Technology

3.1. Manufacturing or production process of Ordinary Portland Cement.

3.2. Basic chemical constituent materials of Ordinary Portland Cement.

3.3. Cement manufacturing industry in Nigeria and where they are located.

3.4. Types of cement and their uses and where they are suitably used.

3.5. Properties of cement:

Section D: AGGREGATES

4.1. Types of Aggregate and three (3) main classes of aggregates.

4.2. Shapes of aggregates.

4.3. Six (6) surface texture of aggregates.


4.4.1. Sieve Analysis for grading of Crushed Aggregate Sizes. Determination of cumulative percentage aggregate retained; passing in each sieve.

(a) Determination of cumulative percentage aggregate in each sieve.

(b) Plotting of BS Sieve Aggregate size against cumulative percentage.

4.4.2. Mean equivalent diameter.

4.4.3. Determination of Aggregate Grading Modulus; G.

4.5. Types of destructive tests for hardened concrete.

Section E: Concrete Technology

5.1. Types of polymer concrete and their properties.

5.2. Environmental factors which influence workability of fresh concrete.

5.3. Methods of Concrete Mix Design (Proportions)

5.3.1. Batching by volume; (b) Batching by weight; (c) Quartering.

5.3.2. Water - cement ratio.

5.4. Properties of Fresh Concrete: (a) Consistency; (b) Mobility; (c) Compactibility...

5.5. Tests (such as Slump Test; etc) commonly used for determining quality or workability of fresh concrete.

5.6. Factors which affect workability of fresh concrete.

5.7. Weakness or problems which take place in fresh concrete

5.8. Chemicals which attack concrete

5.9. Estimation of thermal stress, strain and contraction and elongation in concrete structures.

5.10. Types of equipment used for non-destructive tests of hardened concrete.

5.11. Determination of mean concrete cube compressive strength; fcm (N/mm²); standard deviation. compressive strength (SD) and characteristic concrete cube compressive strength; fcu (N/mm²).

5.12. Concrete Mix Design and Quality Control.

Section F: Concrete Block
6.2. Types of concrete block; and Work sizes of concrete block.
6.3. Difference between concrete block and clay brick.
6.4. Manufacturing or Production Processes of Concrete Block.
6.5. Properties of Concrete Block.
6.6. Determination of: (a) Total U-value in thermal conductivity of concrete block and bricks and its use in building design and construction; (b) Total Thermal Resistance; (R); and (c) Total Thermal Transmittance (U).

SECTION G: Engineering Bricks: Clay and Calcium Silicate Bricks
7.1. Constituent materials of: (a) Claybrick; and (b) Calcium silicate brick.
7.2. Types of clay (called Alumino-silicate clays) used in making bricks
7.3. Method or processes involved in making clay.
7.4. Work sizes of clay bricks.
7.5. Manufacturing or Production Processes of Concrete Block.
7.6. Properties of Concrete Brick.
7.6. Environmental problems which affect Bricks.

Section H: Bitumen / Asphalt Technology
8.1. Definition of Bitumen and Asphalt.
8.2. Constituent materials of Bitumen and Asphalt.
8.3. Mix Properties of Bitumen.
8.4. Mix Properties of Asphalt; and Comparison between asphalt and bitumen.
8.5. Methods of determining or measuring Dynamic Viscosity of Bitumen
8.6. Weakness of Bitumen-Aggregate Mixes (such as fatigue; fracture).
8.7.1. Penetration Test for measuring Consistency and Hardness of Bitumen.
8.7.2. Tests (such as Ring & Ball Test) used in determining “Softening Point (SP) of Bitumen.
8.7.3. Penetration Index (PI)
8.7.4. Flash Point of Bitumen (FP) and Break Point (BP) of Bitumen and Fraass Break Point” (FBP)

Section G: POLYMER / PLASTICS / CERAMIC MATERIALS
9.1. Properties and classes of main polymer materials used in civil engineering.
9.2. Classes of polymer materials used in making Trunk Water Distribution Pipes (or Mains).
9.3. Uses of Unsaturated Polymer.
9.4. Properties of polymer
9.5. Uses of ceramics.

Section H: Steel Technology

Section I: Miscellaneous Materials
11.1. Types/Uses of Tiles: Terrazo tiles; Mosaic tiles; Ceramic tiles; PVC tiles; Interlocking tiles, etc.
11.2. Isotropic and anisotropic materials.
11.3. Suitable materials that can be used for road stabilization.
11.4. Suitable construction materials for seismic prone areas.

Engr. Avemaria Matthew Eze; MNSE
CVE 322: Structural Mechanics I (3 Credits)
1. Theory and analysis of determinate structures: beams, trusses and frames structures
   theorems. Analytical and graphical methods
2. Deformation (slope and deflection) of statically determinate structures:-
   (i) unit load method; (ii) moment area method; (iii) conjugate beam method.
   (iv) Strain energy methods etc
3. Analysis of Statically Indeterminate Structures
   (i) Introduction to statically indeterminate structures.
   (ii) Analysis of simple statically indeterminate structures: continuous beams, encastre,
        propped beams, simple portal frames by such methods as Le Claypeyron’s Three Moment
        Theorem, Slope Deflection Equations; Moment Distribution Method (Hardy Cross); Modified Pin
        Method, etc.

CVE 332: Design of Steel Structures I (3 Credits)
(i) Basic Concepts and Fundamentals of design process, materials selection, building regulations and
   codes of practice. Design Codes (BS 59500; 5268)
(ii) Design philosophy, elastic design: limit state design.
(iii) Basic serviceability and economy.
(iv) Estimation of Dead load; Live Load; Design Load.
(v) Design of various structural members, namely: beams, columns, slabs, ties, struts, foundation,
    etc. Consider various shapes of structural members: Universal beams I-Sections; Joists; Universal
    Columns (H-Sections); Channel sections; Angle (L-Sections); etc; Carrying out necessary checks.
(vi) Design of Shear Connectors: Gusset plates and; bolts; rivets, connections and joints, etc.
(vii) Design of stiffeners, etc.
Laboratory tests on structural elements in Steel.
(viii) Wind Loading; Incorporating wind loading in design of structural elements such as roofs
       walls; and tall columns.

CVE 362: Fluid Mechanics II (2 Credits)
Viscous flow theory; mechanism of viscosity, equations of motions for viscous Newtonian fluids.
Navier – Stokes equation for laminar flows: simplified forms and some exact solution. Laminar
velocity distribution. Elementary channel flow. Introduction to turbulence. Some applications of
viscous flow theory; the viscometer, hydrodynamic lubrication, ideal flow theory: introduction to the
concepts of circulation, irrotationality, velocity potential and stream functions. In viscid equations in
general forms: Boundary conditions for in viscid flow, Poisson and Lap-lace equations and their
elementary solutions; Elementary flows and principle of super position. Lift and drag on cylinder.
Power Systems and mechanical equipments: Mechanical power systems, their applications and
operations. Drive requirements for: pumps, fans, machines tool cranes.

CVE 342: ENGINEERING GEOLOGY II 3 Credits
1. Stratigraphy
   o historic geology and Stratigraphy (the age of the earth, geologic aged)
   o geological time scale, measuring geological time
   o fossil records (keys to the past, the records left on rocks by fossils)
   o importance of fossils, type of fossil unconformities)
2. Introduction to the Geology of Nigeria:
   o the basement complex
   o the cretaceous and younger sedimentary rocks
3. Mineral Resources of the Earth
   - definition and physical properties of minerals
   - mineral types, fossil fuels, organic minerals, non-metallic minerals and rocks, metallic minerals
   - mineral resources of Nigeria with particular emphasis on discussion on petroleum as to its origin, physical state of the hydrocarbons, migration, accumulation and exploitation.
   - Mineral in the economy of Nigeria

CVE 372: ENGINEERING SURVEYING & GEO-INFORMATICS (2 Credits)
Introduction: Traversing – instruments for traversing, theodolite traverses, computation and adjustment of ordinary traverses. Bow ditch and transit methods, reduced bearings and whole circle bearings. Uses of hand calculators and computers writing of basic programme for traverse and levels.
Application of traverses to setting out of tunnels, pipelines, etc. Tacheometry methods for inclined line of sights. Substance heightening: study of self-reducing tachometers and electronic distance measuring equipment.
Trigonometric heightening – reciprocal and simultaneous reciprocal observations. Introduction to Photogrammetry and remote sensing. Practical work. Chain surveying exercises, compass traverses, running lines of levels and elementary sectioning and theodolite task.

ELA 302: LABORATORY & WORKSHOP PRACTICE IV 3 Credits
Laboratory investigations and report submission for selected experiments in Civil Engineering and soil Mechanics. Laboratory and course work

3.2. ELA 302: ENGINEERING LABORATORY & WORKSHOP IV 3 CREDITS
ELA 302 COURSE CONTENTS OUTLINES

I. STRUCTURAL UNIT
   3.2.1. NO.1: AGGREGATE IMPACT VALUE TEST
   3.2.2. NO.2: WORKABILITY

II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT
   3.2.3. LEVELING
   3.2.4. ELEMENTS OF SURVEY
   3.2.5. THE LEVELING STAFF
   3.2.6. PRODUCE IN LEVELING
   3.2.7. BOOKING
   3.2.8. USES OF LEVEL

III. GEOTECHNICAL & HIGHWAY UNIT
   3.2.9. NO.4: CONSISTENCY LIMIT AND INDICES
   3.2.10. INTRODUCTION
   3.2.11. DEFINITION
   3.2.12. APPARATUS AND SUPPLIES
   3.2.13. PROCEDURE
   3.2.14. LIQUID LIMIT
   3.2.15. LIQUID LIMIT (USING CONE PENETROMETER)
3.2.16. PROCEDURE
3.2.17. PLASTIC LIMIT
3.2.18. SHRINKING LIMIT
3.2.19. LINEAR SHRINKING

EPS 311 Foundation Course in Entrepreneurial Studies 2 Credits

IUTS 302: Igbinedion University Industrial Training Scheme III 1 Credit
A 3 month intensive industrial training scheme taken in engineering based establishments. Students submit and defend reports at the end of the exercise.

9.3.4. 400 LEVEL COURSE STRUCTURE/CONTENT/DESCRIPTION

9.3.4.1. COMMON 400 LEVEL COURSES

EMA401: Engineering Mathematics IV 4 Credits
(b) Integral Transforms: Laplace and Fourier transforms. Application for boundary value problems.
(c) Introduction to Non-Linear Differential Equations:
   (a) Stability of Linear systems and the phase portraits.
   (b) Long time behaviour of the solution of non-linear differential equations deduced from related linear systems.
(d) Calculus of Variation: Lagrange’s equation and applications. Hamilton’s principle and Geodesic problems (formal proofs of the related theorems will not be required). Isoperimetric problems:
   (i) Probability: Probability laws, conditional probability and dependence of events. Discrete and continuous probability distribution. The probability function; the density function and the distribution function. Expected values; moments, standard distributions, binomial, Poisson, normal.
   (c) Test of Hypotheses: Types I and II errors. Power of a test. Large sample-test concerning the mean, proportion, difference of two means and proportions.

9.3.4.2. 400 LEVEL COURSE SRTUCTURE / CONTENT
FIRST SEMESTER

<table>
<thead>
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<td>Engineering Mathematics V</td>
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<td>CVE 411</td>
<td>Structural Mechanics III</td>
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<td>CVE 421</td>
<td>Hydraulics III</td>
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<td>CVE 431</td>
<td>Design of Structures</td>
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<td>CVE 441</td>
<td>Soil Mechanics /Foundation Engineering I</td>
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<td>CVE 451</td>
<td>Highway &amp; Transportation Engineering I</td>
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<tr>
<td>CVE 461</td>
<td>Engineering Surveys And Geomatics Informatics</td>
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<tr>
<td>CVE 471</td>
<td>Civil Engineering Practice and Law</td>
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<td>CVE 481</td>
<td>Public Health Engineering I</td>
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<td>ELA 401</td>
<td>Eng Laboratory and Workshop Practice IV</td>
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**TOTAL CREDIT UNITS**

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<td>Igbinedion University Industrial Training Scheme IV</td>
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**SECOND SEMESTER**

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<td>Public Health Engineering I 2 Credits</td>
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</table>

**TOTAL CREDIT UNITS**

**GRAND TOTAL CREDIT UNITS**

**Note:** L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

### 9.3.4.3.  400 LEVEL COURSE CONTENT / DESCRIPTION

**FIRST SEMESTER**

**CVE 411: STRUCTURAL MECHANICS II (2 Credits)**

i. Indeterminate structured analysis: energy and virtual work methods, slope deflection and moment distribution methods.

ii. Flexibility and stiffness methods

iii. Elastic instability

iv. Simple plastic theory of bending, collapsed loads

v. Stress grading of timber: visual, mechanical, and electronic

**CVE 421: HYDRAULICS III (3 Credits)**


**CVE 481 PUBLIC HEALTH ENGINEERING I 2 Credits**

**CVE 481 Public Health Engineering I 2 Credits**

1. General Introduction to Wastewater Management

1.1. Types of Wastes normally generated

1.2. Impact of waste water on the environment

1.3. BOD, Dissolved Oxygen, Solubility and De-oxygenation of surface water (streams, rivers)

1.4. Water Pollution, Environmental Effects and Controls

1.5. Self Purification Capacity of Rivers and Streams

1.6. Wastewater (Effluent) Quality and Standards
2. Basic Microbiology of Waste Management:
1.1. Types of waste borne micro-organisms (bacteria, protozoa, virus, amoeba, spirogyra, algae, fungus, etc). Pathogenic microorganisms, etc.
1.2. Phases of bacterial growth
1.3. Water borne diseases and controls

3. Structure and growth of microorganisms; Sterilization and culture techniques; water use and water related diseases; Physical, chemical and biological characteristics of water and waste water – their determination and significance; Appropriate technology of water supply and treatment; coagulation; sedimentation; flocculation; filtration; disinfection; storage and distribution, etc. Appropriate technology for excreta disposal (septic tank; Imhoff Tank; WACT; pit latrines; oxidation ponds, etc).

4.0. Types of Wastes normally generated
Impact of wastewater on the environment
BOD, Dissolved Oxygen, Solubility and De-oxygenation of surface water (streams, rivers)
Water Pollution, Environmental Effects and Controls
Self Purification Capacity of Rivers and Streams
Wastewater (Effluent) Quality and Standards

5.0. Basic Microbiology of Waste Management:
Types of waste borne micro-organisms (bacteria, protozoa, virus, amoeba, spirogyra, algae, fungus, etc). Pathogenic microorganisms, etc.
  - Phases of bacterial growth
  - Water borne diseases and controls

Waste water (Sewage): Source and effects of pollution; water and effluent standards and controls.
Agents of air pollution and – Effects and controls
Management and finance of PHE systems.

Culturing Microorganisms, determining live bacteria in water, estimating BOD, TOD; COD. inhibitors, catalysts, Kinetics of Biodegradation; first and second order differential equations; etc; Principles of small scale waste water management.

CVE 431: DESIGN OF STRUCTURES II (3 Credits)
i. Limit state philosophy and design in steel; elastic and elastic moment design.
ii. Design of structural elements in steel and connections and joints
iii. Limit state philosophy and design in timber elastic methods and design in timber.
iv. Laboratory tests on structural elements in concrete, timber and steel.
v. Design of connections. Introduction to pre-stressed concrete design.

CVE 441: SOIL MECHANICS / FOUNDATION ENGINEERING I (3 Credits)
CVE 451: Highway & Transportation Engineering I (3 Credits)

1. General Introduction to Transportation
1.1. Role and importance of transportation in national and socio-economic development.
1.2. Means of transportation: (i) By Road (ii); By Railways; (iii) By Waterways; (iv) and by Airways.
2. History of Road Development. Early development of Tarmacadum, Metcaf, Highway and Macadam construction, modern development.

2.1. Types and Classification of Highway: (i) Access road; (ii) Avenue; (iii) Boulevard; (iv) Cul-de-sac; (v) Federal roads; etc. (vi) Streets; (vii) Dead end Street; etc.

2.2. Classification of roads based on functions:
(a) Trunk A Road (or Federal Road); (b) Trunk B Road (or State Road); and (c) Trunk C Road (or Local Government Road).

3. Traffic Engineering
3.1. Characteristics of traffic (speed studies, delay studies, origin and destination studies and traffic composition studies, etc.)
3.2. Traffic operations; Control and Operations.
3.3. Planning and Analysis.
3.4. Administration and Management.

4.0. Aspects of Highway Planning
4.2. Aims and Objectives of Highway Geometric Alignment.
4.3. Factors affecting safety and comfort of motorist
4.4. Use of Engineering surveying and geo-informatics in setting out road.
4.5. Horizontal Alignment.
4.5.1. Types of Road Curves.
4.5.2. Design and Setting out Road Main Curves and Transition Curves.
4.6. Analysis, design of Vertical Alignment.

5. Origin and Destination Studies, Parks, Accident Studies and Prevention Measures.

6. Highway Pavement
6.2. Highway construction materials (sub –base course; road base course; top wearing course).
6.4. Types of Road Pavement (Flexible Road Pavement and Rigid Road Pavement).
6.5. Layers and structural elements of flexible road pavement (sub-grade; sub-base; road base and top surface wearing course).
6.6. Types of Flexible Road Pavement (Bituminous and Asphalt Surfaced Roads).
6.7. Analysis and Design of Flexible Road Pavement by the following methods:
(a) CBR Method; (b) British Design Approach; etc.

7.0. Street Lighting.

8.0. Failure of Road Pavement and Maintenance.
8.1. Immediate and Remote Causes of Failure of Road Pavement.
8.2. Remedial Measures of Failure of Road Pavement.
8.3. Road Maintenance.

9.0. Establishment and Function of FERMA.

CVE 461: Engineering Survey and Geo-Informatics (3 Credits)
1. Further works on contours and contouring. Various methods of contouring – direct and indirect, contour interpolation issues of contour plans and maps.
2. Areas and Volumes. Longitudinal and cross-sectional profiling formation levels of new roads, cut and fills and various other sections. Determination of areas by approximate methods, area by double mention distance method. Volumes of earthwork – the prismoidal method, Edo – Area rule and the prismoidal correction.
3. Setting Out and Monitoring of Engineering Works:

4. Elementary Topographical Survey: Introduction to photogrammetry – aerial and ground photographs, vertical and near vertical photographs and the appropriate geometric relationship, causes of distortions, uses of aerial photographs for the production of plans – by Arundel method and by the use of photogrammetric equipment. Heighting from aerial photographs – application to contouring and profiling. Introduction to remote sensing equipment, image transmission from space, digital imagery. Compilation of topographic maps and plans from data acquired by the Landsat and SPOT satellites. Uses of photogrammetry and remote sensing to the engineers. Digital terrain modeling and applications.

5. Practical Work includes: More detailed theodolite reversing and minor triangulations, plane tablings exercises for detail survey and setting out of works; longitudinal and cross-section profiling, concept of parallax-use of parallax bar for height measurements; setting out of horizontal curves and building curves, plotting from aerial photographs and heighting and contouring.

CVE 471: Civil Engineering Practice and Law (3 Credits)

1. Civil Engineering works standard and measurements. Civil Engineering Quantities, legal, professional and ethical aspects of engineering.

1.2. Problems And Challenges Facing Consulting Services and Constructing Industry

2. Three Parties Involved in Civil Engineering Contract.
2.1 Client (Promoter)
2.1.1 Category of Client
2.2 Consultants (Design Team)
2.3 Contractor (Construction Team)
2.4 Design and Build
2.3.1 Categories of Contractor
2.5 Organizational Structure of a Company

3. Preparation of Company Prequalification File and Brochure
3.1 Technical and financial proposals

4. Types of Contract

5. BEME (Bill of Engineering Material and Evaluation) or BOQ.

6. Bidding (Tender)
6.1. Definition of Bid or Tender
6.2 Types of Tender (Bid)
6.3 Bid Evaluation Process

7. Terms Associated with Civil Engineering Contract.
7.1 Aids Memoire
7.2 Force Majeure
7.3 Variation
7.4. As-Built Drawing
7.5 Project Construction Form (PCF)
7.6 Collateral
1. 7.7 Loan and Grant
7.8. Moratorium (Grace Period), etc.

8. Agreement and Memorandum of Understanding.
10. Further Terms Connected with Civil Engineering Practice
10.1. Explanation; (list of parties involved in) and features of the following Terms Connected with Civil Engineering Practice:
(a) (i) Bill of Exchange; (ii) Draft; (iii) Check; (iv) Promissory Notes;
(v) Negotiable Instruments.
10.2. Clear Distinction between each terms listed above.
11. Engineering national and international Bodies NSE, COREN; WFE, FIDIC, etc.
12. Work and Project Implementation Schedule
13. Project Construction Process
14. Project Management
2. Job planning and control – Programme charts – bar charts critical path methods Project Evaluation & Review Technique (PERT), etc.
3. Construction machinery and equipment.
4. Applications/case study – dams, foundations, bridges, highways, industrial buildings, sewage works.

5. Legal Aspects of Civil Engineering Profession
   (a) General Introduction to Common Law and Contracts
   (b) Formation of Contract Offer and Acceptance, Consideration,
   (c) Conditions of Contract; Memoranda of Understanding and Forms of agreement
   (d) Nature of Building Contract; Terms of Tender; Standard forms; Bill of Engineering Measurement and Evaluation (Bills of Quantities).
   (e) Force Majeure and Breach of Contract

Engr. Avemaria Matthew Eze; MNSE

ELA 401: ENGINEERING LABORATORY & WORKSHOP PRACTICE V 3 CREDITS
Laboratory investigation and reports submission for selected experiments in Environmental Engineering and Transportation Engineering drawn from prescribed relevant topics in selected areas.

ELA 401 COURSE CONTENTS OUTLINES

I. STRUCTURAL UNIT
   4.1.1. NO.1 CONCRETE MIX DESIGN
   4.1.2. NO.2 COMPRESSION TEST ON CONCRETE
   4.1.3. NO.3 TENSILE STRENGTH TEST ON REINFORCEMENT
   4.1.4. NO.4 PULL TEST
   4.1.5. NO.5 TEST ON TIMBER

II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT
   4.1.6. NO.6 THEODOLITE

III. GEOTECHNICAL & HIGHWAY UNIT
   4.1.7. NO.7 IN-SITU DENSITY TEST
   4.1.8. NO.8 COMPACTION TEST
   4.1.9. NO.9 PERMEABILITY TEST
   4.1.10. NO.10 SOIL COLLECTION FOR LABORATORY ANALYSIS
4.1.12. NO.11 IDENTIFICATION OF SOIL FOR ENGINEERING PURPOSE

IV. WATER RESOURCES AND ENVIRONMENTAL UNIT
4.1.13. NO.12 ADSORPTION EQUILIBRIUM
4.1.14. NO.13 COLOUR ADSORPTION USING ACTIVATED CARBON
4.1.15. NO.14 DETERMINATION OF ACIDITY OF WATER SAMPLE
4.1.16. NO.15 DETERMINATION OF CARBONATE AND BICARBONATE IN WATER
4.1.17. NO.16 EVALUATION OF THE CONDUCTIVITY OF WATER SAMPLE
4.1.18. NO.17 DETERMINATION OF CARBON DIOXIDE IN WATER
4.1.19. NO.18 DETERMINATION OF CARBONATE AND BICARBONATE IN WATER
4.1.20. NO.19 DETERMINATION OF PHOSPHATE CONCENTRATION IN WATER
4.1.21. NO.20 TRANSMISSION LOSS OF PANEL
4.1.22. NO.21 AIR FOLLOW MEASUREMENT
4.1.23. NO.22 TURBINE CHARACTERISTICS FROM AN IMPULSE TURBINE
4.1.24. NO.23 PERFORMANCE CHARACTERISTICS OF FRANCIS TURBINE

EPS 411 Introduction to Entrepreneurial Studies 2 Credits
Art and Science of becoming a Civil Engineer; managing a small civil engineering firm and employing labourers; exploiting locally available materials for use as building materials; production of local bricks; use of cheap labour to do work; mobilizing community effort, etc

SECOND SEMESTER 400 LEVEL COURSES
IUITS 402: Igbinedion University Industrial Training Scheme IV 6 Credits
A 6-month intensive training program in engineering based establishments (SIWES). Students submit and defend reports at the end of the exercise. The also write examination. The College of engineering has elaborate and well coordinated SIWES program.

9.3.5. 500 LEVEL COURSE STRUCTURE / CONTENTS / DESCRIPTION
9.3.5.1. 500 LEVEL COMMON COURSES
GRE 501: Engineering Management I 3 Credits
Engineering Economy: Assessment of Economic Viability of engineering projects (the are capital intensive), using such methods as: Benefit Cost Ratio; Internal Rate of Return; Short term rate method, etc. Appraisal of financial implications of engineering projects before implementation.

GRE 502: Engineering Management II 3 Credits

### 9.3.5.2. 500 LEVEL COURSE STRUCTURE/CONTENTS

#### FIRST SEMESTER

<table>
<thead>
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<td>GRE 501</td>
<td>Engineering Management and Economics</td>
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<td>2.</td>
<td>CVE 511</td>
<td>Structural Mechanics III</td>
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<td>3.</td>
<td>CVE 521</td>
<td>Hydraulic Structures</td>
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<td>4.</td>
<td>CVE 531</td>
<td>Design of Structures III</td>
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<td>5.</td>
<td>CVE 541</td>
<td>Geotechnical (Foundation) Engineering</td>
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<td>CVE 551</td>
<td>Highway and Transportation Engineering I</td>
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<td>7.</td>
<td>CVE 561</td>
<td>Water Resources and Environmental Engineering I</td>
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<td>8.</td>
<td>CVE 591</td>
<td>Computer Application in Civil Engineering</td>
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<td>CVE 501</td>
<td>Final Year Engineering Project</td>
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**OPITIONAL COURSES***

|          | 10.  | CVE 533     | Advanced Structural Engineering I | |
|          | 11.  | CVE 543     | Advanced Foundation (Geotechnical) Engineering I | |
|          | 12.  | CVE 553     | Highway And Transportation Engineering II | |
|          | 13.  | CVE 563     | Advanced Water Resources and Environmental Engineering I | |
|          | 14.  | CVE 565     | Drainage and Irrigation Engineering I | |
|          |      | CVE 573     | Construction Engineering I | |

**TOTAL CREDIT UNITS**

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*Note: L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

**Note:** Only one of the optional courses can be taken.
### SECOND SEMESTER 500 LEVEL COURSES

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<td>CVE 522</td>
<td>Engineering Hydrology</td>
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<td>Design of Structures III</td>
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<td>CVE 542</td>
<td>Geotechnical (Foundation) Engineering</td>
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<td>6.</td>
<td>CVE 552</td>
<td>Highway and Transportation Engineering I</td>
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<td>7.</td>
<td>CVE 562</td>
<td>Wastewater Engineering II</td>
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<td>8.</td>
<td>CVE 502</td>
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<td>CVE 534</td>
<td>Advanced Structural Engineering II</td>
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<td>CVE 544</td>
<td>Advanced Foundation (Geotechnical) Engineering II</td>
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<td>CVE 554</td>
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<td>12.</td>
<td>CVE 564</td>
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<td>14.</td>
<td>CVE 573</td>
<td>Construction Engineering II</td>
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**TOTAL CREDIT UNITS**

**GRAND TOTAL CREDIT UNITS**

Note: L = Lecture Hours/Week; T = Tutorial Hours/Week; P = Practical Hours/Week.

*Note: Only one of the optional courses can be taken.*

**9.3.5.3. 500 LEVEL COURSE CONTENTS/DESCRIPTION**

**CVE 511: STRUCTUREL MECHANICS III**  
2 Credits
Analysis and Resolution of forces in finite elements
1. Plastic method of structural analysis
2. Stress analysis in finite elements (3-dimensinal)

**CVE 521: Hydraulic Structures**  
3 Credits
Introduction to Hydraulic Structures
Introduction to multiple purpose reserved design for flood control water supply, irrigation, recreation, navigation and erosion control. Dams; spillways; dykes; levees; coastal and harbour engineering.
CVE 531: DESIGN OF STRUCTURES 2 credits
1. Composite Design and construction in steel and reinforced concrete
2. Design of structural foundation
3. Design of structural form, tall buildings, lift shafts and shear walls, system building
4. Design projects.

CVE 541: FOUNDATION (GEOTECHNICAL) ENGINEERING 3 credits
Consolidation and Settlement: settlement of structures on soils, immediate (elastic), consolidation settlement and secondary compression. Settlement of structure on cohesionless soil using sedimentary Schmartmann’s method.
Sheer strength of Solids: General strength consideration, state of stress at a point and Mohr stress circle. Mohr Coulomb theory failure: shear tests; vane shear test, direct shear test, tri-axial test; shear strength of saturated clays, shear strength of compacted unsaturated clays, sensitivity of soils, residual strength parameters.

CVE 551: HIGHWAY & TRANSPORTATION ENGINEERING II 2 Credits
1. Aspects of Highway
   1.1. Highway Planning and Traffic Survey. Location and physical surveys and general highway network: vehicle and over characteristics; speed studies, delay studies, origin and destination studies and traffic composition studies.
3. Highway Economy
   3.1. Methods of economic analysis of highway project (Benefit-Cost Ratio; Net Present Value and Internal Rate of Return, etc)
   3.2. Annuities; Present and Future Worth; Amortization; Capital Recovery Factor, Simple and Compound Interest, etc.
   3.3. Sourcing of Fund for cost intensive highway projects.
   3.4. Financial sponsorship; loan; grants; aids or assistance from multi-national financial institutions (ADB; World Bank; EU; NEPAD).
4.0. Design of Rigid Pavement
   4.1. Pavement Structure and design of highway and airport pavements by such methods as: (a) Westergaard Equations; (b) corps for engineers method; (c) Asphalt Institute method for flexible highway pavements; (d) Portland Cement Association method for rigid airport standards.
   4.2. Standard CBR method extended to airport pavement design.
5.0. Traffic Management: Accident studies, traffic control devices – traffic signals, markings and operation arrangements of traffic signals, design of traffic signals.
6.0. Causeway and Low Cost Bridges.
7.0. Aspects of Railway Engineering.
8.0. Water Transportation Engineering.
9.0. Aspects of Airfields.
10. Needed laboratory tests are expected to be covered by the requirements stipulated in the courses of Civil Engineering materials and soil mechanics. Laboratory experiment. (Covered in ELA 501).

CVE 561: Water Resources and Environmental Engineering I  2 Credits
1. Quantity: Population forecasting and per capital consumption, water requirements for domestic, public, commercial, industrial and agricultural purposes. Water distribution networks analysis and design. Theory and laboratory evaluation for the design and operation of unit operation and processes. Application of basic principles of sanitary engineering and hydraulics to the design of water distribution and treatment systems.
2. Collection: Rainwater from roofs, determination of storage capacity for small individual supplies, surface water from reservoirs, rivers, intake structures; groundwater; transmission conduits.
5. Laboratory and course work.
6. Economy of Water Projects: Assessment of Economic Viability of water projects (which are capital intensive), using such methods as: Benefit Cost Ratio; Internal Rate of Return; Short term rate method, etc. Appraisal of financial implications of water projects before commencement of their implementation.

5.1. ELA 501: ENGINEERING LABORATORY & WORKSHOP VI  (2 CREDIT UNITS)
ELA 501 COURSE CONTENTS OUTLINES

I. STRUCTURAL UNIT
5.1.1.NO.1 FLEXURAL TEST OF CONCRETE
5.1.2.NO.2 NON DESTRUCTIVE TEST EXPERIEMT
5.1.3.NO.3 MOULDING OF SANDCRETE BLOCK

II. ENGINEERING SURVEYING AND GEO INFORMATICS UNIT
5.1.4.NO.4 PROJECT SURVEY

III. GEOTECHNICAL & HIGHWAY UNIT
5.1.5.NO.5 CALIFORNIA BEARING RATIO
5.1.6.NO.6 DIRECT SHEAR TEST
5.1.7.NO.7 TRIAXIAL COMPRESSION TEST
5.1.8.NO.8 VANE TEST
5.1.9.NO.9 DETERMINATION OF CONSOLIDATION CHARACTERISTICS
5.1.10.NO.10 UNCONFINED COMPRESSION TEST
5.1.11.NO.11 DUCTILITY TEST OF BITUMEN
5.1.12.NO.12 DETERMINATION OF FLASH AND FIRE POINT OF BITUMEN
5.1.13.NO.13 IDENTIFICATION OF BITUMINOUS MATERIALS
5.1.14.NO.14 DESIGN OF BITUMINOUS CONCRETE
5.1.15.NO.15 DEMONSTRATION OF USE OF DRILLING RIG
5.1.16.NO.16 DEMONSTRATION OF CONE PENETRATION TEST

IV. WATER RESOURCES AND ENVIRONMENTAL UNIT
5.1.17.NO.17 DETERMINATION OF CHLORINE DEMAND OF WATER
5.1.18.NO.18 DETERMINATION OF THE RESIDUAL CHLORINE OF WATER
5.1.19.NO.19 DETERMINATION OF BIOLOGICAL OXYGEN DEMAND OF WASTE WATER
5.1.20.NO.20 DETERMINATION OF CHEMICAL OXYGEN DEMAND OF WASTE WATER
5.1.21.NO.21 ANALYSIS OF DISSOLVED OXYGEN OF WASTE WATER
5.1.22.NO.22 STREETER-PHELPS MODEL OF THE DISSOLVED OXYGEN SAG CURVE
5.1.23.NO.23 EVALUATION OF POLLUTION STANDARD INDEX
5.1.24.NO.24 TO VERIFY THE INVERSE SQUARED LAW FOR SOUND
5.1.25.NO.25 APPLICATION OF CONCEPTS OF ENERGY AND MOMENTUM
5.1.26.NO. 26 DISCHARGED THROUGH WEIRS
5.1.27.NO.27 LAMINAR/TURBULENT FLOW
5.1.28.NO. 28 INVESTIGATION OF RAINFALL AND RUNOFF

CVE 501: FINAL YEAR CIVIL ENGINEERING PROJECT I (3 Credits)
Original individual student project related to a prescribed Civil Engineering problem involving, theoretical and/or experimental investigations, modeling, simulation analysis and design.

OPTIONAL COURSES / ELECTIVES

CVE 563: Advanced Water Resources and Environmental Engineering I 2 Credits
Dams, Pumps, Turbines, Impellers, Spillways; Energy Dissipators, Management of water systems, etc

CVE 533: Advanced Structural Engineering II (Option) 2 Credits
1. Feasibility study and planning of building and Civil Engineering works and construction. Structural appraisal of Buildings.
2. Design and detailing of major structural engineering works – specifications
3. Modern structural forms and methods of construction. Design projects for complete structures will be assigned in groups or individually.

CVE 543 Advanced Foundation (Geotechnical) Engineering I 2 Credits
Design of Piles and Buoyant Foundations in difficult geophysical conditions: in offshore, landslide, Seismic prone areas, etc

CVE 553 Highway and Transportation Engineering II (Option) 2 Credits
1. Highway Planning: Role and importance of transportation, modes of transportation special characteristics of road transportation, visa-a-vis others. Highway planning – road pattern, planning surveys, master plan.
2. Traffic and transportation engineering: Scope of traffic engineering; traffic characteristics, studies, traffic operation, intersections; parking facilities – highway planning, transportation planning.
4. Railway traffic analysis and design, including determination of level service and capacity of different types of railways.
Laboratory: The laboratory work may involve, depending on the nature of project chosen, some specialized traffic studies on a given area.

**CVE 565**     Drainage and Irrigation Engineering I     2 Credits
Analysis and design of surface and combined drainage systems, collection storage and pumps. Methods of overflow protection of large and Analysis and design of irrigation system. Soil-plan-water relationship Water supplies, water delivery system and water distribution system.

**CVE 573**     Construction Engineering (Option)     2 Credits
Advanced construction in difficult areas: swampy areas; offshore; hilly areas; valleys; rocky areas; construction of seaports; wharf; quays; airport; Management and administration of big companies, etc

**SECOND SEMESTER 500 LEVEL COURSES**

**CVE 512:**     STRUCTURAL MECHANICS IV (2 credits)
1. Plastic methods of structural analysis
2. Matrix method of structural analysis
3. Elastic instability
4. Continuum of plane strain, elastic flat plates and torsion, solution by series, finite difference, finite element, yield line analysis and strip methods for slabs.
5. Application of the theory of elasticity to engineering problems.
6. Application of the theory of elasticity to engineering problems. Beams having initial curvature, stresses and deformations in loaded rings, buckling and local yield, stress concentrations.
7. Laboratory test of structural elements.

**CVE 532:**     PRESTRESSED CONCRETE DESIGN     (2 Credits)
1. Philosophy, methods and systems and pre-stressing
2. Serviceability limit, state design o structural elements; cable curve fitting; losses of pre-stress, shear bond and deflection; cable extension; anchorages.
3. Ultimate limit, state design of structural elements – strength in flexure and shear.

**CVE 522:**     ENGINEERING HYDROLOGY     (2 Credits)
2. Surface water hydrology; Surface runoff and factors that affect surface runoff, catchment characteristics, hydrograph analysis; unit hydrograph and its application.
3. Reservoir and river routing: Routing equation. Application to flood routing over reservoirs and rivers.
5. Physical and Statistical Analysis related to hydrological processes.
6. Laboratory and course work

**CVE 542:**     FOUNDATION (GEOTECHNICAL) ENGINEERING     (3 Credits)
1. Bearing Capacity: Ultimate, safe and allowable bearing capacities. Bearing capacity factors; case of shallow and deep foundations, factor of safety, shape effect, footings under eccentric inclined loads.

2. Foundation: Type and choice of foundations: footings, rafts and pipe. Use and general characteristics of pipes, pile in sand, piles in clay. Negative skin friction; pile groups, bearing capacity and settlement of pile groups; efficiency of pile groups.

3. Earth Pressure: Pressure equilibrium. Active, passive and at-reset pressure, earth coefficients, computation of earth pressures using the Rankine and the Coulomb wedge theories, and Cumming’s method. Earth pressures on retaining walls. Types and analysis of retaining walls. The use of bracing as lateral support in open cuts, anchored bulkheads free earth support method of analysis.


CVE 562: WASTE WATER ENGINEERING II       2 Credits
Waste Management; which includes: Solid Waste Management; Waste Water Management and Air Pollution and Control

1. General Introduction to Wastewater Management
1.1. Types of Wastes normally generated
1.2. Impact of waste water on the environment
1.3. BOD, Dissolved Oxygen, Solubility and De-oxygenation of surface water (streams, rivers)
1.4. Water Pollution, Environmental Effects and Controls
1.5. Self Purification Capacity of Rivers and Streams
1.6. Wastewater (Effluent) Quality and Standards

2. Basic Microbiology of Waste Management:
1.1. Types of waste borne micro-organisms (bacteria, protozoa, virus, amoeba, spirogyra, algae, fungus, etc). Pathogenic microorganisms, etc.
1.2. Phases of bacterial growth
1.3. Water borne diseases and controls

3. Waste Management
3.1. General Principles of Waste Management include: Generation, Collection, Conveyance or Transportation; Treatment, Recycling and Reuse.
3.2. Methods of Wastewater (Sewage) Disposal includes:
3.2.1 Small Scale or for household: septic tank; soak away pit; Imhoff Tank; etc
3.2.2. Conventional large Scale Method: Biological Bed; (Bio-filter) or Trickling filter; Oxidation Pond; Caroussel Ditch; Pasaveer Ditch; Activated Sludge; Aerated Lagoon; etc
3.2.3. Purely Natural Method: By Stabilization Ponds whose components include: Anaerobic Pond; Facultative Pond; Maturation Pond; etc
3.3. Solid Waste Management: Different Methods of Refuse Disposal include: refuse bin; incinerator; landfill; various Composting Methods; including vermin-composting, etc

4. Air Pollution and Control, etc.
5. Problems of Waste Management in the Developing Countries, Especially in Tropics: Irregular Power Supply; Inadequate or Lack of Manpower; Lack of Appropriate Technology; Inadequate Basic Skills; Lack of Funds; Poverty; Illiteracy; etc.


CVE 552: CIVIL ENGINEERING SERVICES (PRACTICE) 2 credits
Water supply and installation. Hot water systems, sanitary appliances, methods of refuse disposal, equipment for air conditioning and ventilation, installations for industrial buildings, gases, liquids, refrigeration, vacuum cleaning, fire fighting systems, electrical and high circuits, standby power sources.

CVE 591: COMPUTER APPLICATIONS IN CIVIL ENGINEERING 2 credits
Review of Computer programming and programming languages (Fortran, Basic, etc). Computer applications in structural engineering, hydraulic engineering, hydrology, statistics, surveying, highway engineering, individual or group projects on computer solutions of specification problems.

CVE 502: CIVIL ENGINEERING PROJECT II 3 credits
Second phase of project work involving the Fabrication of the designed models, debugging, calibration, testing, data collection and analysis, and presentation of a comprehensive written report of the investigation.

OPTIONAL COURSES / ELECTIVES

CVE 564: Advanced Water Resources and Environmental Engineering II 2 Credits
Dams, Pumps, Turbines, Impellers, Spillways; Energy Dissipators, Management of water systems, etc

CVE 554: Highway and Transportation Engineering (Option) 2 Credits
Highways through special routes such as underground tunnels; gorges; valleys; Modern Railway Systems, etc

CVE 534: ADVANCED STRUCTURAL ENGINEERING II (OPTION) (3 Credits)
Theory of Plates and Shells; Design plates; shells; domes; Very tall Buildings, etc

CVE 544 Advanced Foundation (Geotechnical) Engineering II 2 Credits
Design of bases for dams; dam body; Design of Piles and Buoyant Foundations in difficult geophysical conditions: in offshore, landslide, Seismic prone areas, etc

CVE 566 Drainage and Irrigation Engineering II 2 Credits
Analysis and design of surface and combined drainage systems, collection storage and pumps. Methods of overflow protection of large and Analysis and design of irrigation system. Soil-plan-water relationship Water supplies, water delivery system and water distribution system.

CVE 574 Construction Engineering 2 Credits
Advanced construction in difficult areas: swampy areas; offshore; hilly areas; valleys; rocky areas; construction of seaports; wharf; quays; airport; Management and administration of big companies, etc

9.4. FINAL YEAR PROJECT AND THESIS
A project is extremely important part of the engineering degree programme. Although lectures and laboratory experiments are designed to improve learning process, project supplements this process by starting the student on to the path of independent thinking. The student will be required to carry out independently a small project which would enable him to develop his thought processes, creativity, problem-solving ability, initiative, and attitude to work. The nature of the project may be one or more of the following:

(a) Developing a theory for solving a problem
(b) Developing computational procedures for solving a problem
(c) Setting up an experiment for demonstrating an establishing theory.
(d) Building a working system form established plans and testing the system
(e) Developing a design routine for a device, constructing it (if required for the project ) and testing it
(f) Investigating specific problems which may arise in governmental Institution, Industrial firms, and other private bodies of corporation in the country.
(g) Investigating causes of failure of any specific plant or device and suggesting remedies, if any.

Examination regulation stipulates that “project and thesis” would carry marks equivalent to two 2-hour paper in the final examination. For the purpose of making, an oral examination will be held in which the student will be required to defend his project.

9.4.1. How to Select a Project:
A project should normally be chosen from fields related to the specific subject selected by the student for the final year degree examination.
In selecting a topic for a project, it is expected that the student goes through the subject titles of papers (in the field of interest) published during the last ten years in engineering journals. Some of these journals are present in Appendix.
A student, first of all go through the subject headings as listed in “Civil Engineering Abstracts” or “Applied Science and Technology Index”. The specific journal in which the paper of interest is published is then consulted and all references listed in the paper collected. A likely project or problem if found the student discuss it with his lecturers who will instruct as to whether equipment could be made available for the project and whether any staff member would be willing to act as a supervisor.
The student would then prepare a rough outline of the proposed project listing all references materials and submit it to the supervisor. The supervisor after establishing feasibility of the project, would give final go-ahead or possibly suggest something different, or modification in which the supervisor himself is interested.
The ideal situation is one where the chosen project coincided with a supervisor’s area of interest. For this reason, member of staff are requested to design projects in their areas of research interest. Students can then choose their project from a list of such project topics. Whenever practicable, students should know their projects long before the beginning of the session.

9.4.2. Basic precepts regarding Engineering Projects:
Two of the most important aspects of a project work include the preparation and organization. Preparation and organization are of the utmost importance in writing the report on the project if someone else is to understand the work. Preparation requires a careful reading of the instruction and collateral material (references, manuals etc), a clear understanding of each step involving in the required procedures before the actual execution of the project, and often a written planned programme (rough outline of proposed, degree to be investigated, preliminary calculations, etc). Organization is a guiding principle to be followed throughout then preparation, execution and reporting of a particular. A good organization, entails the neat construction or design of the model they may be easily visualized and checked, systematic entering of data with descriptive headings and entering of all relevant information regarding equipment used.

9.4.3. Writing Thesis

9.4.3.1. Allocation of Available Time:
A student should aim at his project at about the middle of the second semester, and submit the typed and bound copies of the project two weeks to the beginning of second semester examinations. The time schedule should be roughly as follows:
Initial preparation…………………………………………………………6 weeks
Practical Work connected with the project…………………………10 weeks
Write-up and submission of draft Thesis………………………….. 4 weeks
Supervisor’s and comment on draft project…………………………3 weeks
Typing, correction and binding of final thesis…………………………4 weeks

9.4.3.2. Organisation of Thesis:
Before adopting a format for your project, it is necessary to read the information for author of any Civil Engineering journal reference: Menzel, Jones and Boyd: “Writing a Technical Paper”, McGraw-Hill, 1961.
A formal report on a project may follow below and could include the following:
(a) Abstract: A concise description of the report including the purpose and most important result in the order in which they occur in the report paper.
(b) Introduction: a complete statement of the problem an outline of the theory involved in the solution, and a brief statement concerning the expected results.
(c) Body: of the report should include;
(c1) Procedure: a brief outline of the actual constructional experimental, computational, or other methods followed including necessary circuit diagrams.
(c2) Presentation of Result, an appropriate presentation of the original and processed data-lists, tables, graphs. Sample calculations must be shown.
(c3) Conclusion, an interpretation of the results as they apply to the objectives of the project set out in the introduction. Any deviation from the expected or theoretical results are to be accounted for.
(c4) Recommendations: any recommendations arising from the project work should be presented.
(c5) Limitations of Work: some assumptions made to simplify the work are examined in the light of the results.
(d) References: should be to commonly available publications and books. These should be listed at the end of the paper and number 1, 2, 3 etc. All reference should be referred to at least one in the text so as to justify their presence and relevance to the project. It is good practice to refer to a reference by its number (shown as superscript or subscript or written within parenthesis) in the text.
(e) Appendices (if any) it is normal to set out construction details of a model, complex mathematical derivation of a theory, lengthy computation procedures etc., in appendices. They should be referred to in the text to justify their inclusion.
9.4.3.3.  **Binding and Number of Copies Required**

A minimum of four copies of the project is required, after typing the top copy (for the Department) and one other copy (for interview panel) should be handed over to the Department after Binding. The student should bind the remaining two copies (at his own expense) one of which should be handed over to the supervisor.

9.3.4. **Organization and Display of the Project Work:**

Proper organization of a project work may be achieved by making reference to the following publications:


The student should normally display the essentials (short theory, models, input data, desired results, etc) of a project and talk about or demonstrate them to visitors, or discuss his project in a seminar held during the session.

Display materials should therefore be prepared and preserved until the day of the oral examination. These should prove invaluable in explaining the project work to the member of the examination panel or to the external examiner.

9.3.4.5  **Project and Thesis Assessment:**

The project supervisor is the only person perhaps who knows as much as a student on the problem involved in a particular project. Therefore, his opinion will carry reasonable weight in assessing the project assessment exercise. The supervisor is expected to consider the following in assessing the project:

a) The level of supervision or guidance he has been able to give you;

b) The level of achievement you attain during the project with or without his guidance;

c) Your ability to solve the problem posed by the project and how much of his was through your own effort;

d) Whether you kept a day-to-day record (in the log-book) of the progress made and whether you discussed with him form time to time any problems you been confronted with.

The supervisor’s marking of the project will be to the extent of 20%, the remaining 80% being allocated to the panel for the oral Examination and to a second reviewer/assessor. The members will assess you on the following:

i. Your understanding of the subject you investigated

ii. Your ability to answer questions (and explain points) on the work you have done.

iii. Your project presentation and layout.

iv. You may further be interviewed by the external examiner, or whenever a review of the grading by the supervisor and the panel become necessary.


**I. FINAL YEAR PROJECTS IN 2006 / 2007 ACADEMIC SESSION**

1. Achimalo, Uchechukwu Ikenna (02/005352/ENG): “Design of a Reinforced Concrete Bridge to Link Ogbese Community, Edo State and Okeluse Community in Ondo State”


3. Arinola Babtunde (02/001573/ENG): “Geometric Re-Design And Pavement Design of Ojurin-Onikokoro Road at AKOBO in Oyo State”

5. Efiom, Ndaeyo Efiom (02/001575/ENG): “Comparative Design of a Long Span Reinforced Concrete Slab.”

II. FINAL YEAR PROJECTS IN 2007 / 2008 ACADEMIC SESSION

7. Olagunju, Anthony (03/003381/ENG): “Traffic Load Centre and Analysis Using Ore Intersection in Ondo State”
11. Ohahuna Ugochukwu (03/003379/ENG): “Comparative Cost Analysis of Timber and Steel Roof Trusses”
13. Edeki Omua Kehinde (03/003366/ENG): “Geospatial Data Acquisition and Design for Urban Road Network”
14. Edeki Idianemi Taiye (03/003365/ENG): “Geospatial Data Acquisition And Design For Flood And Erosion Control, Iyibiotor, Benin City”
15. Folami Olatunde Idris (03/003372/ENG): “Cause and Solution to Traffic Problems at Intersection, M.M. Way, Benin City”
17. Oladele Israel Abidemi (03/003380/ENG): “Evaluation of the Safety of Water from Ogbese River”
22. Nwabeko Ihiechi Kevin (03/003376/ENG): “The Use of Recycled Waste as a Partial Replacement of Cement in Concrete Production. A Case Study of Cassava Peel Ash”
23. Dawan NA’Ankang (03/006564/ENG): “Quality Optimization In Road Construction. Case Study of 2nd Ugbor Okundia-Gapiona Link Road, Benin City-Edo State”

III. FINAL YEAR PROJECTS IN 2008 / 2009 ACADEMIC SESSION

25. Nwokoma Chibuite (04/005040/ENG): “Analysis of Highway Related Accidents Between Okada / New Lagos Road Junction and Igbinedin University Main Gate, as Case Study”

IV. FINAL YEAR PROJECTS IN 2009 / 2010 ACADEMIC SESSION
34. Sarumi Aderibigbe (05/006299/ENG): “Design of Geometric Alignment and Pavement of Semi-Urban Road – for 500m Length of a Road in Okada Town as a Case Study”
35. Egone Patrick (Jnr.); (03/003368/ENG): “Analysis and Classification of Okada Soil, with Respect to Engineering Properties”

V. FINAL YEAR PROJECTS IN 2010 / 2011 ACADEMIC SESSION
38. Forsman, Joshua Ebikikoro (06/006922/ENG): “Analysis of Causes of Failure of Rural and Semi-Urban Road Pavement And Mitigation Measures - A Case Study of 1 Km Length of Road in Okada Town”
40. Naiyeju, Oluwatosin Samuel (06/007531/ENG): “Analysis and Comparison of Surface Water from Various Sources – A Case Study of Some Streams/Rivers in Ovia North East LGA”
41. Nwanise Eitten Nwanise (06/006925/ENG): “Analysis and Design of Highway Storm Water Drainage – A Case Study of 1 Km Length of Road in Okada Town”
43. Orakwue Chukwuemeka Alexander (05/006294/ENG): “Analysis, Design and Detailing of Earth Retaining Wall as a Control Measure for Flood and Erosion in A Semi-Urban Area – Using 300m Length of a Road in Okada Town”

VI. FINAL YEAR PROJECTS IN 2011 / 2012 ACADEMIC SESSION
44. Ike-Morris Amanze (08/008956/ENG): “Surveying, Setting Out and Design of a Semi-Urban Road – A Case Study of 500 meter Length of Access Road in the Residential Crown Estate, Igbinedion University, Okada”
46. Nwaoboshi Christopher (08/009729/ ENG): “Design and Costing of a 50m long x 50m wide x 3m deep Swimming Pool for a Commercial Hotel to be located at Asaba, Delta State Capital”
47. Sekibo Osemiebi (05/008300/ENG): “Analysis of Ground Water Pollution and Remediation – A Case Study of a Locality in Port Harcourt, Rivers State”
VII. FINAL YEAR PROJECTS IN 2012 / 2013 ACADEMIC SESSION

48. Adedokun Sakiru Olayide (08/008951/ENG): “Design of Borehole Based Mini-Water Supply Scheme for Okada Town”


50. Akinnawonu Segun Ademola (08/007901/ENG): “Analysis of Causes of Failure of Urban and Semi-Urban Road Pavement and Remediation - A Case Study of 5 Km Length of Road Between Usen Road Junction and New Lagos Road Junction.”


52. Ashiru Ayotunji Samson (08/008954/ENG): “Structural Analysis, Design and Costing of an Elevated Storage/Distribution Gravity Braithwaite Water Tank with 30 Meter High Supporting Steel Tower for Crown Estate Campus of Igbinedion University, Okada”


55. Onyegbadue Chigozie (08/009700/ENG): “Comparative Analysis of Strength and Cost Implication of Bricks / Blocks made with Different Available Local Materials; namely: Okada Termite Soil; Clay; Sanderete Blocks, etc in the Okada Locality.”


57. Oyubu Mudiaga Eru (08/009763/ENG): “Analysis and Design of a Foundation Launching Pad for a Rocket”


59. Thomas Oluwafemi Olumide (08/009738/ENG): “Hydrological Analysis and Hydraulic / Structural Design of a Multi-Cellular Highway Culvert – A Case Study of a 2- Box R. C. Culvert with Dimensions: 8.2m wide x 20m long x 4m deep. (To be sited at the Junction of Mission Road Okada / Entrance Road of the Residential Crown Estate, Igbinedion University, Okada”

VIII. FINAL YEAR PROJECTS IN 2013 / 2014 ACADEMIC SESSION


61. Adirika OgochukwuChinwite (09/011113/ENG): “Evaluation of the Capabilities of Two Plant Species for Photo-remediation of Motor Oil Contaminated Laterite Soil”

62. Agbonlahor Leonard Ehiosu (09/010974/ENG): “Analysis of Causes of Failure of Roads in Urban Area – A Case Study of Selected Areas in Benin City”


64. Amifor Prince Chukwuakasie (09/010980/ENG): “Noise Propagation and Modelling in Sawmill Quarters, along Usen Road”


68. Eneh Ugonna (09/009869/ENG): “Structural Analysis and Design of A 2-Storey Administrative Building Block – A Case Study of 40m long x 30m wide R., C. Block”

69. Eresia-Eke Odoma (09/010896/ENG): “Soil Erosion Management – A Case Study of Benin City”

70. Foster Olusegun Anuoluwapo (09/011580/ENG): “Analysis of Stability of Sub-grade and its Improvement in Road Construction – A Case study of 1 Km Road in Okada”


72. Igbele Simon Uchenna (09/010460/ENG): “Application of Water quality Index in Determination of Industrial Water Quality Case Study of Ikpoba River; Benin City”


74. Iyamah Osi Victor (09/010992/ENG): “Structural Analysis and Design of Filling Services Station - A Case of Filling Services Station for Okada Community”


76. Lawal Ahmed Adeyinka (09/010996/ENG): “Analysis and Design of Rigid Pavement - A Case of 1 Km Length of Rigid Pavement for Okada Area with Weak Soil bearing Capacity”


79. Odebowale Babatunde (09/010998/ENG): “Structural Analysis and Design of Water Supply Buttress Dam – A Case of 20 Meter High Buttress Dam for Okada”


81. Ogbiti Kingsley Kalu (09/010999/ENG): “Comparative Analysis of Strength of Concrete Using Sawmill Dust as Partial Replacement – A Case Study Mixing Concrete with 5 - 30 % of Saw Mill”

82. Ogele Enyinda Sunny (09/01103/ENG): “The Use of Rice Husk Materials for Partial Replacement of Cement in Concrete”

83. Okonna Nsikak Mepherson (09/010999/ENG): “Assessment of the Potential of Waste to Energy Technology – A Case Study of Conversion of Scrap Metal to Car Battery System”

84. Okpivbiri Ohiozjie (08/009609/ENG): “Comparative Analysis of Long Term Deflection of Reinforced Concrete Slab and Beam in a Building Structure – A Case Study Analysis Using Four Specified Methods”

85. Olawole Abiola Philip (09/011101/ENG): “Structural Analysis and Design of a Theater - A Case Study of 10,000 Capacity Theater Complex for Igbinedion University, Okada”

86. Osahon – Amen Esosa (10/012786/ENG): “Erosion Control of Road surface and Sub-Surface in Okada Town”

88. Salami Afolabi (09/011111/ENG): “Structural Analysis and Design of a Mini- Sports Stadium Complex - A Case Study of 60,000 Capacity Stadium Complex for Igbinedion University, Okada”
89. Usman Hauwa Abdulkadir (09/011013/ENG): “Structural Analysis and Design of a Mini – Grain Storage Building for a Community - A Case Study of 25m Long x 25 m wide x 6 m High Storage Building for Okada”
90. Okoruen Francis Uto Irereke (09/011000/ENG): “Performance Evaluation of Nigerian Roads – A Case Study of Selected Area in Benin City”

9.6. Becoming a Chartered Engineer
To become a fully qualified professional engineer, graduates must be registered by the Council for the Regulation of Engineering in Nigeria (COREN). They can then use the letters C.Eng. after their names, indicating that they are a Chartered Engineers. The requirements are: an enhanced degree, i.e. a B.Eng., and a minimum of two years’ approved industrial training with an appropriate company. The national youth service year is often counted as one if spent with an appropriate engineering enterprise.

Thus, via a conventional four-year degree course, the process normally takes at least eight years from leaving school (see diagram); it may take longer, of course, if industrial training is difficult to come by. The provision of such training can be expensive for employers, because they will incur costs in providing it, and will lose the use of an employee’s services whilst training is undertaken.

The five-year thick sandwich course in the College of Engineering Technology at Igbinedion University, Okada helps to smooth the way through this stage, because the integrated industrial placement is approved by the Council for the Regulation of Engineering in Nigeria (COREN). With a large proportion of the industrial training already completed, students are well down the road to registration even before graduation.

### 10. FACILITIES AVAILABLE IN THE DEPARTMENT OF CIVIL ENGINEERING

#### 10.1. General Office Facilities available
in the department of Civil Engineering is summarized as follows:

<table>
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<tr>
<th>S/N</th>
<th>Type</th>
<th>Number Exclusively Available for the Program</th>
<th>Average Area (m²)</th>
<th>Capacity (Number of Students that Can be accommodated)</th>
<th>Facilities Jointly Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Lecture Rooms</td>
<td>6</td>
<td>36</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>Lecture Theatre</td>
<td>3</td>
<td>270</td>
<td>200</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>Drawing Studio</td>
<td>1</td>
<td>60</td>
<td>60</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>Library</td>
<td>1</td>
<td>60</td>
<td>80</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>Laboratory</td>
<td>5</td>
<td>450</td>
<td>35</td>
<td>4</td>
</tr>
<tr>
<td>6.</td>
<td>Workshop</td>
<td>2</td>
<td>60</td>
<td>30</td>
<td>1</td>
</tr>
<tr>
<td>7.</td>
<td>College Board</td>
<td>1</td>
<td>50</td>
<td>40</td>
<td>1</td>
</tr>
</tbody>
</table>

10.1.1. Available office facilities include: seats; desks; book shelves; cupboards;
1 No. computer complete with accessories; 3 Nos. printers; 1 No. scanner; etc.

Others Include: tables, chairs, book shelves, steel cabinets, fans and air conditioners; 2Nos Standby gen-sets.

10.1.2. Departmental Office Accommodation for Staff
The office accommodation for the staff is adequate for now. There are four office rooms each with plan area space of 12sq. m. The ongoing expansion work in the college will provide more offices for the staff.

10.1.3. Staff office Facilities
Staff offices are fairly well furnished. Each Lecturer has a personal computer and the students have access to computers in the department while they receive further training in the University’s Computer Laboratory. Also, wireless internet facilities is being installed for the College. This will provide excellent research facilities for the lecturers.

Some available staff office accommodation is summarized below.

<table>
<thead>
<tr>
<th>S/N</th>
<th>Office</th>
<th>No in Room</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Head of Department</td>
<td>1</td>
<td>7No. chairs; 1 No. table; I No. fan; I No.AC; I No. Fridge; I No. bookshelf; I No. Cupboard I No. computer with I No. printer</td>
</tr>
<tr>
<td>2</td>
<td>Professor</td>
<td>1</td>
<td>same as above</td>
</tr>
<tr>
<td>3</td>
<td>Senior Lecturer</td>
<td>2</td>
<td>4No. chairs; 2 No. table; I No. fan; I No. bookshelf; I No. computer</td>
</tr>
<tr>
<td>4</td>
<td>Lecturer 1</td>
<td>2</td>
<td>4No. chairs; 2 No. table; I No. fan; I No. bookshelf; I No. computer</td>
</tr>
<tr>
<td>5</td>
<td>Lecturer 11</td>
<td>2</td>
<td>4No. chairs; 2 No. tables; 1 No. fan; I No. bookshelf; I No. computer</td>
</tr>
</tbody>
</table>

10.1.4. Class rooms: Total available 15 Nos in Block 1(3 Nos) and Block 3 (12 Nos) capable of sitting 200 and 100 respectively, fully furnished with magnetic boards lecturers, teacher’s desk and chairs, fans.

10.1.5. Drawing Studio / Offices:
1 No Large one in Block 1 400 seats capacity
4 Nos Mini in Block 3

College Library: Capacity for 100 users with books, journals, periodicals and a Librarian/Library Assistant. In Admin 600seaters reading room. 1000 volumes (books, journals, periodicals), bookshelf novels, journals periodicals and reference materials.

10.2. Library Facilities
The department has a library which is located in the College Library, is equipped with modern books on current subjects in Civil Engineering, including reputable journals, etc. More books are being added from time to time. The library provide excellent services to both the students and the staff. Both students and staff have access to the college library and the University library.

10.2.1. ICT Facilities
Each lecturer has a personal computer. The computers are also connected to wireless internet network of the University, operated by the ICT. The students have access to computer in the department while they receive further training in the University’s Computer Laboratory.

10.2.2. **Browsing Sites** are available in the hostel, offices. Hot spots are also available. This enables students / staff with laptop to access the internet.

10.2.3. **Common ICT/e-learning/Distance learning:**
- In the College: 60- seater capacity internet ready computer Laboratory/LAN
- In AdminBuilding: 100 seater digital centre.
- In Hospital Campus: 100 seater digital centre
- Video conference facility
- In Hostel (Boys): 50 seater digital centre
- (Girls): 50 seater digital centre
- Natural & Applied Sc:100 seater computer Lab, Internet ready/LAN
- Facilities are networked WiFi, WAN, LAN
- Private providers: Crown Estate
- Intercontinental hostel
- Staff Club/Student Café
- 100 seater video conference centre at IUTH.

10.3. **Research Centres**
- Instructional Resource
- Product Development
- Environmental
- Energy
- Appropriate Technology

10.4. **Laboratories**

The Civil Engineering Laboratory / Workshop Block comprises of five units, namely;
- i. Structural / material laboratory (also housing the concrete and wood workshop);
- ii. The Water Resources / Public Health / Hydraulic laboratory;
- iii. The Geotechnical or Soil Mechanics laboratory;
- iv. The Engineering Survey and Geo-Informatics laboratory (also incorporating Highway lab);
- and
- v. The modeling Studio.

There are two office rooms in the Civil Eng Lab (one for the technologist and the other for lab attendant). The list of the equipment in each laboratory, is attached in Appendix 1, at the end of this Form.

10.4.1. **List of Principal Tools, Instruments and Equipment in the Civil Engineering Laboratory**

<table>
<thead>
<tr>
<th>S/No.</th>
<th>Description of Facilities AVAILABLE</th>
<th>Quantity in Stock</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>WATER RESOURCES &amp; ENVIRONMENTAL ENGINEERING LABORATORY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Evaporating Dish, 100mm, porcelain</td>
<td>5</td>
<td>Okay</td>
</tr>
<tr>
<td>2.</td>
<td>Local Oven, Drying, Thermostatic</td>
<td>1</td>
<td>Okay</td>
</tr>
<tr>
<td>3.</td>
<td>100mm Desiccators</td>
<td>2</td>
<td>Okay</td>
</tr>
</tbody>
</table>
4. 50ml plastic sample bottle 10 Okay
5. 250ml glass sample bottle 10 Okay
6. Bunsen Burner 5 Okay
7. 75mm Glass Funnels 20 Okay
8. Test tube 20 Okay
9. 20ml Zero Burette 4 Okay

**B. GEOTECHNICAL, HIGHWAY & TRANSPORTATION ENGINEERING LABORATORY**

1. Local Hand Auger 4 Okay
2. A complete set of aggregate size series (10mm – 200mm) 1 Okay
3. CBR Plunger 1 Okay
4. Moisture Content tin 4 Okay
5. Complete Set of Sieves 1 Okay

**C. GEODECTIC ENGINEERING & PHOTOGRAMMETRY LABORATORY**

1. Dumpy level 2 Okay
2. Steel tape 4 Okay
3. Leveling staffs 4 Okay
4. Ranging pole 8 Okay
5. Compasses 2 Okay
6. Engineer’s chains 2 Okay
7. Planimeters 1 Okay
8. Plumb-bobs 3 Okay
9. Arrow sets 4 Okay

**D. STRUCTURAL (CONCRETE WORKSHOP)**

1. Local type slump cone with complete accessories 1 Okay
2. Cube moulds 10 Okay
3. Shovels/Spades 4 Okay
4. Head pans 5 Okay
5. Trowels 6 Okay
6. Wooden float 3 Okay
7. Wheel barrow 4 Okay
8. Weighing beam balance 1 Okay

**E. Available In Mechanical Engineering Laboratory**

1. Portable Carbolite Furnace 1 Okay
2. Universal Testing Machine 1 Okay
3. Hardness Tester 1 Okay

---

**11 General University / College / Departmental Facilities**

**11.1. Transportation Facilities**

i. University: fleet of 30 Nos, 14 seater air-conditioned buses for
   - Day to day transportation
   - Okada Benin shuttle
   - Holiday shuttle
   - Escort ions/field trips
   - Visitation on IT
Other functions: Guest lecturers, visits

ii. Private Taxi: cabs: Registered with students Affairs about 150Nos

iii. Bike: Registered with student affairs about 100Nos.

iv. A good Road Network exists.

11.2. Common University Recreation Facilities

Football pitches 2Nos
Basket ball 2 Nos
Volley ball 2 Nos
Lawn tennis 2 Nos
Badminton 2 Nos
Table tennis 2 Nos
Scrabble, chess, movable lots.
Swimming pool 1 No.

11.3 Accommodation Facilities

Staff housing (both in the Residential Crown Estate and Usen Road Extension)

1 Bed room flats @ 60 Nos
2 Bedroom flats @ 40 Nos
3 Bedroom flats @ 100 Nos
Duplexes @ 11 Nos

Guest: Guest house complex 14 x 4 Bedroom Bugalows

Student Hostel: University – Capacity for 10,000 beds
Intercontinental – capacity for 400 beds

We run strictly a fully Residential campus

100 scatter reading rooms in hostels

11.4 Water Supply Facilities

(i) 2 Nos water works for direct Pipe borne water
(ii) inwilter wor5ks in Okada town
(iii) intervening supplies vide tankers into ground tanks

11.5 Electrical Power Supply Facilities

(a) College of Engineering:
(b) 1 No. Standby 150 KVA
(c) 1 No. Standby Generator 7.5 KVA
(d) Crown Estate
(i) Main 1.60MVASub main
(ii) 3 Nos 250 KVA
(iii) IUTH 2 x 1MVA units
Numerous 5 KVA units
(e) Main Campus:(i) 1 Nos KVA; (ii) 1 No. KVA; (iii) 1 No KVA

11.6 Solar Energy: for street lighting in all the campuses and basic power needs

11.7 Health Care

Hospital Campus: IUTH (Main)
Hostel Area: 1 Pharmacy, 3 Nos

Sick bays and first aid points for students and staff. (Female hostel, Z block, student café road).
11.8. Banking: Real time online with ETB, Zenith, Intercontinental and Okada-Microfinance Bank. All banks have cash offices on the various campuses with ATM facilities for non-office hours/weekend banking.

11.9. Security
(a) permanent fencing of campuses and specific students residential areas with excellent access control.
(b) security service provider - Sheriff Deputies to mount/control/guard academic office, labs and residential areas.

11.10. Fire Fighting/Environmental Facilities
Availability of Co2 fire extinguishers, sand buckets, water buckets and fire blankets in strategic locations pole bins, vegetation control, landscaping.

11.11. Teaching Aids
- public address system with tape recorders (combined unit)
- multimedia projector
- overhead projectors
- Laptops etc.

11.12. Demo Facilities
The Radio/TV studio housed Mass Communication Department is available for practical demonstration (Hands on) for students of Electrical Engineering, Computer Engineering to enhance other facilities in communication technology. It has state of the art facilities like:- Digital monitors, Vision Mixer, Audio Mixer, DVD player, DV players, Video cameras, VCR players. Non linear editing unit (for the N studio) and models/samples etc.

12. Funding of the Civil Engineering Department
The University operates a centralized funding system. Requests for teaching aids and other materials (computer and computer consumables) are obtained from the central stores of the University. Printing and materials for examinations – booklets and photocopied questions paper – are all effected from Vice Chancellor’s office. Funding for external examiners – honorarium and transport are also paid for from the central vote. However, Colleges and departments have fair autonomy. And College/Departmental accounts are controlled by college finance Officers.

The Dept operates a centralized/discentralized funding system for capital costs, and petty cash (imprest) spending etc. Funds are provided centrally for staff development, furnishing exams research, teaching aids, tours and travels, maintenance, utilities etc. Generally funds are available for overheads (staff salaries/advances/loans), operating cost and running costs.

Aside the centralized system, there are funds for imprest and other internally/externally generated sources Attempt have been made to secure funds through grants/aids from external sources and other partnerships.

13. Collaborations
The college enjoys facilities from collaboration entered into by the University with Howard University, USA, University of Westminster, UK, London, University of Benin. Benin City. areas of ICT, Video Conferencing exchanges, Laboratories etc.
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

FORWARD

Edition of “Handbook For Undergraduate Programmes” sets out in detail information on the structure of the Department of Electrical and Computer Engineering and includes extracts from the University Regulations Governing First Degree Programmes.

The handbook also contains information on the vision, mission, course description in respect of the department and other relevant matters.

This handbook shall be of great value to students and staff of the department and other persons who may wish to obtain information on the academic programmes of the department of Engineering

Engr. Izilein Fred A.
Ag. HEAD OF DEPARTMENT
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   1.2 Mission
1.3 Brief History…
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1.5 Philosophy
1.6 Admission Requirements
1.7 Curriculum
1.8 Industrial Training
1.9 Registration
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1.15 Cumulative Grade Point Average (C.G.P.A)
1.16 Staff details

2.0 COURSE STRUCTURE/DESCRIPTIONS (300-500 LEVELS)

3.0 FINAL YEAR PROJECT AND THESIS
3.1 The Nature of the Project
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4.0 BECOMING A CHARTERED ENGINEER

1.0 INTRODUCTION

1.1 Departmental Vision:
The vision of the Department is to be the best Electrical/Electronics and Computer Engineering Department in any Nigerian University with national and international acclaim; a Department where the advancement of engineering and technology is continuously dynamic, environment-friendly engineers, required in the public and private sectors of the economy are mid-wifed for the rapid industrialization and development of Nigeria.

1.2 Mission:
The mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the Department will provide:
• State-of-the-art technological and engineering training that prepares the graduates for responsibilities of the workplace.
• Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
• Establish industry-institution linkages for mutually beneficial relationships
Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.
1.3 **Brief History:**
The department opened her door to students in the 2002/2003 sessions with an intake of about 30 students. Currently the student population is about 200. The department has a highly experienced team of academic, technical and administrative staff with cognate experience. The department is equipped with an ultra modern engineering workshop and laboratories, classrooms and drawing studios with state of the art facilities. The department graduated its first badge of students in the 2006/2007 session.

1.4 **Goals and objectives:**
The general goals and objectives of engineering training are expected to be in consonance with the realization of national desires with respect to industrial development and high technology attainment. Consequently, the objectives of the engineering programmes are to:

i. Develop the necessary skills, creative ability, attitudes and expertise consistent with engineering design, communication and construction of engineering works and projects;

ii. Adapt and improve on exogenous technology in order to enhance construction techniques and the proper study and use of local raw materials;

iii. Inculcate maintenance culture in the use of engineering artifacts;

iv. Inculcate a responsible attitude towards demands made by the practice of engineering and risk Implication of design and construction;

v. Install and maintain complex engineering systems to enable them perform optimally in the Nigerian environment;

vi. Be able to exercise original thought, have good professional judgment and be able to take responsibility for the direction of important assignments;

vii. Be self employable, and,

viii. Ensure therefore, that engineering graduates from Igbinedion University are resourceful, creative, knowledgeable and capable of carrying out the following functions:

   i. To design engineering projects and supervise their construction;

   ii. To design and make components, machines, equipment and systems;

   iii. To design and develop new products and production techniques in industries;

   iv. To be good manager of people, money, material, plants and machinery.

In order to achieve the goals and objectives set out above, and taking into consideration the broad-based approach to engineering education and training, we therefore made the following recommendations:

1.4.1 **Academic Staff:**
Efforts are made to ensure that the NUC guideline on staff-student ratio of 1 to 30 is maintained. The department has qualified staff with PhD. degrees as well as industrial experience.

1.4.2 **Technical Staff:**
The department has competent technical staff to run the laboratories, workshops, studios, and maintain teaching and research equipment.

1.5 Philosophy:
The general philosophy in line with the minimum academic standards set by the NUC is to produce graduates with high academic standard with adequate practical background and of immediate value to industry and the nation in general; and be self-employable. The programme has four-intervening Industrial-Training periods to enable the engineering graduates acquire the necessary skills to solve local problems. Pursuant to the general philosophy, therefore, the programmes have been designed to incorporate the following features:

a) Common courses at the 100 and 200 levels for all engineering students
b) 8 weeks workshop practical at the end of the 2nd semester 100 level examinations for all engineering students.
c) Workshop practice (up to 300 level) and, laboratory work for all engineering students.
d) Interaction between students and professionals through regular seminars
e) Final year research project where the student works alone under an academic supervisor
f) Opportunity to have in-depth study of a specific area of the programme from a wide selection of optional courses.
g) Adequate knowledge in engineering management and entrepreneurship

1.6. Admission Requirements:
(1) Candidates seeking 100-level admission into the College leading to the Bachelor of Engineering, (B.Eng) Degree, of the College of Engineering Technology should possess passes at the credit level, or higher, in the Senior Secondary School Certificate Examination(SSCE) or General Certificate of Education (GCE) ‘O’ Level in five subjects, including Mathematics, Physics, Chemistry and English Language, plus an acceptable pass in the Universities Matriculation Examinations (UME), where applicable. Equivalent passes in examinations conducted by NECO and NABTEB are accepted.

(2) Candidates seeking Direct Entry admission to 200 level of the programmes should possess GCE ‘A’ Level in Mathematics, Physics and Chemistry or Ordinary National Diploma from a recognize institution with lower credit, or a University Diploma in a Science or Engineering based course at the Merit level, in addition to the matriculation requirements stated in (1) above. Candidates with Higher national diplomas in relevant disciplines can be considered for direct entry as appropriate.

1.7 Curriculum:
a. Course Credits
   All courses for the Bachelor of Engineering degree programmes should be based on the various Departments. Courses taken at the 100 and 200 levels are common to all Departments in the Faculty and are taught Faculty-wide by Departments assigned to teach the courses. All courses are assigned credits. One credit is equivalent to one hour per week per semester of fifteen (15) weeks of lectures or tutorials or three (3) hours per week of laboratory work per semester. All students in the programmes should take a minimum load of eighteen (18) credits per
semester. A minimum of nine (9) hours per week, (equivalent to three (3) credits), should be spent on laboratory practical.

There should also be one hour of tutorial for every four (4) hours of lecture.

b. Course Coding

It is proposed that all courses be coded according to Department, level and semester. Thus, the Department codes are as follows:

Electrical/Electronic Engineering - EEE, Computer Engineering - CPE

The level codes are as follows:

- 100 level - 1
- 200 level - 2
- 300 level - 3
- 400 level - 4
- 500 level - 5

Semester codes are as follows:

First Semester - 1 or any odd number
Second Semester - 2 or any even number

For example, the full course code for a 200 level course, offered by Electrical Engineering in the first semester, is of the form: EEE 211 where, 2 represents the level, 1 the number assigned by the Department to track the course, and 1 represents the semester. Should the same course be available in the second semester, the course code would be EEE212 where the ‘2’ at the end of the figure signifies the second semester.

1.8 Industrial Training:

Engineering education is incomplete without industrial attachment being part of the degree programme. The NUC recommends a minimum duration of 40 weeks (one semester and 3 long vacations) for industrial attachment. The objective of the attachments cannot be overemphasized. It is to expose the students to a live working environment where they can relate theory to practice and enhance their communication and human relation skills. Priority is given to those engineering concerns in which maintenance and workshop practice plays a major role because they offer practical exposure that may be available in the Colleges. From the aforementioned, the following practical training scheme: Igbinedion University Industrial Training Scheme, (IUITS), is carried out by the college:

(i) Pre-degree IUITS – IUITS 102

This is an intensive eight-week in house practical training in the various workshops within the College and around the campus. It commences two weeks after the end of the 100 level Session Examinations for 100 level Engineering students. During this period, the students are exposed to workshop practices that may be encountered in the mechanical, machine, sheet metal, automobile, welding, carpentry, civil, computer and electrical engineering workshops.

(ii) First Industrial Attachment (200 level IUITS) – IUITS 202

It commences two weeks after the end of the 200 level Session Examinations for 200 level Engineering students. During this period, the students are exposed to more workshop practices that may be encountered in the mechanical, machine, sheet metal, automobile, welding, carpentry, civil, computer and electrical engineering workshops.

(iii) Second Industrial Attachment (300 Level IUITS) - IUITS 302
The attachment takes place at the end of the 300 level session examinations for 12 weeks of the long vacation. Department staffs are expected to visit the trainees for on-the-spot assessment of their progress.

(iv) Third Industrial Attachment (400 Level IUITS) - IUITS 402
The attachment, which begins at the end of the first semester examinations, at the 400 level of the programme, it is the final exposure to industrial practice before the completion of the Bachelor of Engineering degree programme. It last for 24 weeks. It is expected that during the training, the student is exposed to his/her chosen end Degree. Again Department staffs are expected to visit the trainees for on-the-spot assessment of their progress.

(v) Grading and Assessment of Industrial Training
This should be a combination of Continuous Assessment (CA) by the supervising college staff that visit the students on training, and the grading of the logbooks and final written reports of each student at the end of each training attachment. The designated officer of the establishment must properly authenticate such logbooks and reports where the students served. Students in 300 and 400 level may be required to defend their report as part of their assessment. IUITS is graded on a pass or fail basis, a pass will require a student to obtain a minimum of 50% in the logbook and final written report.

1.9 Registration:
At the beginning of every session all students are to register for all their courses for that session using online registration as required by the University’s Examinations and Records Unit of the Registry. They must register for a minimum of 18 credits per semester and 36 credits per session. The maximum number of credits for a session must, however, not exceed 52 credits with a maximum of 26 credits per semester.

1.10 Course Adviser:
The Head of Department appoints academic staff as course adviser to the students for the different level of study, with the primary responsibility of ensuring that the students register for the courses and credits as is required, and advising them on University regulations as they relate to their studentship.

1.11 Examinations:
Examinations should be conducted at the end of each semester to assess the students understanding of the taught courses from a combination of examination results, continuous assessments and grades obtained from laboratory/practical work. The student’s status may be determined at the end Session Examinations.

1.12 Eligibility for summer:
Eligible students for the summer school will be those:
(a) Who are not indebted to the University in any form
(b) Who have attended lectures during the semester(s), sat for examination and failed in the relevant course(s).
(c) Who have attended lecture for the said course(s) during the semester(s) but failed to sit for examination due to acceptable reasons as approved by Senate.
1. To qualify to register for any course in summer, a student must score at least 25% for the said course(s). In order words, a student who scores below 25% in any course(s) will automatically carry such course(s) over to the next level of study.

2. **Credit Units:**
The maximum credit unit allowable for a student during summer is pegged at 18 units for the all summer examination in that session.

3. **Fee:**
A student is expected to register for summer before being allowed to sit for it. The registration fee of N2,500 and N7,500 per course is currently being charge.

1.13 **Academic Standing:**
A student is in good academic standing at the end of any semester if the CGPA is not less than 1.5 and can proceed to the next level otherwise; such a student attains the status of probation and will be advised to repeat all failed courses from the previous session in the new session. If in the next successive two semesters, the CGPA of such student consistently remains below 1.5 then such a student will be advised to withdraw having failed to utilize the probation period to improve on the academic performance. Note that no candidate is allowed to probate on a level more than once. However a student on probation but whose CGPA subsequently rises to 1.5 or greater reverts to the status of good academic standing.

1.14 **Graduation Requirements:**
To be eligible for the award of the degree of B.Eng Electrical and Electronics or Computer Engineering, a candidate must have satisfied the following conditions:

a) Completed a minimum of 9 months industrial training, 6-month stretch being compulsory.

b) Passed all compulsory and required courses (including GSTs and ESP).

c) Bringing the minimum total number of units passed to:

<table>
<thead>
<tr>
<th>Level of Entry</th>
<th>Electrical and Electronics Engineering</th>
<th>Computer Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>217</td>
<td>220</td>
</tr>
<tr>
<td>200</td>
<td>169</td>
<td>172</td>
</tr>
<tr>
<td>300</td>
<td>123</td>
<td>124</td>
</tr>
</tbody>
</table>

For a student to qualify for graduation from any of the programmes, such a student must have passed all the prescribed courses in addition to satisfactorily meeting the Industrial Training requirements, and all General studies courses of the University. Such a student must have also met the minimum number of years and not exceeded the maximum number of years required for graduation shown in Table 1.4

<table>
<thead>
<tr>
<th>Level of entry</th>
<th>Minimum number of years to graduate</th>
<th>Maximum number of years to graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level</td>
<td>5</td>
<td>8</td>
</tr>
</tbody>
</table>
The class of the Bachelor of Engineering Degree is determined by the final cumulative grade point average earned by the graduating student.

1.15 Cumulative Grade Point Average (CGPA):
The CGPA for each level of course is calculated from a combination of the grade GP assigned to % scored obtained in the examination and the credit assigned to that course. The relationship presented in Table 1.3:

<table>
<thead>
<tr>
<th>Courses attempted (a)</th>
<th>Credits attempted (b)</th>
<th>% Scores (c)</th>
<th>Letter grades (d)</th>
<th>Grade point (e)</th>
<th>Grade point credit weighed (f) = (b) x (e)</th>
<th>Cumulative grade point average (GPA) (g) = ( \frac{\sum(f)}{\sum(b)} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEE 211</td>
<td>3</td>
<td>70 – 00%</td>
<td>A</td>
<td>5</td>
<td>3 x 5 = 15</td>
<td>43 = 2.69</td>
</tr>
<tr>
<td>EEE 221</td>
<td>3</td>
<td>60 – 69%</td>
<td>B</td>
<td>4</td>
<td>3 x 4 = 12</td>
<td></td>
</tr>
<tr>
<td>EEE 231</td>
<td>4</td>
<td>50 – 59%</td>
<td>C</td>
<td>3</td>
<td>4 x 3 = 12</td>
<td>16</td>
</tr>
<tr>
<td>EEE 241</td>
<td>2</td>
<td>45 – 49%</td>
<td>D</td>
<td>2</td>
<td>2 x 2 = 4</td>
<td></td>
</tr>
<tr>
<td>EEE 251</td>
<td>4</td>
<td>0 – 44%</td>
<td>F</td>
<td>0</td>
<td>4 x 0 = 0</td>
<td></td>
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<tr>
<td><strong>Total 16</strong></td>
<td></td>
<td><strong>Total 43</strong></td>
<td></td>
<td></td>
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</tbody>
</table>

Thus the student who attempted the 200 level courses shown in Table 1.3, sat for a total of 16 credits, and ended up with a GPA of 2.69 for that level. This mode of computation is done for each level per student. The cumulative grade points average, CGPA on which the classification of a graduating student is based, is the sum of the GPA's for each level divided by 5 for a 5-year programme, or 4 for a 4-year programme presented in Table 1.4:

<table>
<thead>
<tr>
<th>Mat No.</th>
<th>Name of Student</th>
<th>Level</th>
<th>UNITS</th>
<th>WP</th>
<th>GPA</th>
<th>CGPA</th>
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<tbody>
<tr>
<td>ENG9900020</td>
<td>XXXX</td>
<td>100</td>
<td>48</td>
<td>104</td>
<td>2.17</td>
<td>488  = 2.43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200</td>
<td>47</td>
<td>112</td>
<td>2.38</td>
<td>201</td>
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<td></td>
<td></td>
<td>300</td>
<td>42</td>
<td>98</td>
<td>2.33</td>
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<tr>
<td></td>
<td></td>
<td>400</td>
<td>26</td>
<td>60</td>
<td>2.31</td>
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<td></td>
<td></td>
<td>500</td>
<td>38</td>
<td>114</td>
<td>3.0</td>
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<td></td>
<td></td>
<td>5</td>
<td>201</td>
<td></td>
<td></td>
</tr>
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<td></td>
<td>488</td>
<td></td>
<td></td>
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</tbody>
</table>

The degree classification, according to the CGPA recommended by the NUC is presented in Table 1.5:

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Thus, the candidate, XXXX who finished up with a CGPA of 2.43 has earned a 2\textsuperscript{nd} Class Lower Degree.

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**ELECTRICAL/ELECTRONS AND COMPUTER ENGINEERING**

**GEN. ABDUSALAMI A. ABUBAKAR COLLEGE OF ENGINEERING**

**B.ENG. ENGINEERING DEGREE PROGRAMME**

**100 LEVEL COURSE SCHEDULE**

<table>
<thead>
<tr>
<th>First Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester</strong></td>
</tr>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>First Semester</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
<tr>
<td>6.</td>
</tr>
<tr>
<td>7.</td>
</tr>
<tr>
<td>8.</td>
</tr>
<tr>
<td>9.</td>
</tr>
<tr>
<td>10.</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>S/N</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MTH 121</td>
<td>Vectors, Geometry/Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>MTH 122</td>
<td>Differential Equations &amp; Dynamics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>CHM 121</td>
<td>General Chemistry II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>CHM 122</td>
<td>Practical Chemistry II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>CHM 123</td>
<td>Organic Chemistry II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>PHY 100</td>
<td>Practical Physics</td>
<td>1</td>
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<tr>
<td>7.</td>
<td>PHY 121</td>
<td>Electromagnetism</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>PHY 122</td>
<td>Modern Physics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>PHY 123</td>
<td>Vibrations, Waves and Optics</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>GST 121</td>
<td>Use of Library, Study Skills and ICT</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>GST 122</td>
<td>Communication In English II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>GST 123</td>
<td>Communication In French</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>IUIITS 102</td>
<td>Igbinedion University Industrial Training Scheme I</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1st Semester Total Credit Units</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Session Credit Units</td>
<td>46</td>
</tr>
</tbody>
</table>

Note: L – Lecture Hours/Week, T-Tutorial Hours/Week, P-Practical Hours/Week.

**MTH111 – Algebra And Trigonometry**  
3 Credits

**MTH112: Calculus / Real Analyses -**  
3 Credits

CHM111 – General Chemistry I 3 Credits


CHM112: Organic Chemistry I 2 Credits
(a) General Principles of Organic Chemistry:
   (ii) General procedure for isolation of purification of organic compounds.
   (iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
   (iv) Isomerism. Structural isomerism and stereo isomerism.

(b) Non-Polar Functional Group Chemistry:
   (i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
   (ii) Alkenes – Structure and physical properties. Reaction: addition (of \( H_2, X_2, HX, H_2O, O_2 \), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
   (iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of \( H_2, \ X_2, HX, H_2, H_2, O, \ etc. \) Test for Alkynes.
   (iv) Benzene: Structure and aromaticity of benzene. Introduction to electro.phillic.
   (v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
   (vi) Coal tar chemistry, origin, production, important components and uses.

CHM 113 Practical Organic Chemistry:
Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.
PHY111: Mechanics, and Properties of Matter - 2 Credits

Mechanics: Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton’s law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton’s law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion. Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

PHY 113 Thermal Physics Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan’s law. Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro’s number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids. Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.

Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

GST111: Communication in English 2 Credits

Effective communication and writing in English language skills, writing of essay answers comprehension sentence construction, outlines and paragraphs collection and organization of materials and logical presentation, Punctuation.

The course will consolidate the fundamentals of English Language including the following: Nouns and Pronouns (types and features), Verbs and Tense (varieties), Adjectives and Adverbs (varieties, features and functions), Conjunctions, Prepositions, Interjections, Clauses (types) and Sentences (types). Language skills of listening, speaking, reading and writing (choosing topics for writing, planning, assembling and organizing points, outline preparation, factors of unity, coherence, context, originality, mechanical accuracy and paragraph development). Forms of writing including narrative, descriptive, expository, argumentative, summary, correspondences and speech writing. Use of library including cataloguing systems, locating books/journals, lending/borrowing reference materials, indexing.

GST112: Logic, Philosophy and Human Existence

A brief survey of the main branches of Philosophy. Symbolic logic, special symbols in symbolic logic-conjunction, negation affirmation, disjunction.

GST113: Nigerian History and Culture 2 Credits

Study of Nigerian history, culture and arts in pre-colonial times, Nigerian’s perception of his world; culture areas of Nigeria and their characteristics; evolution of Nigeria as a political unit, Indigene/settler phenomenon, concept of trade, economic self-reliance; social justice; individual and national development; norms and values; Negative attitudes and conducts (cultism and related vices). Re-orientation of moral environmental problems. Principles of good and bad, right and wrong; moral implications of our choices; judgment and actions; morality versus expediency; the role of conscience; moral obligations of citizen
MTH121: Vectors, Geometry And Statistics: 3 Credits
(a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.

MTH122: Differential Equations And Dynamics 3 Credits
(a) Differential Equations: Formation of differential equation of 1st degree and 1st order. Variables, separable, exact, homogenous and linear, differential equations of the 2nd order with constant coefficients.
(c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.

CHM121: General Chemistry II 3 Credits

CHM122 Practical Chemistry II 2 Credits
Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA,111B,IV. Thermal analysis of carboxylic etc.

CHM123: Organic Chemistry II 2 Credits
(a) **Polar Functional Group Chemistry:**
(ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollen’s reagent, Fehling’s solution, benedict’s solution, Lodoform reaction; with HCN, HaHSO₃; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
(iv) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by – OOCOR-X –OR, -NR. Reaction with water, alcohols, ammonia and amines. LIACH₄, Test for esters.

(b) **Miscellaneous Topics:**
(ii) Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.
(iii) Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.
(iv) Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandens definition, importance, examples.

**PHY100: Practical Physics**  
2 Credits
Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: 0-Level or WASC.

**PHY121: Electromagnetism**  
2 Credits
Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.
Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchoff’s laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances. Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.
Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.
Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through passes at low pressure, cathode rays; photo-electricity.
PHY 122  Modern Physics  
Structure of atom: Atomic theory, X-rays, Planck Quantum theory; Wave-particle nature of matter: scattering experiment of Geiger and Marsuen, Rutherford atom model, Bohr’s atom model. Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation. Prerequisite: O-Level or WASC.

PHY123: Vibrations, Waves And Optics:  
Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations. Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

GST 121: Use of Library, Study Skills and ICT  
Brief history of libraries, library and education, University libraries and other types of libraries, study skills (reference services). Types of library materials, using library resources including e-learning, e-materials; etc. Understanding library catalogues (card, OPAC, etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, Hardware technology software technology, input devices, software technology, input devices, storage devices, output devices, communication and internet services, word processing skills (typing, etc).

GST 122  Communication in English  
Logical presentation of papers, phonetics, Instruction on lexis, art of public speaking and oral communication figures of speech, précis, Report writing.

GST123: Communication in French  
Introduction to French, Alphabets and numeric for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

IUITS 102: Igbinedion University Industrial Training Scheme  
A 6-week intensive training program within the university. Introductory lectures on engineering; Exposure and visits to engineering project sites both within the university; neighbourhood; and visit to engineering based establishments. Intensive industrial training in the university engineering workshops, etc. Students submit and defend reports at the end of the exercise. The also write examination.

ELECTRICAL/ELECTRONIC AND COMPUTER ENGINEERING
### 200 LEVEL COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>L</th>
<th>T</th>
<th>P</th>
<th>Course Credit</th>
<th>Pre-requisite</th>
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<tbody>
<tr>
<td>First</td>
<td>EMA201</td>
<td>Engineering Mathematics I</td>
<td>2</td>
<td>1</td>
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<td>3</td>
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<td>ECP201</td>
<td>Engineering Computer Programming I</td>
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<td>-</td>
<td>3</td>
<td>2</td>
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<td></td>
<td>EEE211</td>
<td>Electrical Engineering I</td>
<td>2</td>
<td>-</td>
<td>-</td>
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<td></td>
<td>MEE221</td>
<td>Engineering Drawing I</td>
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<td>-</td>
<td>-</td>
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<td>MEE251</td>
<td>Thermodynamics</td>
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<td>CVE211</td>
<td>Manufacturing Technology</td>
<td>2</td>
<td>-</td>
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<td></td>
<td>ENS211</td>
<td>Strength of Materials</td>
<td>1</td>
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<td>ELA201</td>
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<td>GST211</td>
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<td>1</td>
<td>-</td>
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<table>
<thead>
<tr>
<th></th>
<th><strong>First Semester Total</strong></th>
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<tbody>
<tr>
<td>Second</td>
<td>EMA202</td>
<td>Engineering Mathematics II</td>
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<tr>
<td></td>
<td>MEE212</td>
<td>Engineering Mechanics</td>
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<tr>
<td></td>
<td>MEE242</td>
<td>Material Science</td>
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<tr>
<td></td>
<td>MEE262</td>
<td>Fluid Mechanics</td>
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<td></td>
<td>CPE 204</td>
<td>I.T. in Engineering</td>
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<td></td>
<td>ECP204</td>
<td>Computer and Computing</td>
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<tr>
<td></td>
<td>EEE212</td>
<td>Electrical Engineering II</td>
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<tr>
<td></td>
<td>GST221</td>
<td>Peace study and conflict resolution</td>
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<tr>
<td></td>
<td>CPS221</td>
<td>Community Service Programme</td>
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<tr>
<td></td>
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<td>Community Service Programme</td>
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<td>IUIS202</td>
<td>Lab/Workshop Practice</td>
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<tr>
<td></td>
<td>EPS223</td>
<td>Igbinedion University Industrial Training Scheme Introduction to Entrepreneurial Skills</td>
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<td><strong>Second Semester Total</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>44</td>
</tr>
</tbody>
</table>

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**200 LEVEL:**

**EMA201: Engineering Mathematics I**

3 Credits

(a) Complex Analysis: Roots of a complex number. Addition formulae for any number of angles. To express sine in series or cosines of multiple angles. Exponential function of a complex variable. Circular functions of complex
variable. Hyperbolic functions. Real and imaginary parts of circular and hyperbolic functions. Logarithmic functions of a complex variable. Real numbers; sequence and series; their convergence and divergence.

(b) Vector: Force, moment and angular velocity. Vector differentiation and integration.

(c) Linear Algebra: Linear spaces, algebra of determinants and matrices.

(d) Calculus: Differentiations and applications. The mean value theorem and its applications. Extension of mean value theorem. Taylor and Maclaurin formulae, Liebnitz’s theorem. (Application to the solution of differential equations with variable coefficients), de L’Hospital’s. Partial derivatives of functions of two and more variables.

GST 211: History and Philosophy of Science 2 Credits units
Man-his origin and nature, man and his cosmic environment, scientific methodology, Science and technology in the society and service of man, Renewable and non-renewable resources-man and his energy resources, Environmental effects of chemical plastics, textiles, wastes and other material, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies

CVE211: Strength of Materials 2 Credits
Force systems composition and resolution of forces, moment, couple, resultants of coplanar and three dimensional force systems, graphical methods in statics. Mechanical isolation of bodies, free body diagrams, conditions for equilibrium of coplanar and three dimensional force systems.
Elasticity: concept of uni-axial stress and strain. Typical stress-strain curve in tensile testing, Hooke’s law, Modulus of Elasticity, proportional limit, elastic limit, yield point, ultimate strength, etc. Safe working stress, factor of safety.
Pre-stressing, stresses due to misfits, loop and axial stresses in pressure vessels. Stresses in thin rotating rings, stresses in rotating rods. Bending of Beams: Calculation of reactions in statically determinate beams. Shearing force and bending moment diagrams. Relationship between load, shear force and bending moment. Theory of bending, second moment of area, bending stresses in beams.
Torsion: Elastic torsion of circular shafts, shafts of varying diameter, shafts with varying torque, compound shafts.

ECP201: Engineering Computer Programming 2 Credits
Historical development of computers, functional components of computers, characteristics of a computer, types and classification of computers, computer hardware and software, computer programming statements, input and output, control statements, sub-programs. Solving simple problems using computers programming.

MEE221: Engineering Drawing I 2 Credits

**EEE211: Electrical Engineering I**  2 Credits

**MEE271: Manufacturing Technology I**  2 Credits
Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production. Engineering materials, their uses and properties. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.
Carpentry: Hand-tools, materials, types of joints and fastenings: Bolt, rivet, welding, brazing, soldering, measurement and marking: for uniformity, circularity, concentricity, etc.
Standard measuring tools used in workshops: welding, brazing and soldering: principle, classification, power source.

**MEE 251: Thermodynamics I**  (2 Credits)
Systems, stages, property, interactions, equilibrium, cycle, point and path functions temperature, etc. Thermodynamic Properties of Pure Substances: Perfect gas, specific and latent heats, equations of state. Phases of pore substances – solids, liquids and gases. Phase equilibria and changes critical point, properties of vapours, use of thermodynamic tables.
Heat and Work Transfers first law of thermodynamics, general energy equation and Bernouli’s equation. Engine cycles, air-standard cycle, Otto-cycle, simple gas turbine cycle, Carnot cycle, heat pump, etc. Second law of thermodynamics, entropy irreversibility.

**ENS211: Engineer in Society**  1 Credits
(i) Philosophy of Science
(ii) History of Engineering and Technology
(iii) Safety in Engineering and Introduction to risk analysis
(iv) The role of Engineers in nation building
(v) Invited lectures from professionals.

**EPS 223 Introduction to Entrepreneurial Skills**  (2 Credits)
Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.

The role, principles and practice of entrepreneurship leading to self-employment. Focus on concept of entrepreneurship, identification of entrepreneurial resources or business prospects,
developing a business plan, conducting a market survey, sourcing finance, setting up a business organization, customer appraisal, keeping of basic business accounting records.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELA 201</td>
<td>Laboratory/Workshop Practice</td>
<td>3</td>
</tr>
<tr>
<td>CHE211</td>
<td>Physical Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>EMA202</td>
<td>Engineering Mathematics II</td>
<td>2</td>
</tr>
<tr>
<td>MEE212</td>
<td>Engineering Mechanics II</td>
<td>2</td>
</tr>
<tr>
<td>MEE242</td>
<td>Materials Science</td>
<td>2</td>
</tr>
</tbody>
</table>

**CHE211: Physical Chemistry I**  
(Chem. Engineering students only)  
**Gases:** Behaviour of Gasses. Ideal Gas Law, the Law of Partial Pressure. Gas densities and molecular weights, Equation of state for Real gasses, Liquefaction and gasses.  


**EMA202: Engineering Mathematics II**  
a) Further Integrations: Reduction formulae  
b) Differential Equations –  
   (i) General Review: Exact differential equations. Simple applications in geometry, mechanics, chemical reactions and heat flow.  

**MEE212: Engineering Mechanics II**  
Position, reference frames and coordinates. Types of coordinates. Scalar and vector functions, function differentiation. Derivatives of vectors and moving references, frames, velocities and accelerations, relative motion.  
Kinetics of Rigid Bodies: Translation and rotation about a fixed axis for rigid bodies, general two dimensional motion of rigid bodies, vectoral and no-vectoral techniques, impulse, momentum, energy methods, moments of inertia, equivalent mass and moment of inertia. Simple cases of equivalent dynamic systems. Kinematics of simple harmonic motion. Simple harmonic motion.


Non-Metallic Materials: Non-metallic materials and their properties (glass, natural and synthetic rubber, plastics, ceramics and wood).

MEE262: Fluid Mechanics I 2 Credits
1. Elements of Fluid Statics: Fluid (water, liquid, air); Density; Pressure; Surface Tension; Viscosity; Compressibility, etc.
2. Basic Flow Measuring Devices: Orifices; Weir; V-Notch; Pitot Tube; Venturi Meter, Parshall Flume; Prandtl Tube, etc
3. Static Pressure/Head and Pressure Gauges:
3.1. Pressure Gauges: U-Tube Manometer; Barometer; etc.
3.1.1. Static Pressure and Head:
4. Hydro – Static Forces Exerted on Vessel Surfaces by Incompressible Fluid Hydrostatic force; pressure and head; hydrostatic paradox; Hydraulic Jack, etc
5. Properties of Fluid Section and Buoyancy: Properties of sections; Center of Area; Mass; Volume; Gravity. Buoyancy and Archimedes Principle.
6. Introduction to Basic Fluid Flow
6.1. Basics and Types of Flow:
   (i) Streamlines and Stream Tube;
   (ii) One- Directional Flow; Two- Directional Flow and Three-Directional Flow.
   (iii) Types of Flow: Uniform/Non-Uniform Flow; Steady/Non-Steady Flow; Laminar and Turbulent Flow; etc.
6.2. Introduction to Viscous Flow.

7. Introduction to Fluid Dynamics: Mass; Energy Conservation Laws; Continuity of Flow Equations; Bernoulli’s Equation; etc.

EPS 223 Introduction to Entrepreneurial Skills (2 Credits)
Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.

The role, principles and practice of entrepreneurship leading to self-employment. Focus on concept of entrepreneurship, identification of entrepreneurial resources or business prospects, developing a business plan, conducting a market survey, sourcing finance, setting up a business organization, customer appraisal, keeping of basic business accounting records.

ECP202: Engineering Computer Programming II 2 Credits
Problem solving process, Computing software, computer languages, MATHLAB computing Terminologies, MATLAB as a calculator, variables and assignment statements, basic MATHLAB mathematical functions, suppressing output, product, division and power of Vectors, vectors, plotting elementary functions, Array operations creating specialized plot, Matrices - two Dimensional array, Script writing.

CPE204: Information Technology in Engineering  
2 Credits

EEE212: Electrical Engineering II  
3 Credits

300 LEVEL ELECTRICAL/ELECTRONICS OPTION:

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|          | EEE312      | Electrical Circuit Theory II                        | 2 | 1 | - | 3             | EEE 311        |
|          | EEE322      | Electromechanical Devices and Machines II           | 2 | 1 | - | 2             | EEE321         |
|          | EEE332      | Electromagnetic Theory I                           | 2 | 1 | - | 2             | EEE212         |
|          | EEE372      | Electric circuits II                               | 3 | - | - | 3             | EEE 351        |
|          | EEE352      | Digital Electronics                                | 2 | 1 | - | 3             |                |
|          | EMA302      | Engineering Mathematics IV                          | 3 | 1 | - | 3             |                |
|          | EEE362      | Logic Design and Digital Circuits                  | 2 | 1 | - | 3             |                |
|          | IUITS30     | Igbinedion University Industrial Training Scheme    | 1 | - | - | 1             | IUITS202       |</p>
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**COURSE DESCRIPTION FOR ELECTRICAL/ELECTRONICS:**

**EEE 311: ELECTRICAL CIRCUIT THEORY I**

(3 credits)


**EEE 321: ELECTROMECHANICAL DEVICES AND MACHINES I**

(3 credits)

Review of electromechanical energy conversion, rotating magnetic field; performance and methods of speed control of D.C. Machines, Transfomers; construction, operational phasor diagrams and equivalent circuits, determination of parameters from tests, auto-transformer, three phase transformer connections, groupings, tertiary widings. Instument transformers: current transformers and potential transformers. Power transformers: parallel operation, switching, cooling and protection.

**EEE 331: ELECTRICAL AND ELECTRONICS MEASUREMENT**

(2 credits)


**EEE 351: ELECTRONIC CIRCUITS I**

(2 credits)

Free electrons motion in static electric and magnetic fields, electronic structure of matter, Conductivity in crystalline solids, theory of energy bands in conductors, insulators and semi-conductors: electrons in metals and electron emissions; carriers and transport phenomena in semi-conductors, characteristics of some electron and photo devices junction diodes and transistors, FETS, SCR, vacuum tubes, photo resistors, diodes, transistors, photocell and light emitting diodes. Elementary discrete devices-fabrication techniques and IC technology.

**EMA 301: ENGINEERING MATHEMATICS III**

(3 credits)


**CPE 311: BASIC COMPUTER ENGINEERING**

(3 credits)
Microcomputer construction and manufacture. Minicomputer architecture, advantages and limitations. Type of memory elements, Rom, PROM, EPROM, main and secondary memories. Storage primitives, bits, bytes, word, registers, accumulators.

GRE 331: RESEARCH METHODS AND TECHNICAL REPORT WRITING (3 credits)
Principle of communication. Parts of technical reports: abstract, introduction, main body, conclusions and recommendation, tables, figures, graphs, illustration, references, appendices. Writing the first draft. Revising the first draft; content and structure. Audiences, scientific technical prose: spelling and scientific terminology using numbers and symbols.

Data: statistical analysis of data and display. Software support for various writing and graphic task. Use of Microsoft Power point

Preparation of curriculum vitae, research grant proposal, short talks and poster, and visibility report. Writing a thesis.

EEE 312: ELECTRICAL CIRCUIT THEORY II (3 credits)

EEE 322: ELECTROMECHANICAL DEVICES AND MACHINES II (2 credits)
Induction motors, universal motors, reluctance motors, hyteresis motors. Magnetically coupled circuits, reluctance torque in rotating machines. Armature windings of electrical machines: Conductors, terms coils, coil-span, single and double layer windings. D.C. armature winding (lap and wave) connections. Principles of action of commutator and brush location, types of A.C. windings, e.m.f. of windings, distribution factor and coil-span factor, different harmonics. Basic rotating machines principles: elementary concepts, e.m.f. of distributed windings, rotating magnetic fields torque and voltage for different types of flux density and fluxes.

EPS 311: Introduction to Entrepreneurship Studies 2 Credits
This is the practical part of the programme, where students should be exposed to live ventures. This course is in two folds:
[A]. Theoretical bits to prepare students for the basics of the identified micro-business and industries within the university locality or nearby environs. (We propose the first four weeks of the 1st Semester).
[B]. The practical bits. This would be done in three different stages:
I. Demonstrations/Exhibitions.
II. Excursions for students, to visit owner – operated businesses – within the locality, neighbouring states – including national and international corporations where possible; such as Technology Incubation Centre (TIC) located in Benin City and;
III. Mentoring scheme, in which mentors from within the university locality and neighbouring communities would be identified, contacted registered as a pool of counselors, to whom graduating students, who wish to participate in the scheme would go
for mentoring. Some of the ventures to be focused upon would be tailored along students’ primary courses of studies. These would include, but not limited to:

- Owning/management your clinic/diagnostic laboratory/law firm.
- Soap/detergent/tooth brushes and toothpaste making firm
- Making of sanitary wares
- Glassware production/ceramic production
- Animal husbandry
- Dyeing/textile making
- Brewing
- Table water making factories
- Plumbing
- Vegetable oil and salt extraction factories
- Fisheries

**ELA301: ELECTRICAL LABORATORY I (2 credit)**

**A) ELECTRONICS CIRCUIT LABORATORY**
Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

**B) ELECTRICAL ELECTRONICS MEASUREMENT LABORATORY**
Three laboratory works on electrical measurements to illustrate topics covered in Electrical Measurements and Instrumentation.
Two laboratory works on Electrical Circuits designed to illustrate topics covered in electrical circuits.

**ELA302: ELECTRICAL LABORATORY I (2 credit)**

**A) DIGITAL ELECTRONICS LABORATORY**
Three laboratories practical on digital electronic designed to illustrate topics covered in digital electronics.
Logic Gate and Circuit – AND, OR, NAND, NOR and Exclusive-OR.
Simple switching circuit for the OR and AND GATE, AND Gate in Diode – Resistor-logic and OR gate in diode – resistor-logic.
Simple switching circuit for the NAND gate. Diode Transistor-Logic (DTL), NAND gate and diode-transistor logic NOR gate.
Simple switching circuits illustrating the functioning of the NOR gate, exclusive-OR gate and comparator.

**B) ELECTRONIC CIRCUIT LABORATORY**
Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

**EEE 332: ELECTROMAGNETIC THEORY I (2 credits)**
Vector analysis, Coulomb’s law and electric field intensity; electric flux density. Gauss’s law and divergence, energy and potentials, electric field in conductors and dielectrics. Poisson’s and Laplace’s equations. The steady magnetic field, magnetic force, flux and energy. Ampere’s and Farada’s law.
Magnetic fields in and around current carrying conductors, time varying magnetic and electric fields; conduction and displacement current.
Maxwell’s equations (in rectangular co-ordinates and vector calculus notation)

**EEE 352**  
DIGITAL ELECTRONICS (3 credits)  
Analysis and design of logic gates of various families – diodes logic, RTL, TTL, ECL, MOS, and MOS of digital integrated circuits. Interfacing between various logic families. Concept of small, medium, large, and very large scale integration and their consequences. Some digital building blocks, flip flops, counters, registers and decoders. Introduction to D/A and A/D conversion principles.

**EMA 302:**  
ENGINEERING MATHEMATICS IV (3 credits)  

**EEE 362:**  
LOGIC DESIGN AND DIGITAL CIRCUITS (3 credits)  
Digital Representation of information and Binary Arithmetic. Postional number systems, Binary coding of alphanumeric characters in the computer, simple error detecting and correcting codes (paritybits, Hamming codes), Arithmetic in various radio systems, Binary arithmetic in the combination logic. Boolean Algebra; switching function; truth table, Karnaugh maps etc; properties of switching function; canonical form; N and Nar design; don't cares”, minimization of single output switching functions; simple combinational circuits design; Encoder, decoder, multiplexer, serial and parallel hold and full-adders, etc. Hazards in combinational circuits and other design problems such as fan-in, fan-out, attenuation, etc. Notion of feedback, state and delay in logic circuits; Basic difference between the synchronous sequential circuits; illustration of the sue of state transition equations, diagrams, table etc, in sequential logic by their use in defining the operation of synchronized on docked flip flops (such as r.s. J.K.T. etc, flop-flops). Edge triggered and Master slave flip-flops.

**EEE372:**  
ELECTRONIC DEVICES AND CIRCUITS (3 Credits)  
Conduction in materials, material classification. Basic treatment of the P-N junction, BJTs, and FETs, I-V characteristics and switching properties. Simple linear and diode wave shaping. D.C biasing, Small signal models at low and high frequencies. Temperature effects. Analysis of single stage amplifiers.

**300 LEVEL COMPUTER ENGINEERING OPTION:**

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### 300 LEVEL COURSE DESCRIPTIONS FOR COMPUTER ENGINEERING

**EMA 301: ENGINEERING MATHEMATICS III (3 credits)**

**EEE311: ELECTRICAL CIRCUIT THEORY I (3 credits)**

**GRE 331: RESEARCH METHODS AND TECHNICAL REPORT WRITING (2 credits)**
Principle of communication. Parts of technical reports: abstract, introduction, main body, conclusions and recommendation, tables. Figures, graphs, illustration, references, appendices. Writing the first draft. Revising the first draft; content and structure. Audiences, scientific technical prose: spelling and scientific terminology using numbers and symbols.

Data: statistical analysis of data and display. Software support for various writing and graphic task. Use of Microsoft Power point for presentation, defence etc

Preparations of curriculum vitae, research grant proposal, short talks and poster, and visibility report. Writing a thesis.

**EEE321 ELECTROMECHANICAL DEVICES AND MACHINES I (3 credits)**
Review of electromechanical energy conversion, rotating magnetic field; performance and methods of speed control of D.C. Machines.


EEE331: ELECTRICAL AND ELECTRONICS MEASUREMENT (2 credits)
Electron dynamics, cathode ray tube, application of the oscilloscope in measurement, a.c. and dc indicating instruments and their dynamic behaviour. DC and ac bridges and potentiometers, Sensors for transducers. Electronic instrument system: analogue instruments, digital instruments, analogue-to-digital and digital-to-analogue conversion technique.

EEE351: ELECTRONIC CIRCUIT 1 (3 credits)
Free electrons motion in static electric and magnetic fields, electronic structure of matter, Conductivity in crystalline solids, theory of energy bands in conductors, insulators and semi-conductors: electrons in metals and electron emissions; carriers and transport phenomena in semi-conductors, characteristics of some electron and photo devices junction diodes and transistors, FETS, SCR, vacuum tubes, photo resistors, diodes, transistors, photocell and light emitting diodes. Elementary discrete devices-fabrication techniques and IC technology.

ELA301: ELECTRICAL LABORATORY I (2 credit)
A) ELECTRONICS CIRCUIT LABORATORY
Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

B) ELECTRICAL ELECTRONICS MEASUREMENT LABORATORY
Three laboratory works on electrical measurements to illustrate topics covered in Electrical Measurements and Instrumentation.
Two laboratory works on Electrical Circuits designed to illustrate topics covered in electrical circuits.

EMA 302: ENGINEERING MATHEMATICS IV (3 credits)

EEE312: ELECTRICAL THEORY II (3 credits)
CPE302: COMPUTER PROGRAMMING AND LANGUAGE I (2 Credits)
Program organization, characteristics, constants and variables, arithmetic expression, standard functions, arithmetic, assignment, statement, input/output statement and adding of C++ and PL/ programs. Transfer of control (conditional/unconditional transfer). Relational expression, loops, arrays and subscripted variables, functions and subroutine, logical variables and operators, introduction to object oriented programming.

EEE352: DIGITAL ELECTRONICS (3 credits)
Analysis and design of logic gates of various families – diodes logic, RTL, TTL, ECL, MOS, and MOS of digital integrated circuits. Interfacing between various logic families. Concept of small, medium, large, and very large scale integration and their consequences. Some digital building blocks, flip-flops, counters, registers and decoders. Introduction to D/A conversion principle.

EEE362: LOGIC DESIGN AND DIGITAL CIRCUIT (3 credits)
Digital Representation of information and Binary Arithmetic. Positional number systems, Binary coding of alphanumeric characters in the computer, simple error detecting and correcting codes (parity bits, Hamming codes), Arithmetic in various radio systems, Binary arithmetic in the combination logic. Boolean Algebra; switching function; truth table, Karnaugh maps, etc. properties of switching function; canonical form; N and Nar design; don’t care; minimization of single output switching function; simple combinational circuit design, Encoder, decoder, multiplexer, serial and parallel hold and full-adders, etc. Hazards in combinational circuits and other design problem such as fan-in, fan, attenuation, etc. Notion of feedback, state and delay in logic circuits; Basic difference between the synchronous sequential circuits; illustration of the use of state transition equations, diagrams, table, etc, in sequential logic by their use in defining the operation of synchronized on docked flip flops (such as R-S-J-K, etc, flip-flops). Edge triggered and Master slave flip-flops.

EEE 332: ELECTROMAGNETIC THEORY I (3 credits)
Vector analysis, Coulomb’s law and electric field intensity; electric flux density. Gauss’s law and divergence, energy and potentials, electric field in conductors and dielectrics. Poisson’s and Laplace’s equations. The steady magnetic field, magnetic force, flux and energy. Ampere’s and Farada’s law. Magnetic fiels in and around current carrying conductors, time varying magnetic and electric fields; conduction and displacement current. Maxwell’s equations (in rectangular co-ordinates and vector calculus notation)

CPE322: OPERATING SYSTEMS (2 Credits)

ELA302: ELECTRICAL LABORATORY I (2 credit)
A) DIGITAL ELECTRONICS LABORATORY
Three laboratories practical on digital electronic designed to illustrate topics covered in digital electronics.

Logic Gate and Circuit – AND, OR, NAND, NOR and Exclusive-OR.
Simple switching circuit for the OR and AND GATE, AND Gate in Diode – Resistor-logic and OR gate in diode – resistor-logic.
Simple switching circuit for the NAND gate. Diode Transistor-Logic (DTL), NAND gate and diode-transistor logic NOR gate.
Simple switching circuits illustrating the functioning of the NOR gate, exclusive-OR gate and comparator.

B) ELECTRONIC CIRCUIT LABORATORY

Three laboratory works designed to illustrate topics covered in electric circuits and physical electronics.

400 LEVEL ELECTRICAL/ELECTRONICS OPTION

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First Semester Total 26

Second INDUSTRIAL TRAINING (IUITS 402) SIX MONTHS 6

Total Credits 32

400 LEVEL COURSE DESCRIPTION FOR ELECTRICAL/ELECTRONICS

EMA401: ENGINEERING MATHEMATICS V 3 Credits


(b) **Integral Transforms:** Laplace and Fourier transforms. Application to boundary value problems.

(c) **Introduction to Non-Linear Differential Equations:**

(d) Stability of Linear systems and the phase portraits.

(e) Long time behaviour of the solution of non-linear differential equations deduced from related linear systems.

(f) **Calculus of Variation:** Lagrange’s equation and applications. Hamilton’s principle and Geodesic problems (formal proofs of the related theorems will not be required). Isoperimetric problems:

(i) **Probability:** Probability laws, conditional probability and dependence of events. Discrete and continuous probability distribution. The probability function; the density function and the distribution function. Expected values; moments, standard distributions, binomial, Poisson, normal.

(ii) **Statistics:** Regression and Correlation: The method of least squares; linear and curvilinear regression. Correlation, total, partial and multiple. Large sampling theory: Sampling distribution of mean, proportion, difference of means and proportion. Confidence interval for mean, proportion, difference of two means and proportions.

(g) **Test of Hypotheses:** Types I and II errors. Power of a test. Large sample-test concerning the mean, proportion, difference of two means and proportions.

EEE 411 ELECTROMECHANICAL DEVICES & MACHINES III (3 credits)

Synchronous Machines: Theory of the cylindrical motor machine, synchronous reactance and voltage regulation by different methods, parallel operation and operation on finite bus bars, faults on machines, methods of starting electrical machines, methods of protection of electrical machines.

EEE 421: ENERGY GENERATION AND UTILIZATION (3 credits)


EEE 431: BASIC CONTROL THEORY (3 credits)


D.C. Blas design, analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback, amplifiers.

EEE401: ELECTRICAL POWER AND MACHINES LABORATORY (2 credits)
Three laboratory works on electric machines designed to illustrate topics covered in Electromechanical Devices and Machines.

TELECOMMUNICATION LABORATORY (1 credit)
Three laboratory practicals on telecommunication designed, to illustrate topics covered in Communication principles as well as topics such as passive filters, turned circuits and active analogue filters.

EEE 441: ELECTRONICS CIRCUITS II (3 credits)
D.C. Bias design: analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback amplifiers. The differential amplifier and basic analysis of the operational amplifier. Computer aided design of electronic circuits.

EEE 451: TELECOMMUNICATION PRINCIPLES I (3 credits)
Transmission lines, rectangular wave guide junctions and resonators; Radiation antennas. Electromagnetic propagation in the troposphere and ionosphere. Microwave filters.

EEE 461: ELECTRICAL AND ELECTRONICS INSTRUMENTATION (3 credits)

EEE471: ELECTROMAGNETIC THEORY II 3 Credits
Derivation of Maxwell’s equations. Electromagnetic potential and waves. Propagation of electromagnetic waves in free space and in materials, dielectrics, conductors and
ionized media; penetration depth, reflection and transmission at boundaries; poynting vectors and power flow; Fundamentals of transmission.

400 LEVEL COMPUTER ENGINEERING OPTION

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First Semester Total: 25

2nd | IUITS 401 | Industrial Training (6 months) | 6 |

Second Semester Total: 6

Total Credits: 400

400 LEVEL COURSE DESCRIPTIONS FOR COMPUTER ENGINEERING

EEE431: CONTROL THEORY (3 credits)


EEE411: ELECTRONIC AND TELECOMS LABORATORY III (1 credit)
Three laboratory practicals on telecommunication designed, to illustrate topics covered in Communication principles as well as topics such as passive filters, tuned circuits and active analogue filters.

**CPE401: COMPUTER AND CONTROL LABORATORY III**
Some selected laboratory practicals in computer and control engineering, to illustrate topics covered in digital devices, switching theory and logic circuit and design.

**EEE441: ELECTRONIC CIRCUITS II (3 credits)**
D.C. Bias design: analysis and Design of single stage and multiple stage amplifiers at low and high frequencies, Darlington pair, cascade amplifier, Bootstrapping. Negative feedback concepts and design of feedback amplifiers. The differential amplifier and basic analysis of the operational amplifier. Computer aided electronic circuit design.

**EEE451: TELECOMMUNICATION PRINCIPLES I (3 credits)**
Transmission lines, rectangular wave guide functions and resonators; Radiation antennas. Electromagnetic propagation in the troposphere and ionosphere. Microwave filters.

**EEE461: ELECTRICAL AND ELECTRONICS INSTRUMENTATION (3 credits)**

**CPE421: DIGITAL DEVICES AND LOGIC CIRCUITS**
Introduction to Analysis and Design of Digital Systems. Boolean algebra and Karnagh Maps. Implementation of Logic expression using logic base. Introduction to circuit devices. Minimization of Boolean function: by stable or memory circuit; pulse waveforms, IC a stable multi-vibrator, MST waveforms, generator, cloth, sleep-flops, decoding binary-to-decimal numbers, FET gates and CMOS multivibrators. State machine analysis and design; state assignments, redundant stage, sequential counters and synchronous systems, synchronous system approach to digital systems design, top down design, trial and error methods. Von Neumann machines and memory systems.

**CPE431: SWITCHING THEORY AND LOGIC DESIGN**
Switching devices; minimization of Boolean functions. Tabular minimization and multiple-out circuits. Special realization and codes; special realization and codes. Sequential circuits and synthesis of clock mode sequential circuits. Pulse-mode circuits. Level mode sequential circuits. LSI, MSI and threshold logic.

*500 LEVEL ELECTRICAL/ELECTRONICS OPTION*
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*Note: students can only offer 1 of the required course*
At the 500 level the students are expected to register Electrical/Electronics Engineering courses and a Management course (GRE501 & GRE502) common to all students at this level in the College.

EEE 511: ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION  
(3 credits)  
Modes of power transfer, transmission and distribution parameters, equivalent circuit of a line, transmission line design, overhead line and underground cable system, overhead line construction, voltage drops in lines, conductor design for transmission and distribution lines. Substation layout, neutral earthing, National and International Regulations government overhead lines.

EEE 521: POWER SYSTEMS ENGINEERING (3 credits)  


EEE 531: RELIABILITY AND MAINTAINABILITY OF ELECTRICAL AND ELECTRONIC COMPONENTS (3 credits)  
Introduction to reliability, maintainability, availability, Elementary reliability theory, Application to power systems and electronic components; Test characteristics of electrical and electronic components. Types of faults. Designing for higher reliability. Packaging, Mounting, Ventilation, Protection from humidity, dust.

EEE 541: ELECTRONIC CIRCUITS II (2 credits)  
The push-pull and power amplifiers. Digital logic circuits (KTL, DTL, TTL, etc), switching characteristics, OP-AMP applications: active filters, comparators, analogue computing etc. Oscillator circuits; switching circuits: Multi-vibrators and flip-flops. Power electronic: Stabilized power supplies, power control.

EEE 551: TELECOMMUNICATION PRINCIPLES II (2 credits)  
Time and frequency analysis of telecommunication signals; Fourier series and Fourier transforms. Gaussian noise and its statistical representation: signal to noise ratio, noise factors and figure definition and measurements. Introduction to telecommunication systems: Modulation and demodulation principles for A.M. and F.M., simple modulators and
demodulators, pulse modulation principles. Information theory and coding: Shannon and Hartley laws.

EEE 561 AND 562: PROJECT (6 credits)
This course last for one academic session. Each student must undertake a project under the supervision of a Lecturer, submit a comprehensive project report and present a seminar at the end of the year. A project status report is to be presented at the end of the first semester. Each student must attend Engineering seminars.

EEE 502: ELECTRICAL SERVICES DESIGN (3 credits)

EEE 512: POWER SYSTEMS, PLANNING AND DESIGN (3 credits)
Overall planning of power systems and design: Power system equipment, selection and application. Sub-station Designs: general requirements, electrical layout and specifications, overhead lines and underground cable design, Transmission and distribution system design, Preparation of Bills of Engineering Measurement and Evaluation (BEME). Computer Aided Design of power systems.

EEE 522: INDUSTRIAL ELECTRONIC DESIGN (3 credits)
Characteristics and industrial applications of thyristors and other SCR devices. Transducers and their applications in sensing light, voltage, pressure, motion, current, temperature, etc. Mechanical relays, solid state relays and stepping motors. Real time control and remote control concepts in instrumentation, Microprocessor and microcomputer based systems. Fire alarms, burglar alarms and general home and industrial instrumentation.

EEE 532: ELECTRICAL MACHINES DESIGN (3 credits)

EEE 542: TELECOMMUNICATION SYSEMS (3 credits)
Introduction to the following telecommunication systems; telephone, telegraph, Radio and television, radar, sonar and Laser. A detailed study of telephone and television system will be done. Introduction to optical communication.
Introduction to Antenna, Definition of elementary parameter related to radiation patterns, (radiation resistance, gain directive, directive area). Introduction to antenna arrays.
Linear arrays; broadside and end field arrays. Radio propagation in helonesphere, troposphere and in stratified media. Principles of scatter propagation applications in general broadcast (television and satellite communication) systems. Radar systems (Nature of radar equations, composition of a radar system, application of different types of radars).

EEE 552: DIGITAL SIGNAL PROCESSING (3 credits)

EEE 582: CONTROL SYSTEMS ENGINEERING (3 credits)
Review of basic control theory. Analysis and design using root locus. System optimization using error criteria. Non-linear systems: Describing function and phase plane methods. Multivariable system. Advanced analogue and hybrid computing. Control schemes for electric Drives. Practical feedback control loops and their effects on stability; displacement, velocity, power factor and reactive power control sensors; Gain requirements and accuracy, loop transfer function; logic circuits and static switching control applications. Timing and counting circuits.

EEE 572: ELECTRIC DRIVES AND POWER ELECTRONICS (3 credits)
**Electric Drives:**
Individual, group and collective drives; review of starting and running characteristics of electric motors, thermal rating, duty cycle, heating and cooling time constant of motors; dynamic performance and Mechanics of motor-load systems; load fluctuation and load equalization; speed control and speed-time relation of motors; electric breaking; energy consumption; selection of motors for specific services.

**Power Electronics:**
Basic characteristics, specification and ratings of thyristors, phase control; thyristor modules and trigger pulse circuits, current limiting device, converters and inverters, choppers and cyco-converters, speed control of d.c and a.c. motors using thyristors, frequency control of inverters and converters.

EEE 582: COMPUTER NETWORKING (3 credits)

EEE 592: COMPUTER ENGINEERING (3 credits)
Combinational and synchronous sequential circuits. An overview of computer architecture and organization. Micro-processors: micro-programming, machine and assembly language programming. (Emphasis in this course will be on machine and assembly language programming of, as an example, a microprocessor, basic ideas of programming and data structures will be illustrated through programming assignments), micro-processor applications; Impact IC technology.
### 500 LEVEL COMPUTER ENGINEERING OPTION:

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**Note:** students can only offer 1 of the elective courses

### 500 LEVEL COURSE DESCRIPTIONS FOR COMPUTER ENGINEERING

**EEE531: RELIABILITY AND MAINTAINABILITY OF ELECTRICAL AND ELECTRONIC COMPONENTS (3 credits)**

Introduction to reliability, maintainability, availability, elementary reliability theory, application to power systems and electronic components. Test characteristics of electrical and electronic components. Types of fault. Designing for higher reliability. Packaging, Mounting, Ventilation, Protection from humidity, dust.

**EEE541: ELECTRONIC CIRCUITS II (3 credits)**

The push-pull and power amplifiers. Digital logic circuits (KTL, DTL, TTL, etc), switching characteristics, OP-AMP applications: active filters, comparators, analogue computing, etc. Oscillator circuits, switching circuits, Multi-vibrators and flip-flops. Power electronic: stabilized power supplies, power control.
EEE551: TELECOMMUNICATION PRINCIPLES II (3 credits)

EEE560: PROJECT (6 credits)
This course last for one academic session. Each student must undertake a project under the supervision of a Lecturer, submit a comprehensive project report and present a seminar at the end of the year. A project status report is to be presented at the end of the first semester. Each student must attend Engineering seminars.

EEE552: DIGITAL SIGNAL PROCESSING (3 credits)

EEE562: CONTROL ENGINEERING (3 credits)
Review of basic control theory. Analysis and design using root locus. System optimization using error criteria. Non-linear systems. Describing function and phase plane methods. Multivariable system. Advanced analogue and hybrid computing. Control schemes for electric Drives. Practical feedback control loops and their effects on stability; displacement, velocity, power factor and reactive power control sensors; Gain requirements and accuracy, loop transfer function; logic circuits and static switching control applications. Timing and counting circuits.

EEE582: COMPUTER NETWORKING (3 credits)

EEE592: COMPUTER ENGINEERING (3 credits)
Combinational and synchronous sequential circuits. An overview of computer architecture and organization. Micro-processors: micro-programming, machine and assembly language programming. Emphasis in this course will be on machine and assembly language programming of, as an example, a microprocessor, basic ideas of programming and data structures will be illustrated through programming assignments), micro-processor applications; Impact IC technology.

CPE511: DIGITAL COMPONENTS AND SYSTEM (3 credits)
The memory system – introduction, multiple data registers, register address decoding and selecting and combining register outputs. Random-Access Memory (RAM) a typical RAM
device, mechanical and electrical characteristics, functions characteristics, configuring memory devices to create large memories; address coding and Timing considerations of RAM usage. Read-Only Memory (ROM) – Mask programmable Read-Only Memory (EPROM). The processor-input-output signals and basic functional characteristics. A microprocessor system configuration.

CPE521: COMPUTER SYSTEMS ANALYSIS (2 credits)
Operational analysis of scientific business and industrial data processing systems; system-flow-charting and modeling, computer simulation; specification of computer hardware/software systems for effective simulation; cost/benefit analysis of alternative systems, optimal system design. Case studies of typical systems.

CPE552: ARTIFICIAL INTELLIGENCE (2 credits)
Introduction: Definition of AI concepts in engineering medical and numerical applications. Intelligent computers, levels of functions, basis of design, unicellular, multi-cellular, APLC concepts and multi-media systems. Missiles and robotics machines and degree of sensitivities. Expert system as are offshoot of AI, knowledge of inference (inference reasoning human – machine – human, machine-human-machine). Knowledge of automated forms. Military controlled equipment and targets (e.g. rockets). Computer aided design (CAD) and introduction to genetic programming. Brain swapping and knowledge programming.

CPE525: COMPUTER ARCHITECTURE (2 credits)
Introduction to design techniques and synthesis of digital computers ALU CONTROL, CPU, I/O DEVICES and co-processors. Principles of computer structure and design as applied to major computer component functions. Bus: architecture, plug and play systems. Duplex, double 8888 module and single non-module. Design methodology, processor and CPU design, memory organization, input-output communications and multiple CPU systems.

CPE531: COMPUTER SOFTWARE ENGINEERING (2 credits)
Survey and analysis of important programming languages, machine languages and operating systems, compiler construction, bit, word lines compilation syntax and logic, diagnostic check and parity control, debugging and processing techniques. Binary I/O systems (BIOS). ROM and RAM: Level device handlers. Direct Memory Access (DMA) Interrupt Request Acknowledge (IRA) Memory, display generation of points, vector and graphic displays, interactive versus passive displays, analogue and digital storage, scanning of spectral, feature recognition and graphical software.

CPE541: DIGITAL COMPUTER & COMMUNICATION NETWORKS (2 credits)
Communication within computer systems addressing and data bases; CPU memory-I/O devices communications. Communication between lost versus parallel communication. Hardware elements of networks; design, terminals, modems, multiplexes and concentrators. Message and package switching, software elements of computer network – host operating systems – Network topology and protocols.

CPE522: PROCESS AND MACHINE CONTROL (2 credits)
Digital, Analog and hybrid computer systems of control of industrial and commercial processes, and for the numerical control of machines. Reliability, stability and sensitivity analysis.

CPE532: ANALOG AND DIGITAL COMPUTERS (2 credits)
Random Variables, probability, moments and limit theorems. Random processes, stationary, periodicity, correlation functions and power spectra. Sampling theorem, narrow and band processes. Linear systems with random inputs. Filter analog and digital. Noise characteristics. Introduction to statistical decision theory as applied to binary detection and receiver operating characteristics.

CPE561/562: FINAL YEAR PROJECTS (3 credits)
A project is selected by each final year student from a list of broad options areas viz: Computers, Telecommunications, Electronics and Applications, etc. A student working under the supervision of an academic staff within the Department is required to submit a report on his findings. He will be required to present these findings at a seminar and undergo oral examination on the project.

CPE513: COMPUTER GRAPHICS (2 credits)
Computerized pattern recognition systems; distortion tolerance, resolution and discrimination. “Light pen” and other computer-assisted methods for analysts and synthesis of architectural structures, mechanical systems, electromagnetic and electronic networks.

CPE512: MACHINE AND ASSEMBLY LANGUAGE
Utilization of extensive software library for BASIC Computer system. Monitor systems; supervisors, disk utility programs, assemblers, compilers, core load builders, detailed study of compiler for binary Boolean formula translation (BITRAN, FORTRAN, PASCAL, C and C+ +)

COURSE DESCRIPTION (ELECTIVE)
CPE512: MACHINE AND ASSEMBLY LANGUAGE (2 credits)
Data and instruction formats; addresses; registers, load store and branch instructions, arithmetic, logic and shift instructions; executive, I/O instructions and the interrupt process. Assembler mnemonics; program control and storage allocation statements; data and symbol definition; calls to subroutines. Debugging technique. and assembly language in mixed language programs.

CPE 519: MICRO-PROCESSOR FUNDAMENTAL APPLICATIONS
2 Credits
Historical Development and Structure
Microprocessor systems
Microprocessor Architecture
Support Logic for Microprocessor
Current Development
Software Considerations and Requirements
Micro Controllers
CPE510: MICRO-PROCESSOR SOFTWARE DEVELOPMENT  
Credits 
Overview of embedded system, software development 
Alternative Development, Environments and Tools 
Recent Trends and Selections criteria 
Assembly programming and Assembler 
Programming with a High level language, compiler specific integration of modules 
Linking and locating of code to the target system 
Programming of EPROM, Loading function. 
Design and implementation of software (using a development system) 
Resident and Remote Debuggers in testing debugging 
Methods and tools for configuration management and coordination.

EPE520: COMPUTER HARDWARE  
2 Credits 
Review of the Computer Systems 
Computer Availability 
Peripherals 
Interface and Inter-connections of Computer Systems 
Memory modes 
Computer reliability.

3.0 FINAL YEAR PROJECT AND THESIS 
A project is extremely important part of the engineering degree programme. Although lectures and laboratory experiments are designed to improve learning process, project supplements this process by starting the student on to the path of independent thinking. The student will be required to carry out independently a small project which would enable him to develop his thought processes, creativity, problem-solving ability, initiative, and attitude to work.

3.1 The nature of the project may be one or more of the following: 
(a) Developing a theory for solving a problem 
(b) Developing computational procedures for solving a problem 
(c) Setting up an experiment for demonstrating an establishing theory. 
(d) Building a working system form established plans and testing the system 
(e) Developing a design routine for a device, constructing it (if required for the project ) and testing it 
(f) Investigating specific problems which may arise in governmental Institution, Industrial firms, and other private bodies of corporation in the country. 
(g) Investigating causes of failure of any specific plant or device and suggesting remedies, if any. 
Examination regulation stipulates that “project and thesis” would carry marks equivalent to two 2-hour paper in the final examination. For the purpose of making, an oral examination will be held in which the student will be required to defend his project.

3.2 How to Select a Project: 
A project should normally be chosen from fields related to the specific subject selected by the student for the final year degree examination.
In selecting a topic for a project, it is expected that the student goes through the subject titles of papers (in the field of interest) published during the last ten years in engineering journals. Some of these journals are present in Appendix. A student, first of all go through the subject headings as listed in “Civil Engineering Abstracts” or “Applied Science and Technology Index”. The specific journal in which the paper of interest is published is then consulted and all references listed in the paper collected. A likely project or problem if found the student discuss it with his lecturers who will instruct as to whether equipment could be made available for the project and whether any staff member would be willing to act as a supervisor. The student would then prepare a rough outline of the proposed project listing all references materials and submit it to the supervisor. The supervisor after establishing feasibility of the project, would give final go-ahead or possibly suggest something different, or modification in which the supervisor himself is interested. The ideal situation is one where the chosen project coincided with a supervisor’s area of interest. For this reason, member of staff are requested to design projects in their areas of research interest. Students can then choose their project from a list of such project topics. Whenever practicable, students should know their projects long before the beginning of the session.

3.3 Basic precepts regarding Engineering Projects:
Two of the most important aspects of a project work include the preparation and organization. Preparation and organization are of the utmost importance in writing the report on the project if someone else is to understand the work. Preparation requires a careful reading of the instruction and collateral material (references, manuals etc), a clear understanding of each step involving in the required procedures before the actual execution of the project, and often a written planned programme (rough outline of proposed, degree to be investigated, preliminary calculations, etc). Organization is a guiding principle to be followed throughout then preparation, execution and reporting of a particular. A good organisation, entails the neat construction or design of the model they may be easily visualized and checked, systematic entering of data with descriptive headings and entering of all relevant information regarding equipment used.

3.4 Writing Thesis:
3.4.1 Allocation of Available Time:
A student should aim at his project at about the middle of the second semester, and submit the typed and bound copies of the project two weeks to the beginning of second semester examinations. The time schedule should be roughly as follows:

- Initial preparation..............................................6 weeks
- Practical Work connected with the project...............10 weeks
- Write-up and submission of draft Thesis...................4 weeks
- Supervisor’s and comment on draft project..............3 weeks
- Typing, correction and binding of final thesis...........4 weeks

3.4.2 Organization of Thesis:
Before adopting a format for your project, it is necessary to read the information for author of any Civil Engineering journal reference: Menzel, Jones and Boyd, “Writing a Technical Paper”, McGraw-Hill, 1961.
A formal report on a project may follow below and could include the following:
Abstract: A concise description of the report including the purpose and most important result in the order in which they occur in the report paper.

Introduction: A complete statement of the problem an outline of the theory involved in the solution, and a brief statement concerning the expected results.

Body: of the report should include;
(c1) Procedure: a brief outline of the actual constructional experimental, computational, or other methods followed including necessary circuit diagrams.
(c2) Presentation: Of Result, an appropriate presentation of the original and processed data-lists, tables, graphs. Sample calculations must be shown.
(c3) Conclusion: an interpretation of the results as they apply to the objectives of the project set out in the introduction. Any deviation from the expected or theoretical results is to be accounted for.
(c4) Recommendations: any recommendations arising from the project work should be presented.
(c5) Limitations of Work: some assumptions made to simplify the work are examined in the light of the results.

References: Should be to commonly available publications and books. These should be listed at the end of the paper and number 1, 2, 3 etc. All reference should be referred to at least one in the text so as to justify their presence and relevance to the project. It is good practice to refer to a reference by its number (shown as superscript or subscript or written within parenthesis) in the text.

Appendices (if any): it is normal to set out construction details of a model, complex mathematical derivation of a theory, lengthy computation procedures etc., in appendices. They should be referred to in the text to justify their inclusion.

3.4.3 Binding and Number of Copies Required:
A minimum of four copies of the project is required, after typing the top copy (for the Department) and one other copy (for interview panel) should be handed over to the Department after Binding. The student should bind the remaining two copies (at his own expense) one of which should be handed over to the supervisor.

3.4.4 Organisation and Display of the Project Work:
Proper organization of a project work may be achieved by making reference to the following publications:
The student should normally display the essentials (short theory, models, input data, desired results, etc) of a project and talk about or demonstrate them to visitors, or discuss his project in a seminar held during the session.
Display materials should therefore be prepared and preserved until the day of the oral examination. These should prove invaluable in explaining the project work to the member of the examination panel or to the external examiner.

3.4.5 Project and Thesis Assessment:
Your supervisor is the only other person apart from you who understand the problem as much as you do. Therefore, his opinion about you will count most in assessing your work. In giving his opinion, he should probably consider the following:

(a) The level of supervision or guidance he has been able to give you;
(b) The level of achievement you attain during the project with or without his guidance;
(c) Your ability to solve the problem posed by the project and how much of his was through your own effort;
(d) Whether you kept a day-to-day record (in the log-book) of the progress made and whether you discussed with him form time to time any problems you been confronted with.

The supervisor’s marking of the project will be to the extent of 20%, the remaining 80% being allocated to the panel for the oral Examination (20%) and to a second reviewer/assessor. The members will assess you on the following:

(a) Your understanding of the subject you investigated
(b) Your ability to answer questions (and explain points) on the work you have done.
(c) Your project presentation and layout.

You may further be interviewed by the external examiner, or whenever a review of the grading by the supervisor and the panel become necessary.

4.0 BECOMING A CHARTERED ENGINEER

To become a fully qualified professional engineer, graduates must be registered by the Council for the Regulation of Engineering in Nigeria (COREN). They can then use the letters C.Eng. After their names, indicating that they are a Chartered Engineers. The requirements are: an enhanced degree, i.e. a B.Eng., and a minimum of two years’ approved industrial training with an appropriate company. The national youth service year is often counted as one if spent with an appropriate engineering enterprise.

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Table 1.7: Technical Staff
MECHANICAL ENGINEERING

DEPARTMENTAL VISION
The vision of the department is to become one of the best Mechanical Engineering Departments in any Nigerian University with national and international acclaim. A department where the advancement of engineering and technology is continuously dynamic. Its graduate will become very capable and environmental-friendly engineers who would be very relevant in the public and private sectors of the economy and rapid industrialization and development of Nigeria.

DEPARTMENTAL MISSION
The departmental mission is to develop into a national resource that will continue to support the development of Nigeria, its economic diversification to make it responsive to the needs of government, industry and society. Thus, the department will provide:

- State-of-the-art technological and Engineering training that prepares the graduates for responsibilities of the workplace.
- To produce qualified and competent Mechanical Engineers in such areas of specialization as –metallurgy, fluid, mechanics of machine and Thermodynamics
- Engage in appropriate research activities, and, hence, produce the most sought-after engineers by all employers of labour, post graduate schools and research institutes.
- Establish industry-institution linkages for mutually beneficial relationships
• Strive to become a Centre of Excellence in Engineering and Technology in the West-African sub-region where expertise and facilities to accelerate the pace of industrial development can be provided.

OBJECTIVE OF PROGRAMME

The objective of this programme is in consonance with the realization of national needs and aspirations vis-à-vis industrial development and technological emancipation. The graduates must therefore be resourceful, creative, knowledgeable and able to perform the following:

i. To design Mechanical Engineering projects and supervise their implementation.

ii. To design and implement components, machines, equipment and systems.

iii. To design and develop new products and production techniques in industries.

iv. To install and maintain complex engineering systems so that they can perform optimally in our environment.

v. To be able to exercise original thought, have good professional judgment and be able to take responsibility for the direction of important tasks.

MINIMUM CREDIT LOAD FOR GRADUATION

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**FIRST SEMESTER**

CHM111 – General Chemistry I  
3 Credits


The states of matter:
(v) Gases: Gas Law. The general gas equation.
(vi) Liquids and Solids – Introduction to lattice structure, Isomorphism. Giant molecules.
   Introduction to the Periodic Table. Hydrogen and hydride Chemistry of Groups 0, I, II elements. Acid-Base properties of oxides.

CHM112: Organic Chemistry I 2 Credits
(a) General Principles of Organic Chemistry:
   (ii) General procedure for isolation of purification of organic compounds.
   (iii) Determination of structure of organic compounds. Elemental analysis, percentage composition, empirical and molecular formula, structural formula.
   (iv) Isomerism. Structural isomerism and stereo isomerism.
(b) Non-Polar Functional Group Chemistry:
   (i) Alkenes: Structure and physical properties. Substitution actions including mechanism.
   (ii) Alkenes – Structure and physical properties. Reaction: addition (of H₂, X₂, HX, H₂O, O₃), etc; Oxidation polymerization. Stereoisomerism – definition, geometrical and optical isomers, conditions for optical isomerism.
   (iii) Alkynes, structure. Acidity of acetylenic hydrogen. Reaction: addition of H₂, X₂, HX, H₂O, H₂, O₂, etc. Test for Alkynes.
   (iv) Benzene: Structure and aromaticity of benzene. Introduction to electrophillic.
   (v) Introduction to petro-chemistry. Origin of petroleum importance, fractional distillation of crude oil, components properties and uses. Octane number, cracking.
   (vi) Coal tar chemistry, origin, production, important components and uses.
(c) Practical Organic Chemistry:
   Experiments in basic techniques in organic chemistry: determination of melting points and boiling points, filtration, distillation, fractional distillation, re-crystallization, tests for functional groups: organic preparations.

MTH111 – Algebra And Trigonometry 3 Credits
   Sets and Subsets, union, intersection, complements, properties of some binary operations of sets; distributive, closure, associative, cumulative laws with examples, relations in a set; equivalence relation. Properties of set functions and inverse set functions, permutations and combinations.
Complex numbers; algebra of complex numbers, the Argand diagram, De Moivre’s theorem, n-throot of unity.

MTH112: Calculus/Real Analyses - 3 Credits

PHY111: Mechanics, Thermal/Physical Properties of Matters - 2 Credits
Mechanics: Scalars and Vectors: Addition and resolution of vectors. Rectilinear motion and Newton’s law of motion. Inertial mass and gravitational mass; free fall; projectile motion; deflecting forces and circular motion. Newton’s law of gravitation; satellites, escape velocity. Gravitational potential, potential; potential well; special case of circular motion. Momentum and the conservation of a momentum. Work, power energy; units. Potential energy for a gravitational field and elastic bodies; kinetic energy conservation of energy; energy stored in a rotating body. Kinetic energy in elastic and inelastic collisions.

PHY112 General Physics 2 Credits

PHY113 Thermal Physics: 2 Credits
Temperature, heat, work; heat capacities; second law, Carnot cycle; thermodynamic ideal gas temperature scale. Thermal conductivity; radiation; black body and energy spectrum, Stefan’s law.
Kinetic model of a gas: equation of state, concept of diffusion, mean free path, molecular speeds, Avogadro’s number, behaviour of real gases. A model for a solid: inter-particle forces in solids, liquids and gases; physical properties of solids.
Crystalline structure: Close packing, orderly arrangements, elastic deformation of an ordered structure; interference patterns and crystals.
Model for Matter: Surface energy and surface tension, plastic deformation; thermal and electrical properties of metals.

GST111: Communication in English I (2 Credits)
Effective communication and writing in English, Language skills, writing of essay answers, Comprehension, sentence construction, Outlines and paragraphs, collection and organization of materials and logical presentation, punctuation.
GST 112: Logic Philosophy and Human Existence (2 Credits)
A brief survey of the main branches of Philosophy. Symbolic logic, special symbols in symbolic logic-conjunction, negation, affirmation, disjunction.

GST 113: Nigerian Peoples and Culture (2 Credits)
Study of Nigerian history, culture and arts in pre-colonial times, Nigerian’s perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, Indigene/settler phenomenon, Concepts of trade, economic self-reliance, social justice, Individual and national development, Norms and values, Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

SECOND SEMESTER

CHM121: General Chemistry II 2 Credits

CHM122 Practical Chemistry 2 Credits
Theory and Practice of quantitative thermal analysis, acid-base oxidation-reduction precipitation and complexometric titrations. Gravimetric analysis. Calculations data analysis and organic analysis for elements in groups IA, IIIA,111B,IV. Thermal analysis of carboxylic etc.

CHM123: Organic Chemistry II 2 Credits
(a) Polar Functional Group Chemistry:
   (ii) Carbonyl group – Aldehydes and ketones structure: Physical properties. Important methods of preparation. Reactions: Tollens reagent, Fehling’s solution, Benedict’s solution, Lodoform reaction ; with HCN, HaHSO3; alcohols, including mechanisms, with ammonia, hydrazines and their derivatives, including mechanisms; aldol condensation. Tests for aldehydes and ketones. Importance.
   (viii) Carboxylic acid derivatives: Anhydrides acid halides esters and amides. Change of reactivity when OH of acid is replaced by – OOCOR-X –OR, -NR. Reaction with water, alcohols, ammonia and amines. LIACH4, Test for esters.
   (vi) Amino group – Amines. Structure, Physical properties. Important methods of preparation. Reaction with acids, basicity and salt formation; Alkylation,

(b) **Miscellaneous Topics:**


ii. Amino acids, Proteins: Definition, classification, essential amino acids, special properties and reactions, iso-electric point, tests, importance.

iii. Carbohydrates: Definition, classification, importance, nomenclature, structure and reactions of glucose.

iv. Natural Products: Main classes (other than lipids carbohydrates and proteins); Steroids, terpenoids, alkaloids, prostaglandens definition, importance, examples.

**MTH121: Vectors, Geometry And Statistics:** 3 Credits

(a) Vector and Coordinate: Types of vectors; points, line and relative vectors. Geometrical representation of vectors in 1 – 3 dimensions. Addition and vectors and multiplication by scalar; Components of vectors in 1, 3 dimensions; direction cosines. Linear independence of vectors. Point of division of a line. Scalar and vector products of two vectors. Simple applications. Two-dimensional coordinates geometry; straight lines, angle between two lines, distance between points. Equation of circle, tangent and normal to a circle. Properties of parabola, ellipse, hyperbola. Straight lines and planes in space, direction cosines; angle between line and between lines and planes; distance of a point from a plane; distance between two skew lines.


**MTH122: Differential Equations And Dynamics** 3 Credits

(a) Differential Equations: Formation of differential equation of 1st degree and 1st order. Variables, separable, exact, homogenous and linear, differential equations of the 2nd order with constant coefficients.


(c) Rigid body motion: Moments of inertia, parallel and perpendicular axes theorems. Motion of a rigid body in plane with one point fixed, the compound pendulum. Reactions at the pivot. Pure rolling motion of a rigid body along a straight line.
PHY100: Practical Physics 1 Credits
Students are expected to carry out a minimum of 12 major experiments covering the main aspects of the courses taken in the year. pre-requisites: O-Level or WASC.

PHY121: Electromagnetism and Modern Physics 2 Credits
Electric field: Strength, flux and the inverse square law; electrostatic force between two charged particles; flux model for the electric field. Energy stored in an electric field, electrical potential due to dipole.
Steady direct currents: Simple circuits; potential difference resistance, power, electromotive force, Kirchhoff's laws; potential divider, slide-wire potentiometer, bridge circuits, combining resistances.
Capacitors: Capacitance, combination of dielectrics, energy stored, charging/discharging. Electromagnetic effects; electromagnetic forces, electric motors, moving coil galvanometer, ammeter, voltmeter, electromagnetic induction, dynamo.
Alternating currents: Simple A.C. circuits, transformers, motors and alternating currents.
Magnetic field: The field at the center of a current-carrying flat coil of a current carrying solenoid, outside a long solenoid, flux model and magnetic fields. Electromagnetic induction: Induction in a magnetic field; magnitude and direction of induced e.m.f; energy stored in a magnetic field; self-inductance. Electricity and matter: Current flow in an electrolyte, Millikan experiment; conduction of electricity through passes at low pressure, cathode rays; photo-electricity.

PHY122: Modern Physics I 2 Credits
Structure of nucleus: Composition of nucleus, artificial transmutation of an element, natural transmutation of an element; discovery of neutron, particle, emission, isotopes, and gamma radiation.
Prerequisite: O-Level or WASC.

PHY123: Waves, Vibrations and Optics: 2 Credits
Periodic motion of an oscillator: Velocity and acceleration of a sinusoidal oscillator, equation of motion of a simple harmonic oscillator: damped oscillations; forced oscillations; resonance; propagation of longitudinal and transverse vibrations.
Wave and light: Mirrors, formation of images, thin lenses in contact, microscope, telescope; chromatic and spherical aberrations and their reduction, Dispersion by prisms; relations between colour and wavelength; spectra.

GST 121: Use of Library, Study Skills and ICT (2 Credits)
Brief history of libraries, library and education, Universities libraries and other types of libraries, study skills (reference services). Types of library materials, using library resources including e-learning, e-materials; etc. Understanding library catalogues (card, OPAC etc) and classification, Copy and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, Hardware technology, Software technology, Input
devices, storage devices, Output devices, communication and internet services, word processing skills (typing, etc).

**GST 122 Communication in English II**  
(2 Credits)  
Logical presentation of papers, Phonetics, Instruction on lexis, art of public speaking and oral communication. Figures of speech, Précis, Report writing.

**GST 123 Communication in French**  
(2 Credits)  
Introduction to French, Alphabets and numeric for effective communication (written and oral), Conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

### 200 Levels

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200 LEVEL: FIRST SEMESTER

MEE221: Engineering Drawing I (2 Credits)

i. Use of draughting instruments, lettering, dimensioning, layout.


iv. Pictorial/Freehand sketching.

v. Conventional practices.


MEE231: Strength of Materials (2 Credits)

i. Force equilibrium – free body diagrams.

ii. Concept of stress, strain, tensile test. Young’s modulus and other strength factors.

iii. Axially loaded bars, composite bars, temperature stresses and simple indeterminate problems. Hoop stresses in cylinders and rings.

iv. Bending moment, shear force and axial force diagrams for simple cases, simple torsion and applications.

MEE 251: THERMODYNAMICS I (2 credits)

i. Basic concepts, definitions and laws.

ii. The ideal gas, Heat and Work.

iii. The first law of thermodynamics, applications to open and closed systems.

iv. The steady state flow equation (Bernoulli’s Equation) and applications.


MEE271 Manufacturing Technology/ Workshop practice I (2 Credits)

Elementary introduction to types and organization of engineering workshops, covering jobbing, batch, mass production.

i. Engineering materials: their uses and properties.

ii. Safety in Workshops and general principles of working. Bench work and fittings: hand tools, instruments.


vi. General principles of working of standard metal cutting machine tools.
vii. Invited lectures from professionals.

ELA 201: Laboratory (3 Credits)

EMA 201: Engineering Mathematics I (3 Credits)
c) Linear Algebra: Linear spaces, algebra of determinants and matrices.

ECP 201: Computer and Computing (2 Credits)
Program design using pseudo-code/ Flowchart extensive examples and exercises in solving engineering problems. Computer programming using structure basic such as QBASIC symbols, keywords, identifiers, data types, operators, statements, flow of control, arrays, functions and procedures. Extensive examples in solving engineering problems using QBASIC. Use of Visual Programming such as visual Basic in solving Engineering problems.

EEE 211: Electrical Engineering I (2 Credits)

ENS 211: Engineer in Society (1 Credits)
i. Philosophy of Science
ii. History of Engineering and Technology
iii. Safety in Engineering and Introduction to risk analysis
iv. The role of Engineers in nation building
v. Invited lectures from professionals.

EPS 223: Introduction to Entrepreneurial Skills (2 Credits)
Introduction to entrepreneurship and new venture creation; Entrepreneurship in theory and practice; The opportunity, forms of business, staffing, marketing and the new venture; Determining capital requirements, raising capital; Financial planning and management; Starting a new business, Feasibility studies; innovation; Legal issues; insurance and environmental considerations. Possible business opportunities in Nigeria.
GST 211: **History and Philosophy of Science** (2 Credits)
Man- his origin and nature, Man and his cosmic environment, scientific methodology, science and technology in the society and service of man. Renewable and non-renewable resources-man and his energy resources. Environmental effects of chemicals, plastics, textiles wastes and other materials, Chemical and radiochemical harzards. Introduction to the various areas of science and technology. Elements of environmental studies.

SECOND SEMESTER

MEE212: **Applied Mechanics** (3 Credits)
Statics: Laws of statics, system of forces and their properties. Simple problems, friction.
   ii. Kinematics of rigid bodies – velocity and acceleration diagrams for simple problems.
   iii. Kinetics of rigid bodies – Two dimensional motion of rigid bodies, energy and momentum, Mass moment of inertia. Simple problems.
   iv. Simple harmonic motions.

MEE242: **Materials Science** (2 Credits)
   i. Alloy Theory – Application to industrial alloys. Steel in particular.
   ii. Engineering properties – Their control, hot and cold working, heat treatment, etc. Creep, fatigue and fracture. Corrosion and corrosion control.

MEE 262: **FLUID MECHANICS I** (2 credits)
   i. Elements of fluid statics; density, pressure, surface tension, viscosity, compressibility etc.
   ii. Hydrostatic forces on submerged surfaces due to incompressible fluid.
   iii. Introduction to fluid dynamics – conservation laws.
   iv. Introduction to viscous flow.

ELA 202 **Laboratory** (3 Credits)

EMA202: **Engineering Mathematics II** (3 Credits)
   a. Further Integrations: Reduction formulae
   b. Differential Equations –

ECP202: IT in Engineering (2 Credits)
Historical developments of Computers, External Components of computers, Characteristics of a computer, types and classification of hardware and software. Word processing: principle of operation, application, demonstration and practical hand-on exercises in word processing using a popular word processing package. Spread sheet: principle of operation, application, demonstration and practical hand-on exercises in the use of spread sheet to solve problems. Presentation software packages: principle of operation, application, demonstration and practical hand-on exercises in the use of popular report presentation package (such as power point). Mini project to test proficiency in the use of software packages. Database management Package: principle of operation, application, demonstration and practical hand-on exercises in the use of DBMS package in solving problems. Matlab: principle of operation, application, demonstration and specific functions/toolboxes to solve specific engineering problems.

EEE212: Electrical Engineering II (2 Credits)

CHE 212 Physical Chemistry (2 Credits)
Thermo-chemistry, electro-chemistry, kinetic theory, gas laws, transition metals, introductory organic and inorganic chemistry.

GST 222: Peace Studies and Conflict Resolution (2 Credits)

IUIITS 202 Igbinedion University Industrial Training Scheme (1 Credit)

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**Total Credits** 21

Second

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**Total Credits** 22

**300 LEVEL:**

**FIRST SEMESTER**

**MEE 311: MECHANICS OF MACHINES I (2 credits)**
Basic principles of kinematics and motion. Vectoral Kinematics with emphasis on moving co-ordinate systems. Mechanisms of linkages, displacement, motion and instantaneous centres. Link mechanisms; Grashof’s law. Grubler’s criterion. Relative velocities and accelerations in mechanisms.

**MEE 321: MACHINE DRAWING (2 credits)**

**MEE 341: ENGINEERING METALLURGISTRY (2 credits)**
Metallurgy of Iron and Steel: Production techniques and common types. Plain carbon and Alloy steels. The iron-carbon phase diagram.

**MEE 351: THERMODYNAMICS II (2 credits)**

**ELA 301: LABORATORY PRACTICALS (3 credits)**
Familiarization with engineering hardware. Lectures on experimental reporting techniques. Basic techniques and instruments for engineering measurements; Experiments are conducted in Electrical, Civil, Mechanical and Manufacturing technology. The experiments are designed to supplement and support the lecture courses.

**CVE 311: STRENGTH OF MATERIALS II (2 credits)**
Columns: Short columns (struts); Intermediate columns and slender columns. Fully restrained, partially restrained and unrestrained columns.
1.1. Analysis of Columns: By Euler’s Theoretical Formulae and Empirical Methods such as: Gordon Rankine’s formula; Johnson’s Parabolic and Straight line formula.
1.2. Loading And Bending of Columns:
Symmetrical and eccentric loading of columns and bending about one axis (uni-axial bending) and bending about two axes (tri-axial bending).
2. Analysis of Perfect Frames or Statically Determinate Frames:
Calculation of external support reactions, internal forces (tension and compression) and deformation in bar members, using both analytical methods of joints ( \( \sum F_V = 0; F_h = 0 \)) and method of sections ( \( \sum M = 0 \)) as well as graphical methods.
3. Analysis of Statically Indeterminate Structures using Moment Area Methods, Claypeyron’s theorem of three moments, slope deflection equations, etc. consideration of boundary conditions, determination of external support reactions, shear, moments and drawing S.F.D. and B.M.D.
4. Advanced Treatment of Elastic Bending Theory of Beams:
Shear center; unsymmetrical bending; curved beams.
5. Biaxial and Tri-axial state of stress: transformation of stresses; Mohr’s circle; failure theories.

**EMA 301: ENGINEERING MATHEMATICS III (3 credits)**
i. Linear Algebra: n-dimensional vectors, addition and scalar multiplication. Linear
dependence and independence of set vectors. Matrices, operations of addition,
scalar multiplication and product; determinants and their properties; sub-matrices
and rank; inverse of a matrix. Theory of a system of linear equations, linear
transformation and matrices, Eigen values and Eigen vectors of a matrix; eigen
values of Hermitian, skew Hermitian and unitary matrices; bilinear quadratic
forms.

ii. Analytical geometry: Plane polar coordinates, coordinate transformation. Solid
gometry and spheres and quadric surface. Spherical polar and cylindrical polar
coordinates.

iii. Functions of several variables: Mean value theorem for function of several
variables, maxima and minima, differentiation under the sign of integration.
Jacobians.

and numerical solution of ordinary differential equations. Curve fitting and least
squares. Further on linear programming (simplex method).

EEE321: ELECTROMECHANICAL DEVICES AND MACHINES I
(2 credits)
Review of electromechanical energy conversion, rotating magnetic field; performance and
methods of speed control of D.C. Machines.
Transformers: construction, operational phasor diagrams and equivalent circuits,
determination of parameters from tests, Auto transformers, three-phase transformer
connections, groupings, tertiary windings. Instrument transformers: Current transformers and
potential transformers. Power transformers: Parallel operation, switching, grouping, cooling,
protection.

ENS 311: ENGINEER IN SOCIETY (1 CREDIT)

EPS 311: Introduction to Entrepreneurship Studies (2 Credits)
Some of the ventures to be focused upon include the following:
1. Soap/ Detergent, Tooth rushing and tooth paste making
2. Photography
3. Brick, nails, screws making
4. Dyeing/ Textile blocks, paste making
5. Rope making
6. Plumbing
7. Vulcanizing
8. Brewing
9. Glassware production/ Ceramic, production
10. paper production
11. Water treatment/ Conditioning/ Packaging
12. Food processing/ Packaging/ Preservation
13. Metal working/ Fabrication- Steel aluminum door and windows
14. Training Industry
15. Vegetable oil/ Salt extractions
16. Fisheries/ Aquaculture
17. Refrigeration/ Air conditioning
18. Plastic making
19. Crop farming
20. Domestic Electrical wiring
21. Radio/ TV repairs
22. Carving
23. Weaving
24. Brick laying / making
25. Bakery
26. Tailoring
27. Iron Welding
28. Building drawing
29. Carpentry.
30. Leather tanning
31. Interior decoration
32. Printing
33. Animal husbandry ( Poultry, pigry, goat, etc)
34. Metal craft: Blacksmith, Tinsmith, etc.
35. Sanitary wares
36. Vehicle maintenance
37. Book keeping.
38. Computer installation and repairs

SECOND SEMESTER

MEE 312: MECHANICS OF MACHINES II (2 credits)

MEE 332: WORKSHOP PRACTICE (2 Credits)
Workshop setting: Types of workshop equipment, machines and materials: Use of instruments and tools. Machine operation practice; safety procedures in workshops.

MEE 342: MANUFACTURING TECHNOLOGY II (2 credits)

MEE 362: FLUID MECHANICS II (2 credits)

Ideal flow theory: Introduction to the concepts of circulation, irrotationality, velocity potential and stream functions. Inviscid equations in general forms; Boundary conditions for inviscid flows. Poisson and Laplace equations and their elementary solutions; Elementary flows and principle of superposition. Lift and draft on cylinders; D’Alenbert’s paradox. Kutta-Jukoweski condition. Introduction to Aerofoil theory.

Power systems: Mechanical power systems; their applications and perations. Drive requirements for mechanical equipments: pumps, fans, machine tool cranes. Thermodynamics. Thermal and hydraulic power system. Operation principles of Air-conditioning and Refrigeration.

**MEE 382: COMPUTER APPLICATIONS IN ENGINEERING (2 credits)**
A computer-driven course to illustrate computer applications in mechanical engineering and mathematics. Computer Aided Design (CAD) and Computer Aided Manufacture (CAM) basics.

**MEE 302: CONTROL ENGINEERING (3 Credits)**
Control Engineering concepts; Transfer functions; Differential equations of control systems; Tmasducers; Automatic control methods.


**ELA 302: MECHANICAL ENGINEERING LABORATORY (3 credits)**
Measurement techniques relevant to Mechanical engineering. Experiments in Mechanics, Vibration, Strength of materials, Metallography and Materials properties. Written engineering reports covering analysis, results and conclusions of experimental investigations. The experiments are designed both to show the behaviour of some engineering material and equipment, and also to encourage critical appreciation of the techniques of measurement which are available.

**EEE 322: ELECTROMECHANICAL DEVICES AND MACHINES II (2 credits)**
Induction motors, universal motors, reluctance motors, hyteresis motors. Magnetically coupled circuits, reluctance torque in rotating machines. Armature windings of electrical machines: Conductors, terms coils, coil-span, single and double layer windings. D.C. armature winding (lap and wave) connections. Principles of action of commutator and brush location, types of A.C. windings, e.m.f. of windings, distribution factor and coil-span factor, different harmonics. Basic rotating machines principles: elementary concepts, e.m.f. of distributed windings, rotating magnetic fields torque and voltage for different types of flux density and fluxes.

**EMA 302: ENGINEERING MATHEMATICS IV (3 credits)**
Half range expansion. Theoretical basic of Fourier series. Application to the solution of partial differential equations.

ii. Gamma, Beta and probability function (emphasis rather on the applications).

iii. Differential Equation: Equations of the form $y'' = f(x,y')$. Linear second order equations reducible to linear equation with constant coefficients. Series solution of differential equation. Legendre’s differential equation and Legendre polynomials. Bessel’s differential equation and Bessel functions of first kind; their properties and introduction to applications.


IUITS 302: Igbinedion University Industrial Training Scheme (1 Credit)

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<td>Igbinedion University Industrial Training Scheme</td>
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Total Credits: 24
400 LEVEL

MEE 411: MECHANICS OF MACHINES III (2 credits)

MEE 421: ENGINEERING DESIGN I (3 credits)

MEE 431: STRENGTH OF MATERIALS III (2 credits)

MEE 441: ENGINEERING STATISTICS (2 Credits)
Probability- Elements of probability, density and distribution functions, moments, standard distributions, e.t.c.
Statistics- Regression and correlation, large sampling theory. Test hypothesis and quality control. Introduction to statistical analysis software packages (MS Excel, Statistica, SPSS)
Design of Experiments- Statistical methods: measures of central tendency, measures of dispersion. Experimental Design: Significance (levels of significance, tests of significance) Factorial Concept, Analysis of variance (one way designs, two way designs, e.t.c), Means Comparison (Non-parametric, pairwise (LSD, MRT’s)).
Applications in Modeling- Modeling Techniques, modeling procedure, Applied linear regression basics.

MEE 451: THERMODYNAMICS III (2 credits)
MEE 461: FLUID MECHANICS III (2 credits)

MEE 471: COMBUSTION AND HEAT TRANSFER (3 credits)

MEE 481: AUTOMOBILE WORKSHOP PRACTICE (2 Credits)

GRE 441: RESEARCH METHODS AND TECHNICAL REPORT WRITING (2 credits)

ENS411: TECHNOLOGY, POLICY AND DEVELOPMENT (2 CREDITS)
Definition and usage of technology; Basic methods of policy analysis and planning; Practical principles for beginning policy analysts; Definition of sustainable development; Distinction between science, engineering and technology; Definition of invention and innovation; Models of technology innovations; Types of technology innovations; Methods for measuring
innovation performance; Examination of national technology policy and development strategy.

**ELA 401:**  **MECHANICAL ENGINEERING LABORATORY** (2 credits)

**EPS 411:**  **Introduction to Entrepreneurship studies**  (2 Credits)

---

**SECOND SEMESTER**

**IUIUTS 402:**  Igbinedion University Industrial Training Scheme  (6 Credit)

---

**500 Levels**

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500 LEVEL:
FIRST SEMESTER
MEE 500: PROJECT (3 credits)
Projects are drawn from a wide variety of different fields to give experience in many aspects of design, manufacture and execution of experiments. They give the students experience in methods of solving problems. Students work in closely-supervised groups or singly on problems which require solutions.

GRE 501: LAW and MANAGEMENT (3 credits)

MEE 511: ENGINEERING SYSTEMS DYNAMICS (3 credits)
Physical engineering systems, models, modeling distributed and lumped parameter systems. Assumptions in modeling. Governing equations for mechanical, electrical, electro-mechanical and thermal, systems. Fluid transducer components and systems.

MEE 521: MECHANICAL ENGINEERING DESIGN II (3 credits)

MEE 551: THERMAL POWER ENGINEERING I (2 credits)
Thermodynamics, Carrot cycle, Rankine cycle, Regenerative cycle, Binary vapour cycles, Special turbines, the working fluid.

MEE 571: HEAT TRANSFER (2 credits)
Extended sources. Heat exchangers; Effectiveness, Analytical relation to capacity-rate ratio and ... number of transfer units in parallel and counter-flow. Selection criteria. Converter applications.

MEE 541: ENGINEERING METALLURGY II (3 Credits)
Nuclear materials.

ELA 501: LABORATORY PRACTICALS (3 Credits)

SECOND SEMESTER
MEE 500: PROJECT (3 credits)
Projects are drawn from a wide variety of different fields to give experience in many aspects of design, manufacture and execution of experiments. They give the students experience in methods of solving problems. Students work in closely-supervised groups or singly on problems which require solutions.

GRE 502: ENGINEERING MANAGEMENT II (3 credits)
Resource Management:
Planning Decision Making, Forecasting, planning, scheduling. Production control. Gantt Chart and PERT.

Optimization: Linear programming as an aid to decision-making. Elementary treatment of decision-making policies under risks and uncertainties.

Transport materials Handling Selection of transport media for finished goods, raw materials and equipment. Facility layout and location. Work study and production policies.


MEE 512: MATERIALS SELECTION & FAILURE ANALYSIS (2 credits)

MEE 552: THERMAL POWER ENGINEERING II (2 credits)

MEE 562: FLUID POWER SYSTEMS & CONTROL (Optional course) (3 credits)

MEE 572: REFRIGERATION & AIR-CONDITIONING (2 credits)

MEE 582: ADVANCED CAD/CAM (3 Credits)

MEE 592: CASES STUDIES IN MECHANICAL ENGINEERING (2 credits)
The course aims to show the basis for decision making in engineering on the grounds of technical merit, manufacturing aspects and economics. Case studies of successful designs will be analyzed. The course will show some of the interactions between the various courses in mechanical engineering and enables the students to partake in seminars. Topics to be discussed include: Computer applications in mechanical engineering; Value engineering and
selection of manufacturing processes for different classes of components; batches; application of basic principles to varying situations, etc.

**MEE 531:  ELASTICITY AND PLASTICITY (3 credits) (Optional course)**

**MEE 561:  BUILDING SERVICES ENGINEERING (Optional course)  
(3 credits)**

**MEE 542:  MATERIALS TECHNOLOGY (Optional course)  
(3 credits)**
Polymer engineering: Molecular structure and basic types of polymers. Main classes of plastics and their uses. Polymer processing; extrusion, transfer, blow, injection and rotational moulding techniques. Mechanical properties creep and impact. Visco-elasticity; spring-dashpot models. Electrical and Optical properties. Thermal properties. Polymer degradation.

**Rubbers and Adhesives:**
Ceramic technology; Structure and properties of ceramic materials, fabrication and shaping of ceramics, Mechanical properties, Electrical properties.

**Composite Materials:**
Assessment of toughness in different types of materials. Effect of composition and processing variables. Control of yield stress and toughness in steels. Design of alloy steels, pressure vessel steels, pipeline steels.

**Failure mechanisms:**
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<tr>
<td>1</td>
<td>MR. ERAMEH, A.A.</td>
<td>M.Eng. M.Sc, B.Eng. (Mech)</td>
<td>L I/ Ag. Head</td>
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<tr>
<td>2</td>
<td>Mr. EDORE, F. O.</td>
<td>M.Sc, B.Eng (Mech)</td>
<td>L I</td>
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<tr>
<td>3</td>
<td>MR. ISERU, E.</td>
<td>M.Sc, B.Sc (Mech)</td>
<td>L II</td>
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<tr>
<td>4</td>
<td>MR. AREGBE, O.</td>
<td>M.Eng, B.Eng. (Mech)</td>
<td>L II</td>
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<tr>
<td>5</td>
<td>MR. EMIFONIYE, E. U.</td>
<td>M.Eng</td>
<td>L II</td>
<td>F/T</td>
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**TECHNICAL STAFF**

<table>
<thead>
<tr>
<th>NAME</th>
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<tbody>
<tr>
<td>1. Mr. L. Odejimi</td>
<td>Chief Tech</td>
</tr>
<tr>
<td>2. Mr. Onwuzor IN</td>
<td>Chief Tech</td>
</tr>
<tr>
<td>3. Mr. Imafidon P.G.A</td>
<td>Technologist</td>
</tr>
<tr>
<td>4. Mr. Okotie Emeku A</td>
<td>Technologist II</td>
</tr>
<tr>
<td>5. Mr Nekwu Jonathan</td>
<td>HND (MECH) 2011</td>
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<tr>
<td></td>
<td>Machinist</td>
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</table>
PRINCIPAL OFFICERS OF THE COLLEGE OF HEALTH SCIENCES

Provost
Prof. J. A. Unuigbe MBBS, FRCOG, FWACS

Ag. Dean, School of Basic Medical Sciences
Dr. S.J. Josiah B.Sc., M.Sc., Ph.D

Dean, School of Clinical Medicine
Prof L.C. Chiedozi B.A. (Hons.), MD, FACS, FWACS

College Secretary
Mr O. O. Olaoke B.Sc. Ed. (Hons); MBA

THE LAW ESTABLISHING THE COLLEGE OF HEALTH SCIENCES

The Education (National Minimum Standards and Establishment of Institutions) (amendment) Decree 1993, otherwise known as Decree No 9 of 1st January 1993 is the law under which Certificate No. 0001 of 24th April 1999 was issued by the Honourable Minister of Education on behalf of the Federal Military Government.

Objectives of the College
a. To organize and offer courses of instructions leading to degree, diplomas, certificates and other university qualifications and distinctions in medical studies and such related studies as may be prescribed by the Senate.
b. To organize and provide training and courses whether leading to university qualifications or not for such persons as may be prescribed by Senate
c. To arrange and organize conferences, seminars, studies in the interest of public erudition.
d. To tackle the problem of acute shortage of medical personnel in Nigeria, Africa and the world at large.
e. To fill the gap created by brain drain of medical personnel in Nigeria.
f. To encourage medical research in all fields of medical endeavor.
g. To ensure maintenance of quality and standards in Medical Education both at graduate and postgraduate levels.
h. To give qualitative medical education both at graduate and postgraduate levels in order to produce efficient and highly skilful doctors dedicated to the Primary Health Care delivery; and to the teaching of Medical Sciences.
i. To produce doctors who will uphold the highest ethical standard of the profession.
j. To perform any other function as shall be prescribed by the senate of the University.

THE ADMINISTRATIVE STRUCTURE OF THE COLLEGE

The College administrative structure consists of:

1. The office of the Provost
2. Offices of Deans of Schools
3. Academic Departments and
4. Administrative / service departments

THE COLLEGE CONSIST OF
a. The School of Basic Medical Sciences
b. The School of Clinical Medicine
c. Such other Schools, institutes, research and teaching units as may from time to time be prescribed or established as part thereof.

POWERS AND DUTIES OF THE COLLEGE.
a. The College shall be responsible to the Senate in respect of academic and other matters and to the Council for financial and other staff welfare matters.
b. The College shall have right to discuss any matter relating to its stated functions as well as any other matter referred to it by appropriate organs of the University.
   i) Co-ordinate the academic and administration of the constituent departments
   ii) Approve staff for appointments and promotion within the College
   iii) Make recommendations on staff and student discipline.
   iv) Collate and shortlist students for admission purposes

Principal Officers of the College
1. The Provost
2. The Dean, School of Basic Medical Sciences
3. The Dean, School of Clinical Medicine
4. The College Secretary
5. The College Accountant

TENURE AND POWERS OF THE PROVOST AND OTHER PRINCIPAL OFFICERS OF THE COLLEGE.
1. (a) The Provost shall be the academic Head of the College. He / she shall be responsible to the Vice Chancellor for the effective coordination and performance of the work and administration of the various schools, institutes, and other units of the College.
(b) The Provost shall be appointed from among Professors of the College by the Vice Chancellor.
(c) The Provost shall preside at all meetings of the academic Board at which he is present and by his representative if he is absent.
(d) The Provost shall hold office for a period to be fixed by the Vice Chancellor on recommendation of the Senate.
2. (a) The academic head of a School within the College shall be the Dean who shall be appointed by the Vice Chancellor.
(b) The Dean shall be responsible to the Provost for the effective administration of the School including the coordination of the work
of the various departments and other units of the School.

3. There shall be a College Secretary, of the rank of a Deputy Registrar who shall be Chief administrative and financial Officer of College. He / she shall be responsible to the Provost for the day-to-day administrative work of the College.

Organizational and Administrative Bodies in the College
To facilitate the smooth organization, development, and coordination of academic, research, administrative activities in the College, the following Committees and Boards shall be set up.

PRINCIPAL COMMITTEES AND BOARDS OF THE COLLEGE
1. College Board
2. Board of studies of each School
3. Admissions and transfer Committee
4. Examination Committee
5. Students welfare Committee
6. Appraisal Committee
7. Time table Committee
8. Scholarship, research grants, prizes, experimentation ethics committee

1. COLLEGE BOARD

a. Provost who shall be Chairman
b. Deans of the Schools within the College
c. All Professors of the College
d. All HODS within the College
e. Representative of the Vice Chancellor
f. One representative each from other Colleges / Faculties and Units
g. One representative from the Library
h. One representative from the Registry
i. All full time academic staff of the College
j. The college Secretary as Secretary

Quorum: One quarter of members (1/4)

Duties of the College Board
a) To advertise, receive, and process applications for appointments within the College, and subject to the authorities of the Senate in respect of academic posts, and of council in respect of administrative posts, professional and technical and such related posts respectively.

b) To equip and maintain medical Libraries and Laboratories as may be necessary for training, research and other activities of the College.

c) With approval of the Senate and Council to receive gifts etc but without obligation to accept the same for a particular purpose provided that the terms attaching thereto are consistent with goals of the College.
NOTE: Meeting should be held one week before the Senate meets.

2. **BOARD OF STUDIES OF THE SCHOOLS OF THE COLLEGE**
   There shall be established for each School within the College a Board to be called the Board of studies of the School.

**Membership are:-**

a. The Dean of the School (Chairman)
b. Deans of other Schools within the College
c. All Academic staff of the School
d. 1 appointee of the Vice Chancellor on recommendation of the Senate
e. One representative of the University Teaching Hospital.

**Terms of reference**

a. To advice and report to the Senate through the Academic Board all matters relating to the organization of education, teaching, research, and associated matters of the school.
b. To consider the progress and conduct of students within the School
c. To recommend to the Senate through the Academic Board persons for appointment as examiners.
d. To deal with all academic matters referred to it by the Senate or the Academic Board.

3. **ADMISSION AND TRANSFER COMMITTEE MEMBERSHIP**

   i) Provost or his nominees as Chairman
   ii) Committee of Deans in the College as members

**Duties**

a) To consider all aspects of Admissions / Transfers for Admission / Transfer of students in the College of Health Sciences

b) To advice the Academic Board on matters relating to the Admission / Transfer of the students to the College of Medical Sciences.

4. **EXAMINATION / TIME TABLE COMMITTEE MEMBERSHIP**

   a. Provost or his nominee as Chairman
   b. Dean / representative of the School of Clinical Medicine
   c. Dean / representative of the School of Basic Medical Sciences
   d. Dean / representative of the School of Pharmacy

**Duties**

i) To draw up examination Timetable for all programmes run by the College.

ii) Provide and circulate examination regulations

iii) To liaise with examination Officers of the University to see that examinations are handled properly.

iv) To see to the provision / allocation of venues for examinations.

v) To draw up lecture time table for the various Schools of the College

vi) To allocate space for students lecture
5. **STUDENTS WELFARE COMMITTEE MEMBERSHIP.**
   a. Provost nominee ------ Chairman
   b. Two representatives of the College Board
   c. A student from each of the Schools of the College
   d. Secretary—College Secretary

**Duties**
1. To advise the Provost on all matter relating to the College’s Students affair
2. To make recommendation about the general well being of students in the College.

6. **APPOINTMENTS AND PROMOTIONS COMMITTEE.**
   a. The Provost -------- Chairman
   b. All Deans in the College
   c. One Professor to be elected by each Dean in the School
   d. Two senior staff( not below senior lecturer and not above associate professor) to be elected by the College Board
   e. Two nominees of the Vice Chancellor
   f. HODS (to be in attendance only when issues affecting their Departments are being considered- no voting right)
   g. College secretary – as secretary

**Duties**
1. To consider confirmation, appointments and promotions of all academic and non academic staff and report to A&PC.
2. To receive and determine applications for Study leave, Leave of absence, Sabbatical leave and make recommendations to the appropriate University Committee.

7. **SCHOLARSHIP, PRIZES, ETHICAL RESEARCH GRANTS, EXPERIMENTATION, ETHICS COMMITTEE.**
   a. Provost -------- Chairman
   b. Deans of all schools in the College
   c. 3 other professors elected by the Academic Board
   d. Dean School of Postgraduate studies.
   e. Secretary: College Secretary or his/ her representative.

8. **JOINT PLANNING COMMITTEE COLLEGE OF HEALTH SCIENCES AND IUTH MEMBERSHIP**
   a. Provost -------- Chairman
   b. CMD, IUTH
   c. Chairman, Medical Advisory Committee, IUTH
   d. College Secretary, CHS
   e. Bursar Igbinedion University
   f. Director of administration, IUTH
   g. Chief Engineer, IUTH
   h. Chief Engineer, Igbinedion University
   i. Secretary: provided by IUTH
**Duties**

1. To meet periodically to discuss matters of common interest with particular reference to staff projection and physical planning.

2. To integrate the planning efforts of both Hospital and the College and make suggestions regarding priorities.

3. To discuss and lay down procedures for operating all joint services in the College and IUTH.

**NOTE:** This Committee should serve only in advisory capacity

**OTHER COMMITTEES THAT MAY BE CONSTITUTED**

1. Curriculum Committee
2. Development Committee
3. Finance Committee
4. Library Committee
5. Community Health Programme Management Committee

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**Staff List of The College of Health Sciences – October 2012**

### Office of the Provost

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<tr>
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<tr>
<td>1</td>
<td>Prof. Jacob Aghomon Unuigbe</td>
<td>MBBS (Ibadan) 1972; MRCOG (UK0 1980; FWACS 1984; FICS 1986; FRCOG 1994</td>
<td>Professor (Provost)</td>
<td>FT</td>
</tr>
<tr>
<td>2</td>
<td>Mr. Olaoke Olasoji Oluwole</td>
<td>BSc Ed, P.E (Uniben) 1996; MBA Business Mgt. (USA)</td>
<td>Assistant Registrar/College Secretary</td>
<td>FT</td>
</tr>
<tr>
<td>4</td>
<td>Okena Joy</td>
<td>First School Leaving Certificate</td>
<td>Cleaner</td>
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### School of Basic Medical Sciences

**Office of Dean, Basic Medical Sciences**

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<tr>
<td>1</td>
<td>Mr. S. J. Josiah</td>
<td>B.Sc., (ABU) 1986; M.Sc. (Ibadan) (1995)</td>
<td>Associate Professor Ag. Dean</td>
<td>FT</td>
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<tr>
<td>3</td>
<td>Sarah Alohan E.</td>
<td>OND &amp; HND (Sec. Studies)</td>
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DEPARTMENT OF ANATOMY

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<tr>
<td>1.</td>
<td>Dr. O. Adagbonyin</td>
<td>MBBS (Benin), 2003.</td>
<td>Ag. HOD/Lect. II</td>
<td>FT</td>
</tr>
<tr>
<td>4.</td>
<td>Prof. Uche Nwachi</td>
<td>L.R.C.P.; L.R.C.S.; LMDCH, Ph.D.</td>
<td>Professor</td>
<td>FT</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. G.I Eze</td>
<td>MBBS, M.Sc (Anatomy); FWACP</td>
<td>Snr. Lecturer</td>
<td>PT</td>
</tr>
<tr>
<td>7.</td>
<td>Miss Uche Okwuonu</td>
<td>B.Sc. Anatomy (Calabar) 1997; M.Sc. 2006</td>
<td>Lecturer I</td>
<td>FT</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. I. Imosemi</td>
<td>B.Sc., (Hons) Human Anatomy 1995 M.Sc. Human Anatomy 2006; Ph.D 2011</td>
<td>Associate Lecturer</td>
<td>PT</td>
</tr>
<tr>
<td>11.</td>
<td>Miss M. Igemokhai</td>
<td>OND Secretarial Studies</td>
<td>Departmental Secretary</td>
<td>FT</td>
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</table>

TECHNICAL STAFF – ANATOMY

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<tr>
<td>1.</td>
<td>Mr. E. O. Woghiren</td>
<td>FIMLS (1972); (London), ANIM (1986); (Nig).</td>
<td>Chief Med. Lab. Scientist</td>
<td>FT</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Samuel Airhumwunde. Izekor</td>
<td>First School Leaving Certificate Proficiency.</td>
<td>Laboratory Supervisor</td>
<td>FT</td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Emmanuel Salami Akpata</td>
<td>First School Leaving Certificate</td>
<td>Snr Mortuary Attdt</td>
<td>FT</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Eghosa. Omorogiwu</td>
<td>WASC</td>
<td>Snr. Lab Asst.</td>
<td>FT</td>
</tr>
<tr>
<td>5.</td>
<td>Miss Joan Odion Omorogiwa</td>
<td>SSCE</td>
<td>Snr. Lab. Asst.</td>
<td>FT</td>
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### DEPARTMENT OF BIOCHEMISTRY

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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. G. O. Emerole</td>
<td>B.Sc, Ph.D. (Ibadan)</td>
<td>Professor</td>
<td>FT</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Digban K.A.</td>
<td>AIMLS 1999;FMLSCN 2001; MSc 2003; PhD 2008</td>
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<td>Mr. S. E. Uhunmwangho</td>
<td>B.Sc. (Ibadan) 1998); M.Sc. 2000.</td>
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<td>6.</td>
<td>Dr. Asuk, Atamgba Agbor</td>
<td>M.Sc. Biochem. (Donetsk,Ukscine)1996, Ph.D. Nutrition &amp; Food Sciences (Unical Calabar)</td>
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<td>10.</td>
<td>Mr. Kingsley Omage</td>
<td>B.Sc. (Ekpoma)2003 M.Sc. (Benin) 2007</td>
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<td>11.</td>
<td>Ivie Omogiade</td>
<td>Computer/Economics Education (College of Education, Ekiadolor, B/City) 2008.</td>
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### TECHNICAL STAFF

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<td>Mr. Nelson Asogu</td>
<td>SSC</td>
<td>Snr. Lab. Asst.</td>
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<td>4.</td>
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# DEPARTMENT OF PHYSIOLOGY

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<td>Prof. V.I. Iyawe</td>
<td>MBBS 1978; Dip Sport Med (Edin) 1984; Ph.D Physiol (London) 1985</td>
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<td>2.</td>
<td>Dr. Ifedayo Ajayi</td>
<td>AIMLS 1991; FIMLS 1997; M.Sc (Benin) 2000; Ph.D Benin 2009.</td>
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<td>Adeniran Akinola</td>
<td>BSc Physiol (Ilorin) 2003; MSc Physiol (Ibadan) 2009</td>
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<td>Akpan Ogechi</td>
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# LIST OF TECHNICAL STAFF

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<td>Enitan Samsion</td>
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## School of Clinical Medicine

### OFFICE OF THE DEAN

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<td>Professor Bazuaye G.N.</td>
<td>MB.BS (1993); FMCPAPath (2002). Cert. Stem Cell Transplant (Basel Switzerland) 2010</td>
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<td>Dr. A.A. Uduoise</td>
<td>MB.BS; (1992) FWACS (2004)</td>
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<td>Ujeh Williams Dele</td>
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### HEADS OF DEPARTMENT

1. Anaesthesia                      Dr. G.O. Iyasere
2. Community Medicine               Dr. A Labiran
3. Medicine                          Prof. V.A Josephs
4. Obstetrics & Gynaecology          Prof. J.A. Unuigbe
5. Paediatrics                       Dr. D.O. Osaghae
6. Surgery                           Prof. L.C. Chiedozi
7. Pharmacology                      Dr. J.C. Nwanze
8. Morbid Anatomy                    Dr. F. Nwachokor
9. Chemical Pathology                
10. Haematology and Blood Transfusion Prof. Bazuaye G.N.
11. Radiology                        Prof. T.T. Marchie
12. Medical Microbiology             Prof. M.I. Agba
## DEPARTMENT OF ANAESTHESIOLOGY

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<td>Dr. S. Ukpomwan</td>
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<td>Dr. (Mrs.) B.A. Okonofua</td>
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## DEPARTMENT OF COMMUNITY HEALTH

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## DEPARTMENT OF MEDICINE

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## DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY
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<td>Dr. Erhatimwomon A.R.</td>
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**DEPARTMENT OF PAEDIATRICS**

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**DEPARTMENT OF SURGERY**
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<td>Prof. L.C. Chiedozi</td>
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<td>Dr. J. A.A. Awe</td>
<td>MBBS (Ibadan) 1974; FRCS (Ireland) 1981; Cert BLapSurg 1994; FWACS 1997; FICS 2000</td>
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<td>MBBS (Benin) 1990, FRCSI 1999; Dip, Ortho, Rehab (Dundee) 2004; Dip Sports Injury (Dublin) 2005</td>
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**DEPARTMENT OF PHARMACOLOGY**

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<td>Prof. N.G. Osifo.</td>
<td>BSc Hon. (Ibadan) 1973; MBBS (Ibadan) 1975;MD 1983; DABCP (USA) 1994.</td>
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<td>Dr. Asalu A. F</td>
<td>MB.BS (Ilorin) 1990; MS.C (Lagos Pharmacology 2000; MPH (Lagos)2002; FMCP 2006</td>
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<td>Dr. M. Ojezele</td>
<td>DVM (Ibadan) 1977; M.Sc Pharmacology 2004, PhD Pharm, (Ibadan) 2013</td>
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### DEPARTMENT OF MORBID ANATOMY

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### DEPARTMENT OF CHEMICAL PATHOLOGY

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### DEPARTMENT OF HEMATOLOGY

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**DEPARTMENT OF MEDICAL MICROBIOLOGY**

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<td>Dr. S.O. Samuel</td>
<td>MBBS (Ibadan) 1994; FMCPath 2004</td>
<td>Senior Lecturer</td>
<td>FT</td>
</tr>
<tr>
<td>4</td>
<td>Mrs. Rita Attamah</td>
<td>WASC; Dip. In Computer Word</td>
<td>Departmental Secretary</td>
<td>FT</td>
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**DEPARTMENT OF RADIOLOGY**

<table>
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<tr>
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<tr>
<td>1</td>
<td>Professor T.T. Marchie</td>
<td>MBBS 1986; FWACS 2008</td>
<td>Professor HOD</td>
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<td>2</td>
<td>Dr. Iginovia, O.J.</td>
<td>MBBS 2004; FMCR 2011</td>
<td>Lecturer I</td>
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<td>3</td>
<td>Dr. Omorogbe D.M.</td>
<td>MBBS (Uniben) 1988; FWACS 1997</td>
<td>Senior Lecturer</td>
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<td>4</td>
<td>Dr. Abubakar, M.M.</td>
<td>MBBS;FWACP 2014</td>
<td>Lecturer I</td>
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**LIST OF TECHNICAL STAFF**

<table>
<thead>
<tr>
<th>S/NO</th>
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<tr>
<td>1</td>
<td>Mr., B.H. Oladeinde</td>
<td>AIMLS (Microbiology) 1999</td>
<td>Lab Scientist I</td>
<td>Med. Micro</td>
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<tr>
<td>3</td>
<td>Mr. Christopher Aye Egbe</td>
<td>AIMLS (Med. Micro) 1998; MSc 2000</td>
<td>Lab Scientist I</td>
<td>Med Micro</td>
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<tr>
<td>4</td>
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<td>NABTEB</td>
<td>Lab Attendant</td>
<td>Med. Micro</td>
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<td></td>
<td>Name</td>
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<tr>
<td>5</td>
<td>Mr. S.M. Etikerentse</td>
<td>AIMLS (inter) 1962, AIMLS (histo) 1967 HNC (Haematology) 1970; FIMLS (Bacteriology) 1981, M.Sc Microbiology (1990)</td>
<td>Chief Lab Technologist</td>
<td>Haematology</td>
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<td>6</td>
<td>Ehiaghe Friday Alfred</td>
<td>BMLS; AMLS</td>
<td>Lab Scientist II</td>
<td>Haematology</td>
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<td>Ubong-Kingsley Sunday</td>
<td>SSCE</td>
<td>Lab Attendant</td>
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<td>8</td>
<td>Mr. Felix Osaiyuwu</td>
<td>AIMLS (NIG) 2001</td>
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<td>9</td>
<td>Nicholas Uwaifo</td>
<td>AIMLS 2001</td>
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<td>Chem Pathology</td>
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<td>13</td>
<td>Innocent Iyare</td>
<td>BMLS (Histopath)</td>
<td>Lab Scientist</td>
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**Curriculum of School of Basic Medical Sciences**

**Office of Dean, School of Basic Medical Sciences.**
<table>
<thead>
<tr>
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<tr>
<td>1.</td>
<td>Dr. S.J. Josiah</td>
<td>Ag. Dean</td>
<td>B.Sc.,(ABU) 1986; M.Sc. (Ibadan) (1995)</td>
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<td>Mrs. Attamah Rita</td>
<td>Typist II</td>
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<td>4.</td>
<td>Esquire Evelyn</td>
<td>Cleaner</td>
<td>FSLC</td>
<td>FT</td>
</tr>
<tr>
<td>5.</td>
<td>Hammed Yetunde</td>
<td>Cleaner</td>
<td>FSLC</td>
<td>FT</td>
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**Heads of Departments**

- Anatomy: Dr. U. C. Okwuonu
- Biochemistry: Dr. S. J. Josiah
- Physiology: Mr. K. O. Ajeigbe.

DEPARTMENT OF ANATOMY  
SCHOOL OF BASIC MEDICAL SCIENCES  
COLLEGE OF HEALTH SCIENCES
BRIEF HISTORY OF ANATOMY DEPARTMENT:
The Department of Anatomy was established as one of the major Departments of the School of Basic Medical sciences in October 2000 for the primary purpose of training students on the MBBS programme. Later in the year 2002, it was accredited by the Medical and Dental Council of Nigeria prior to the conduction of our maiden Part 1 MBBS examination. Furthermore, the Department was given approval to function as a Degree (BSc.) awarding Department in 2008 and eventually started off in 2010. So far the Department have had four sets of graduants and have awarded degrees to fifty three graduates.

PHILOSOPHY:
The philosophy of the department of Anatomy of the School of Basic Medical Sciences of Igbinedion University, Okada is in consonance with the philosophy of education in Nigeria and that of the Igbinedion University.

1. The School of Basic Medical Sciences believes that the Department should produce graduates who will be of high academic standing with adequate practical exposure who can function adequately in medical education processes, research, industrial and clinical relevancies.
2. The Department believes that the students should be trained in theoretical, practical and applied Anatomy and to make them suitable to utilize the knowledge to solve future problems and other applications like practice of medicine, nursing, pharmacy, physiotherapy etc.
3. The Department believes that our graduates should be able to do things as entrepreneurs whether in public service or self-employed.

OBJECTIVES:
The programme will be broad-based in order to produce graduates who will be able to:

1. Train students to acquire basic knowledge of Anatomical Principles.
2. Promote Anatomy as a subject through research that will lead to the acquisition of higher qualification e.g. M.Sc and Ph.D degrees.
3. Teach Anatomy to Medical, Dental, Nursing, Physiotherapy, Pharmacy, Medical Laboratory Science students and other allied disciplines.
4. Be capable of functioning in applied Anatomy.
5. Acquire scientific competence in the use of basic laboratory equipments and practical skill in experimental Anatomy.
6. To train students who can apply the knowledge of Anatomy to life situations.
7. To inculcate the knowledge of Anatomy sufficient for our Students to proceed for further studies in relevant fields of specialization.
8. To train students who can adapt themselves after schooling to various life situation including entrepreneurship.
9. To train students to have knowledge of applied Anatomy as used in Medicine, Pharmacy, Nursing, Veterinary Medicine, Medical and Science Laboratory programmes, Radiography, Physiotherapy, Human nutrition and other related health sciences.

ADMISSION REQUIREMENTS:
Candidates are admitted into the B.Sc degree programmes of the Department in any of the following three ways – through University Matriculation Examination (UME), by Direct Entry, or through Inter-University Transfer.

(1) **University Matriculation Examination (UME) Entry into 100 Level:**
Candidates must have five credits at the Senior Secondary School Certificate Examination or National Examination Council (SSCE or O/L GCE or NECO) in English Language, Mathematics, Chemistry, Physics and Biology at not more than 2 sittings. In addition, the students must pass the University Matriculation Examination (UME). The university reserves the right to further screen the students for admission by oral interview or examination.

(2) **Direct Entry into 200 Level:**
Candidates must have passed at least 3 relevant subjects at the advanced level in the General Certificate of Examination. The subjects include Biology, Chemistry and Physics. However the students must also have satisfied the requirements for matriculation with five credit passes of GCE/SSCE.

(3) **Transfer:**
Transfer students from other departments within the school after completion of 100 level may be considered for admission into 200 level of the B.Sc degree of this university. However the students must have also satisfied the senate requirements to proceed to 200 level which is a GPA ≥ 1.50.

**COURSE CONTENT SPECIFICATIONS/SYLLABUS OF ALL COURSES IN THE PROGRAMME**

**YEAR ONE (100 Level)**

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
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<tbody>
<tr>
<td>GST 111</td>
<td>Communication in English</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 112</td>
<td>Logic, Philosophy &amp; Human existence</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 113</td>
<td>Nigerian peoples and Culture</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>CHM 111</td>
<td>General Physical chemistry</td>
<td>3</td>
<td>compulsory</td>
</tr>
<tr>
<td>CHM 112</td>
<td>General Organic Chemistry</td>
<td>2</td>
<td>compulsory</td>
</tr>
<tr>
<td>PHY 111</td>
<td>Mechanics and Principle of Matter, Unit and Dimensions</td>
<td>2</td>
<td>compulsory</td>
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<tr>
<td>PHY 112</td>
<td>General Physics</td>
<td>2</td>
<td>Required</td>
</tr>
<tr>
<td>PHY 113</td>
<td>Thermal Physics</td>
<td>2</td>
<td>Required</td>
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<tr>
<td>ZOO 111</td>
<td>Introductory Zoology</td>
<td>3</td>
<td>Required</td>
</tr>
<tr>
<td>BOT 111</td>
<td>Introduction to plant science</td>
<td>3</td>
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</tr>
<tr>
<td>EPS 111</td>
<td>Group Work</td>
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**SECOND SEMESTER**
<table>
<thead>
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<tr>
<td>GST 121</td>
<td>Use of Library study skills and ICT</td>
<td>2</td>
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<tr>
<td>GST 122</td>
<td>Communication in English II</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 123</td>
<td>Communication in french</td>
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<td>Compulsory</td>
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<tr>
<td>ZOO 121</td>
<td>Functional Zoology</td>
<td>3</td>
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<tr>
<td>CHM 121</td>
<td>General Inorganic Chemistry 1</td>
<td>3</td>
<td>Required</td>
</tr>
<tr>
<td>CHM 122</td>
<td>General Laboratory Chemistry</td>
<td>2</td>
<td>Required</td>
</tr>
<tr>
<td>CHM 123</td>
<td>General Organic Chemistry 11</td>
<td>2</td>
<td>Required</td>
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<tr>
<td>PHY 121</td>
<td>Electromagnetism 1</td>
<td>2</td>
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<tr>
<td>PHY 122</td>
<td>Modern Physics 1</td>
<td>2</td>
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<tr>
<td>PHY 123</td>
<td>Vibrations, Waves and Optics</td>
<td>2</td>
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<td>PHY 100</td>
<td>Practical Physics</td>
<td>1</td>
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<td>CSC 123</td>
<td>Computer Application 11</td>
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<td>BOT 121</td>
<td>Plants Structure &amp; Function</td>
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<td>EPS 121</td>
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**YEAR TWO (200 LEVEL)**

**FIRST SEMESTER**

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<tr>
<td>ANA 211</td>
<td>Gross Anatomy of Upper &amp; Lower Limbs</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ANA 212</td>
<td>General histology and cytology</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ANA 213</td>
<td>General embryology</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>BCH 211</td>
<td>Introduction to Biochemistry</td>
<td>2</td>
<td>Required</td>
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<tr>
<td>BCH 312</td>
<td>Analytical Biochemistry</td>
<td>2</td>
<td>Required</td>
</tr>
<tr>
<td>PHS211</td>
<td>Introductory and General physiology</td>
<td>2</td>
<td>Required</td>
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<tr>
<td>PHS 212</td>
<td>Blood and body fluid physiology</td>
<td>2</td>
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<td>PHS 213</td>
<td>Cardiovascular physiology</td>
<td>2</td>
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<tr>
<td>CSC 114</td>
<td>Data processing &amp; file management</td>
<td>2</td>
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<tr>
<td>GST 211</td>
<td>History and Philosophy of Science</td>
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**SECOND SEMESTER**

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<tr>
<td>ANA 221</td>
<td>Gross Anatomy of Thorax &amp; Abdomen</td>
<td>3</td>
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<tr>
<td>ANA 222</td>
<td>Systemic Histology I</td>
<td>3</td>
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<td>ANA 223</td>
<td>Systemic Embryology I</td>
<td>3</td>
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<tr>
<td>BCH 222</td>
<td>Carbohydrate Chemistry &amp; Metabolism</td>
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<td>PHS 221</td>
<td>Renal Physiology</td>
<td>2</td>
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<td>PHS 222</td>
<td>Respiratory Physiology</td>
<td>2</td>
<td>Required</td>
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<tr>
<td>PHS 233</td>
<td>Neuroscience I</td>
<td>2</td>
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<tr>
<td>GST 221</td>
<td>Peace Studies and Conflict Resolution</td>
<td>2</td>
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<td>EPS 221</td>
<td>Entrepreneurial studies</td>
<td>2</td>
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**YEAR THREE (300 LEVEL)**
### First Semester

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<tr>
<td>ANA 311</td>
<td>Gross Anatomy of Pelvis &amp; Perineum</td>
<td>3</td>
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<tr>
<td>ANA 312</td>
<td>Systemic Histology II</td>
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<tr>
<td>ANA 313</td>
<td>Systemic Embryology II</td>
<td>3</td>
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<td>ANA 314</td>
<td>Relevant Laboratory Techniques</td>
<td>3</td>
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<td>PHS 311</td>
<td>Gastrointestinal Physiology I</td>
<td>2</td>
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<td>PHS 312</td>
<td>Endocrine and Reproductive Physiology</td>
<td>2</td>
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<tr>
<td>BCH 313</td>
<td>Amino Acid, Lipids and Protein Metabolism</td>
<td>2</td>
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<td>BCH 316</td>
<td>Enzymology</td>
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<td>EPS 311</td>
<td>Entrepreneurial studies</td>
<td>2</td>
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<td>BIO 310</td>
<td>Biostatistics</td>
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### Second Semester

**Industrial Training (SIWES Programme)** 6 CREDITS

### Year Four (400 Level)

#### First Semester

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<td>3</td>
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<tr>
<td>ANA 412</td>
<td>History of Anatomy and medical genetics</td>
<td>3</td>
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<td>ANA 413</td>
<td>Neuroanatomy I</td>
<td>3</td>
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<tr>
<td>ANA 414</td>
<td>Histochemistry I</td>
<td>3</td>
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<tr>
<td>ANA 415</td>
<td>Cell Biology</td>
<td>3</td>
<td>Compulsory</td>
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<tr>
<td>ANA 416</td>
<td>Seminar</td>
<td>3</td>
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<td>ANA 417</td>
<td>Comparative Anatomy</td>
<td>3</td>
<td>Compulsory</td>
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<tr>
<td>PHM 310</td>
<td>Introductory Pharmacology</td>
<td>3</td>
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#### Second Semester

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<tbody>
<tr>
<td>ANA 421</td>
<td>Surface and Living anatomy</td>
<td>3</td>
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<tr>
<td>ANA 422</td>
<td>Anatomical &amp; Museum Techniques</td>
<td>3</td>
<td>Compulsory</td>
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<tr>
<td>ANA 423</td>
<td>Neuroanatomy II</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ANA 424</td>
<td>Histochemistry II</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ANA 424</td>
<td>Electron Microscopic Technique and Ultrastructure</td>
<td>3</td>
<td>Compulsory</td>
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<tr>
<td>ANA 425</td>
<td>Research Project</td>
<td>6</td>
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### Detailed Course Contents
### 100 LEVEL:

**ZOO 111: INTRODUCTION ZOOLOGY**  
3 UNITS  
Man population growth and impact on the biosphere, Faunal biodiversity, invertebrata: Protozoa, coelenterate, platyelminthesannelida, mollusca, arthropoda, Vertebrata, cephalochordate, pisces, amphibian, repilia, aves, mammalian, Mammalian anatomy, anatomy of *Rattus rattus*.

**CHM 111: GENERAL PHYSICAL CHEMISTRY**  
3 UNITS  

**CHM 112: GENERAL ORGANIC CHEMISTRY 1**  
2 UNITS  
History survey of the development and importance of organic chemistry, Nomenclature and classes of organic compounds, Homologous series. Functional groups, isolation and purification of organic compounds. Qualitative and quantitative organic chemistry, Resonance and inductive effects Stereochemistry.

**PHY 111: MECHANICS AND PROPERTIES OF MATTERS UNIT AND DIMENSIONS**  
3 UNITS  

**PHY 112: GENERAL PHYSICS**  
3 UNITS  
Work Power, momentum, conservation laws- conversation of energy and momentum periodic motion of an oscillatory velocity acceleration of a sinusoidal oscillator Equation of motion of a simple harmonic oscillator, damped oscillator forced oscillation Elastic properties of solids module of Elasticity, fluid mechanic and drodynamis.

**PHY 113: THERMAL PHYSICS**  
3 UNITS  
Heat and temperature, Thermometers and scales of temperature changes of state, latent heats, critical points calorimetric, specific heats isothermal and adiabatic changes. Gas laws, Kinetics theory of gases Heat transfer: Conduction, Convection and radiation Black body radiation, energy spectrum Stefan’s law, Wein’s law.

**GST 111: COMMUNICATION IN ENGLISH I**  
2 UNITS  
Effective communication and writing in English Language skills, writing of essay answers, comprehension, sentence construction, outlines and paragraphs, collection and organization of materials and logical presentation, punctuation.

**GST 112: LOGIC, PHILOSOPHY AND HUMAN EXISTENCE**  
2 UNITS  
A brief survey of the main branches of philosophy. Symbolic Logic, Special symbols in symbolic logic-conjunction, negation, affirmation, disjunction.

**GST 113: NIGERIAN PEOPLES AND CULTURE**  
2 UNITS
Study of Nigerian history, culture and arts in pre-colonial times, Nigerian’s perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, Indigene/settler phenomenon, Concepts of trade, economic self-reliance, social justice, Individual and national development, Norms and values, Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems.

BOT 111: INTRODUCTORY BOTANY 3 UNITS
Introduction to plant science: diversity of living organism, habitats, life forms, mode of nutrition, size shape et., element of ecology and common features of living organisms; nomenclature and classification. Plant cell, functions of organelles: Brief survey of viruses, bacteria PPLO, General survey of plants in the five kingdoms, highlighting their life cycles and evolutionary relationship.

CSC 113: COMPUTER APPLICATION 1 3 UNITS
General introduction to Computer Science, Computer hardware (History of computer, generation of computer, evolution & types of computers, classification of computers, architecture, data representation in memory, typical computer configuration Computer Software (History & Generation, software types programming Languages and feature, introduction to Window & DOS operating system). Programming steps. Organization chart of computer centre, categories of computer application, use of computer advantaged & disadvantages of computers, introduction to word processing, Data communication (Basic concept & methods, Computer networks, Internet & E-mail concept). Data processing (Properties, Type of processing, batch processing). Number representation (Binary mathematics, Number conversion).Computer Viruses and protections.
Practical Session. Physical Computer operation, hardware study.

BOT 121: PLANT STRUCTURE AND FUNCTIONS 3 UNITS
The flowering plant structure and functions, similarities and differences in plant features. Plant in action including respiration, photosynthesis, water relations, translocation and mineral nutrition plant reproduction, seed production and germination.

ZOO 121: FUNCTIONAL ZOOLOGY 3 UNITS
Embryology; Gametogenesis, fertilization and cleavage as demonstrated by amphioxus, Genetics: The Cell and distribution of genetic material, mitosis, meiosis, inheritance, sex determination and sex linked inheritance. History; Cell tissues, organ formation and main features. physiology; Function of mammalian skin, muscles/skeletons, alimentary system/nutritional requirements and deficiencies.

CHM 121: GENERAL INORGANIC CHEMISTRY 3 UNITS
Periodic table and periodic properties, chemical bonding and theory, Hybridization. Structure of solids. The chemistry of selected representative elements. Qualitative Analysis.

CHM 122: GENERAL LABORATORY CHEMISTRY 2 UNITS
Theory and practice of qualitative chemical analysis acid- bases, oxidation-reduction, precipitation and complexometric titrations, Gravimetric analysis. Calculations, data analysis and organic analysis for elements in Group II, IIIA IIIB, IV- Chemical analysis etc.

CHM 123: GENERAL ORGANIC HEMISTRY 2 UNITS
Polar functional group chemistry, Alcohols and phenols, Aldehydes and ketones, Carboxylic acid and derivatives (anhydrides and acid halids amides) Amino acids, fats and oils, carbohydrates and natural products.

PHY 121: ELECTROMAGNETISM I 3 UNITS
Electrostatics, Electric field, strength flux inverse square law- Coxcomb law of force Gauss law, simple applications to electric fields and potentials; fields due to simple change distribution; energy in electric field; capacitance; combination of Capacitance dielectrics; polarization energy stored in capacitors; changing and discharging of capacitor (time constant). Electric dipoles electric fields and potential due to dipoles, in electric fields work done due to dipoles.
Steady current, simple circuits, potential difference holmic law power: electromotive force; internal resistances combination of resistance combination of cells, Kerchoffs, Laws: measurement of electrical qualities; potentiometer, heat Sore bridge; potential dowdier (General of circuit theory) Magnetic effect of currents. Magnetic fields due to simple electric circuits Electromagnetic forces; moving coil galvanometer, ammeters Voltmeters.

PHY 122: MODERN PHYSICS I 2 UNITS
Atomic nature of mater, discovery of the electron quantization of electricity (Milikans experiment) cathodes rays, Measurement of electric charge; specific charge (e/m).Structure of the atom, atomic model, Thomson’s model; Rutherford’s nuclear model.Bohis model; the hydrogen atom. The nuclear; Structure of the nuclear; size binding energy of the nuclear binding fraction packing fraction x-rays production of X –Rays Properties of X –Rays Application. Of X- Ray diffraction; Braggs equation, X-ray spectra (continuous and line spectra) Mosely’s equation and application.
Planck quantum theory.; de-Brag lies hypothesis wave particle duality Radioactivity-natural and artificial radio activity β Y decays.
Detection of radiations.

PHY 123: VIBRATIONS, WAVES AND OPTICS I 3 UNITS
Waves –types of waves Characteristics of waves propagation of waves in material media. Vibrations in solids, propagation of sounds in solids, liquids and gases, Sound wave, wave theory of light; polarization of light Rectilinear propagation of light reflection Refractions; mirrors, lenses, lens combinations; optical instruments
Doppler effect, Echo, sound ranging Ultrasonic and application of these.

PHY 100: PRACTICAL PHYSICS 1 UNIT
Selected Experiments related to the course

GST 121: USE OF LIBRARY, STUDY SKILLS AND ICT 2 UNITS
Brief history of libraries, library and education, University libraries and other types of libraries, study skills (reference services. Types of library materials, using library resources including e-learning, e-materials, etc, understanding library catalogues (card, OPAC, etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing, Development of modern ICT, Hardware technology, software technology, Input devices, storage devices, Output devices, communication and internet services, word processing skills (typing, etc).

GST 122: COMMUNICATION IN ENGLISH II 2 UNITS
Logical presentation of papers, Phonetics, Instruction on lexis, art of public speaking and oral communication, figures of speech, precise report writing.

GST 123: COMMUNICATION IN FRENCH 2 UNITS
Introduction to French, Alphabets and numeric for effective communication (written and oral), Conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

CSC 123: COMPUTER APPLICATION 3 UNITS
Aim and objectives of package, Structure of packages, Difference between packages and conventional programming languages, capabilities and limitation of packages; Types/Class of packages (word processor, spreadsheet, graphic animation, 3D, Utilities, database), Study and practical use of Windows, Word, Excel Power point, and Access Practical Session. Students shall be expected to study and practice heavily on their own five current software packages.

200 LEVEL
FIRST SEMESTER
ANA 211: INTRODUCTORY ANATOMY AND GROSS ANATOMY OF UPPER LIMB AND LOWER LIMBS 3 UNITS
Introductory Anatomy:
Descriptive terms, planes and terms of relationship of the human body, terms of comparison, attachment of muscles, types of muscles, movements of joints, osteology, principles of kinesiology, general organization of body systems.

Upper Limb:
Pectoral region and mammary gland; axilla and brachial plexus, back deltoid and scapular regions, arm, forearm, hand, bones and joints.

Lower Limb:
Front and medial sides of the thigh, gluteal region, back of the thigh and popliteal fossa, leg, sole of foot, bones and joints. Surface Anatomy, Applied and Reagiological Anatomy of Upper and Lower Limbs.

ANA 212: HISTOLOGY OF BASIC TISSUES 3 UNITS
Components of the cell, cell cycle, chromosomes, protein secretion and transcription of DNA. Introduction to light microscopy, electron microscopy and units of measurement. Basic tissues of the body, the epithelial, connective tissues and nervous tissue. Lymphoid Organs.

ANA 213: GENERAL EMBRYOLOGY 3 UNITS
Gametogenesis, cyclic changes in the female genital tract, fertilization, blastocyst, gastrulation and formation of germ layers, segmentation of mesoderm, folding of embryo, fetal membranes, umbilical cord and placentation. Development of limbs and teratology. Developmental anomalies and clinical syndromes.
SECOND SEMESTER
ANA221: GROSS ANATOMY OF THORAX, AND ABDOMEN, 3 UNITS
THORAX: Thoracic wall, pleura, lungs, heart, and coronary vessels mediastinum and diaphragm.
ABDOMEN: Anterior abdominal wall and hernia, external genitalia, stomach and intestines, blood supply, gut. Liver, pancreas, spleen, kidney and supra-renals.

ANA 222: SYSTEMIC HISTOLOGY (ORGANOLOGY) 3 UNITS
Cardiovascular system, skin, gland of the skin, structure of nails and hair. Respiratory system. Digestive system, urinary and genital systems. Electron micrographs studies of each organ.

ANA 223: SYSTEMIC EMBRYOLOGY (ORGANOGENESIS) 3 UNITS
Development of cardiovascular system, integumentary system, respiratory system, digestive system, urogenital system. Developmental anomalies and clinical syndromes.

YEAR THREE
FIRST SEMESTER
ANA 311: GROSS ANATOMY OF PELVIS AND PERINEUM. 3 units
Male and female perineum, pelvis wall and floor, pelvic peritoneum, viscera nerves and vessels. Surface anatomy.

ANA 312: SYSTEMIC HISTOLOGY II 3 UNITS
Spinal cord, brain stem, cerebrum, cerebellum, sensory receptors, eye, ear, and nose. Histology of endocrine organs.

ANA 313: SYSTEMIC EMBRYOLOGY II 3 UNITS
Development of face, pharyngeal derivatives and teratology. Development of nervous system, and sense organs. Developmental anomalies and clinical syndromes.

ANA 314: RELEVANT LABORATORY TECHNIQUES 3 UNITS
The principal step by step methods of tissue processing for light microscopy to be taught and demonstrated. The principles and techniques for the use of advance light microscopes will be taught and where possible demonstrated ie. Polarizing microscope, phase contrast, interference microscope, dark field microscope and ultraviolet microscope.

YEAR FOUR
FIRST SEMESTER
ANA 411: GROSS ANATOMY OF HEAD AND NECK 3 UNITS
Face, scalp, back and spinal cord, cranial cavity, orbit, parotid, temporal and infratemporal regions, triangles of the neck, submandibular region, nerves and vessels in deep dissection of the neck. Thyroid and parathyroid glands, prevertebral region and joints of the neck, mouth, tongue, pharynx, palate, nasal cavity and sinuses, larynx, ear and eye.

ANA 412: HUMAN GENETICS 3 UNITS
Fundamental human genetic principles, variation in gene expression in man, patterns of inheritances in families (autosomal dominant, autosomal recessive, X-linked dominant, X-linked recessive, Y-linked and sex influenced). Cytogeneticss, types and classification of human chromosomes, methods of preparations of human chromosomes and
karyotyping. Types of numerical and structural chromosomes, aberrations and causes. Gene hybridization and human genome studies.

ANA 413: NEUROANATOMY 3 UNITS
Meninges, base of brain and blood supply, hindbrain, medulla, pons, cerebellum and 4th ventricle, midbrain, diencephalons and 3rd ventricle, cerebral hemispheres, sulci and gyri, internal structure of cerebrum and lateral ventricle, basal nuclei, thalamus, and hypothalamus, synapses and reflex arcs. Sensory and ascending pathways, motor and descending pathways, cerebellar connections- pathways for hearing, smell and vision. Autonomic nervous system.

ANA 414/424: HISTOCHEMISTRY I & II 3/3 UNITS
Principles and techniques of histochemistry including immunocytochemistry.

SECOND SEMESTER
ANA 421: SURFACE AND LIVING ANATOMY 3 UNITS
Practical cum demonstration exercises to map out surface representations of major internal organs of the body. Recognition and demonstration of major visible anatomical features of the living human subject.

ANA 422: ANATOMICAL AND MUSEUM TECHNIQUES 3 UNITS
Techniques for preservation of gross anatomical tissues for teaching and research. These will include embalming and Cadaver preservation. Wet and dry specimen preparation techniques for the museum set-up and maintenance.

ANA 424: INTRODUCTION TO ELECTRON MICROSCOPY ELECTRON MICROSCOPIC TECHNIQUES AND ULTRASTRUCTURE 3 UNITS
History of electron microscope. Types of electron microscope. Basic principle of the structure and function of electron microscope. Tissue sample acquisition techniques, tissue processing and examination, photographic recording of ultra-structural images shall be taught. Where possible, practical aspects should be demonstrated.

ANA 425: RESEARCH PROJECT 6 UNITS
Students will undertake research projects on simple problems in areas of their interest and guided by their Supervisors. In addition to experimental work, the students will be required to learn how to search and complete the literature review, collect, arrange and present bibliography.

LIST OF ACADEMIC STAFF

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES</th>
<th>QUALIFICATIONS</th>
<th>RANK</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Dr. Okwuonu U. C</td>
<td>B.Sc. Anatomy(Calabar) 1998; M.Sc. 2006, Ph.D 2016</td>
<td>Lecturer/Ag, HOD</td>
<td>FT</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Adagbonyin</td>
<td>MBBS (Uniben) 2003.</td>
<td>Lecturer II</td>
<td>FT</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Omotoso</td>
<td>B.Sc.(Ilorin) 2005; M.Sc. (Uniben) 2010.</td>
<td>Lecturer II</td>
<td>FT</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Bienonwu</td>
<td>B.Sc. (Ilorin) 2004; M.Sc. (Uniport) 2010.</td>
<td>Lecturer II</td>
<td>FT</td>
</tr>
</tbody>
</table>
## LIST OF TECHNICAL/NON-ACADEMIC STAFF

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES</th>
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<th>QUALIFICATIONS</th>
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<tbody>
<tr>
<td>1</td>
<td>Uwagbor V.S.</td>
<td>Technologist II</td>
<td>B-TECH</td>
<td>FT</td>
</tr>
<tr>
<td>2</td>
<td>Izekor .S. O</td>
<td>Laboratory Supervisor.</td>
<td>School leaving cert, Modern 3 Certificate.</td>
<td>FT</td>
</tr>
<tr>
<td>3</td>
<td>Akpata .E. S</td>
<td>Snr. Mortuary attendant</td>
<td>Primary six certificate</td>
<td>FT</td>
</tr>
<tr>
<td>4</td>
<td>Eriamiatoe .O</td>
<td>Laboratory assistant</td>
<td>Primary six certificate</td>
<td>FT</td>
</tr>
<tr>
<td>5</td>
<td>Omorogiwa E. F</td>
<td>Snr. Laboratory Assistant</td>
<td>SSCE</td>
<td>FT</td>
</tr>
<tr>
<td>6</td>
<td>Omogiade V</td>
<td>Laboratory Assistant</td>
<td>Primary Six certificate</td>
<td>FT</td>
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</tbody>
</table>
HISTORY OF BIOCHEMISTRY PROGRAMME

The Department of Biochemistry in the College of Health Sciences, Igbinedion University, Okada was established in 2000 sequel to the approval and establishment of the University in 1999. The Igbinedion University is the first private University that started Medicine as a course of study. The Department of Biochemistry was established on the 25th September, 2000, in the School of Basic Medical Sciences to cater for the medical biochemistry programme required to satisfy the Basic Medical Sciences requirements for MBBS degree programme. The B.Sc. degree programme was introduced in the year 2000.

The Department of Biochemistry today run full B.Sc. degree programme and teaches Biochemistry courses to students in the Basic Medical Sciences (Anatomy. Biochemistry, Physiology and Medical laboratory sciences), Nursing, Biological Sciences and College of Pharmacy. The curriculum is broad-based and the scope gives a solid background to the students.
This will enable those that are Biochemistry majors to play a significant role in a variety of areas namely health, environment and agriculture.

PHILOSOPHY AND OBJECTIVES OF BIOCHEMISTRY PROGRAMME

Philosophy: The philosophy of the Department of Biochemistry of Igbinedion University, Okada is in accordance with the philosophy of Education in Nigeria and that of the Igbinedion University, thus:

1. The Department should produce graduates who will be of high academic standing with adequate practical exposure that can function adequately in the improvement of medical education processes, research, industrial and agricultural.

2. The Department believes that the students should be trained in theoretical, practical and applied Biochemistry, which will make them suitable tools capable of utilizing the knowledge to solve future problems in medicine, agriculture, industry, environment etc.

3. The Department believes that our graduates should be able to do things as entrepreneur whether self-employed or in public service.

Objectives of the B.Sc. degree programme in BIOCHEMISTRY

1. To inculcate into the students a broad-scientific discipline.

2. To provide students with a broad and balanced foundation of biochemical knowledge and practical skills.

3. To develop in students the ability to apply knowledge and skills to solving theoretical and practical problems in biochemistry.

4. To develop in students, a range of transferable skills that are of value in biochemical and non-biochemical employment.

5. To provide student with knowledge and skills base, from which they can proceed to further studies in specialized areas of biochemistry or multidisciplinary areas involving biochemistry.
6. To provide thorough training and orientation, an appreciation of the solitary rewards of inter-and multidisciplinary approach to the solution of complex life problems.
7. To generate in students, an appreciation of the importance of biochemistry in industrial, economy, environment, technology and social development.
8. To instill in students a sense enthusiasm for biochemistry, in appreciation of its application in different contexts and to involve them in an intellectually stimulating and satisfying experience of learning and studying.
9. To provide a solid academic background upon which to build more advanced degrees in (M.Sc., PhD).

**Objectives of the Biochemistry programme for Pre-clinical Medicine.**
1. To provide a sound and all round education in the basic science of biochemistry to the medical students
2. To create better awareness of the relevance of biochemistry to medicine in particular and in other ways help to meet the manpower need of the country.
3. To provide specialized training in biochemistry to students
4. To instill in medical students the research skills in biochemistry relevant to the improvement of their medical studies.

**STAFF LIST**

**A ACADEMIC STAFF**

<table>
<thead>
<tr>
<th>S/ N</th>
<th>NAME</th>
<th>ACADEMIC QUALIFICATION</th>
<th>RANK</th>
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</thead>
</table>
B. TECHNICAL STAFF

<table>
<thead>
<tr>
<th>S/NO</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>RANK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mr. Nelson Asogu</td>
<td>SSC</td>
<td>Snr. Lab. Asst.</td>
</tr>
</tbody>
</table>

ADMISSION REQUIREMENTS INTO THE BACHELOR OF SCIENCES (B.Sc.) BIOCHEMISTRY PROGRAMME

The admission of candidates into the Bachelor of Science Biochemistry programme is done in one of the three ways:

**Through University Tertiary Matriculation Examination (UTME)**

In addition to an acceptable pass in UMTE, candidate seeking admission into B.Sc. Degree programme in Biochemistry must have not less than ordinary level credit passes in at least five (5) SSCE /GCE, SSCE /NECO (or acceptable equivalents) subjects including English Language, Mathematics, Physics, Chemistry and Biology in not more than two sittings. Candidates are, in addition, required to submit themselves for a written examination and oral interview before admission is finally offered to deserving candidates.

**By Direct Entry**

Candidates seeking direct entry admission into the Biochemistry programme must in addition to satisfying the University matriculation requirements, have a minimum of two GCE Advanced level passes in relevant Science subjects including Biology, Chemistry and Physics.

Candidates who possess good Diploma Certificate in relevant field of study can be offered direct entry into the Biochemistry Programme.

**Inter-University Transfer**

Candidates wishing to transfer into the Department (Biochemistry) from other Universities must obtain and fill the Inter–University Transfer form from the University Admission’s Officer.
Each application for transfer will be treated on its own merit. No candidate will be admitted from other Universities unless the College and the Department are satisfied that the candidate has met the minimum academic standard required for each level.

EXAMINATION REGULATIONS
All courses taught during each semester shall be examined at the end of that semester.

Only students who are duly registered for courses in a given semester and have met their financial obligations to the university shall be eligible to sit for examination in those courses.

Students shall report at the stipulated examination halls fifteen minutes before the start of the examination.

No candidate shall be allowed into the examination hall after 30 minutes of the start of the examination or leave within 30 minutes of the conclusion of the examination.

Candidates must not bring into the examination hall any handset, computer, textbooks or notes, or involved in any other form of exam malpractices.

Any candidate caught cheating during examinations must be made to complete the examination malpractice form, which shall be handed over to the Dean for further action.

Candidates shall comply with instructions given by the Chief Invigilator as to the submission of their answer booklet at the conclusion of the examination.

COURSE LISTING
Courses are listed in the handbook in the following categories:

REQUIRED COURSES OR MANDATORY COURSES (R): These are courses which the department requires the student to take and pass but may not be used in computing the final degree result.

CORE COURSES (C): Courses the students must take and pass and must be used in computing the final result.

ELECTIVE COURSES (E): These are courses chosen by the student according to his interest in addition to those he/she must take to complete his degree requirements. The student needs to be guided by his course adviser.

PRE-REQUISITE COURSES
These are courses the knowledge of which is necessary prior to the taking of other specified (usually higher level) courses. A student is deemed to have obtained the pre-requisite knowledge if he obtains a mark not less than 30% but will not be credited with any grade point unless he scores a minimum mark of 45%.

Pre-requisite courses must be reflected where applicable. As much as possible no course shall be a pre-requisite for a course at the same level.
**QUANTIFICATION OF COURSES**

Courses shall be quantified and evaluated according to credit units. A credit unit refers to lecture/tutorial contact hour per week (i.e. fifteen hours of lecture /tutorial per semester) or three hours of laboratory practical class per week (i.e. forty-five (45) hours per semester).

No course shall be less than two (2) units and no lecture course shall normally be more than four (4) units.

**REGISTRATION FOR COURSES**

In every academic session, the first week of the first semester is usually the period for course registration. The period shall be lecture–free to ensure that the students are fully attended to.

Registration time will be from 8.00am to 4.00pm daily during this period.

Students in every level will be assigned lecturers to register them in the department during the exercise.

All the core and required or mandatory courses failed in the previous year/session must be registered first before proceeding with new courses.

Late registration (i.e. beyond the stipulated duration) usually attracts penalty.

Any student who fails to register within two (2) months from the beginning of a session shall forfeit the benefit of taking any examinations in a semester of that session. Such a student shall be deemed to have voluntarily withdrawn from the university and may be readmitted only with the approval of senate.

**CHANGE OF COURSES**

Intra-University transfer of students into Department (e.g. changing from Pharmacy to Biochemistry etc.) must be completed within one (1) month after lectures begin at the commencement of each semester.

Students wishing to add or drop a subject in any semester may do so using “add and delete” forms. This will be done within two (2) weeks of commencement of lectures in each semester.

**WORK LOAD**

A student is allowed to register for and take a minimum of thirty (30) credits and a maximum of fifty (50) credits each session (i.e. 15 credit units per semester, minimum, and 25 credit units, maximum).

A graduating student who has less than thirty (30) credits may register for only the number of credits he requires to graduate.

A student desiring to carry more than the maximum prescribed course load must apply to the Dean through the Head of Department.

**COURSE ADVISER**

A Course Adviser is a member of Academic staff who checks and recommends the approval of students’ registration forms. He guides, advises students and ensures that they make
choices consistent with the degree regulations and requirements. The department appoints course advisers for level of the students.

**ATTENDANCE TO LECTURES**

Student’s attendance to lectures is controlled by an attendance list. This record is kept from the commencement of lectures at the beginning of every semester until lectures have been completed. A student must have attained up to 75% minimum contact hours before he is allowed to take the examination in the particular course. The attendance register shall be used by the course lecturer(s) for the submission of the students’ score/grade in that course.

**EVALUATION OF STUDENTS IN THE UNIVERSITY COURSE WORK**

The students’ course work will be evaluated using the following:

- Continuous assessment
- Laboratory practical reports
- Students Industrial Work Experience scheme (SIWES)
- Written examination.

**GRADING OF EXAMINATIONS**

The final grading of a taught course will consist of continuous assessment (30%) and examination (70%). Continuous assessment comprises assignments, tests and/or practical. The pass mark for every course is 45%.

Students’ results are prepared after the examinations every semester. This reflects raw scores, grades, total unit taken, total units passed and total units failed.

At the end of a session, a summary of students results is prepared for each level showing the credits taken and the credits passed during the session, the Grade Point Average (GPA), the courses failed, the cumulative unit taken, the cumulative unit passed, the Cumulative Grade Point Average (CGPA) and remarks of proceed, probation (repeat) or withdrawal from the degree programme.

At the end of the degree programme, students results are prepared reflecting details of the session’s performance including list of courses failed for the session as well as the cumulative performance and the degree classification (where applicable).

Both the session GPA and CGPA are calculated using the weighted grade point. The weighted graded point of the course is the product of the point and units for the course. Thus a student who scores 80% in a three unit course has a grade point of 5 and a weighted grade point of 3 X 5 = 15 for that course.

GPA is calculated from the formula

\[
\text{GPA} = \frac{\text{Total Weighted points for all courses in the semester}}{\text{Total Credit Units taken for the semester}}
\]

CGPA is calculated from the formula;

\[
\text{CGPA} = \frac{\text{Total Weighted Points for the session}}{\text{Total Credits taken for the session}}
\]
Provided that all courses taken are relevant and used in the computation of the averages. The inclusion of the column for cumulative taken in each of the formats for presentation of result to Senate and to the College Board enables one to keep track record of weighted grade points being carried forward to the next session (being products expressed to the nearest integer of the CGPA and the cumulative units taken) where applicable.

PROBATION
A student who makes a CGPA of 1.50 or more at the end of the session will proceed to the next level of degree programme for which he is registered.

A student at 300 level or below who makes a CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable him improve on the CGPA. During that session he must register for the appropriate core courses and the other courses he has as pre-requisites.

A student on probation during a session who makes a CGPA of less than 1.50 in the following academic session must withdraw from the degree program for which he is registered.

If a student changes to a new degree programme and obtains a CGPA of less than 1.5 in the new programme, he/she will again be on probation. If however he, obtains a CGPA of less than 1.5 a second time in the new programme he will be asked to withdraw from the University.

TRANSFER
Every student seeking transfer from one degree programme to another must complete the necessary form within the stipulated time.

All courses taken in the previous degree programme that are relevant to the new degree programme by the offering department will be used for the computation of CGPA for the new degree programme.

All regulations in respect of the new programme concerning core courses, required courses etc. must be met before graduation.

HONOURS CLASSIFICATION
No student shall qualify for award of an honours degree of the University if he spends more than two sessions (fours semester) beyond the normal period allowed for the degree programme.

No student who has transferred more than twice will be qualified for an honours degree.

AWARD OF DEGREE
At the end of the degree programme, students’ results are prepared reflecting details of the session’s performance. This includes list of courses failed for the session as well as the cumulative performance and the degree classification according to the following scheme.

<table>
<thead>
<tr>
<th>CGPA</th>
<th>CLASS OF DEGREE</th>
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</thead>
<tbody>
<tr>
<td>4.50-5.00</td>
<td>First Class Honours</td>
</tr>
<tr>
<td>3.50-4.49</td>
<td>Second Class Honours (Upper Div.)</td>
</tr>
<tr>
<td>2.40 -3.49</td>
<td>Second Class Honours (Lower Div.)</td>
</tr>
</tbody>
</table>
CONFERMENT OF DEGREE
After the recommended examination results from the College Board had been approved by the university senate, successful candidates shall be admitted either in person or in absentia to the degree of the university at the convocation for the award of degrees. There after the candidates shall be issued with certificates under the common seal of the university.

ACADEMIC PROGRAMMES OFFERED IN THE DEPARTMENT OF BIOCHEMISTRY

100 LEVEL
First Semester

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course Title</th>
<th>Credit units</th>
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<tbody>
<tr>
<td>BOT 111</td>
<td>Introduction to plant science</td>
<td>3</td>
</tr>
<tr>
<td>CHM 111</td>
<td>General Chemistry I (Physical)</td>
<td>3</td>
</tr>
<tr>
<td>CHM 112</td>
<td>General Chemistry (Organic)</td>
<td>2</td>
</tr>
<tr>
<td>EPS 111</td>
<td>Group Work</td>
<td>0</td>
</tr>
<tr>
<td>GST 111</td>
<td>Communication in English Language</td>
<td>2</td>
</tr>
<tr>
<td>GST 112</td>
<td>Logic, philosophy &amp; Human existence</td>
<td>2</td>
</tr>
<tr>
<td>GST 113</td>
<td>Nigeria People and culture</td>
<td>2</td>
</tr>
<tr>
<td>PHY 111</td>
<td>General Physics I</td>
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<td>General physics III</td>
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**TOTAL CREDITS 23**

100 LEVEL
Second Semester

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**TOTAL CREDITS 24**

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TOTAL CREDITS 24

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Second Semester

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### 400 LEVEL
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**BCH 211 (3) General Biochemistry I**

BCH 221 (3) General Biochemistry II  

BCH 222 (3) Metabolism of Carbohydrates  
Degradation and digestion of carbohydrates i.e. sugars, storage polysaccharides and cell walls. Glycolysis and the tricarboxylic acid (TCA) cycle. electron transport chain and Oxidative phosphorylation, cori cycle. The phosphogluconate pathway and the Glyoxylate pathway. Glycogenolysis and Glycogenesis, Gluconeogenesis, Disorders of Carbohydrate Metabolism.

300 LEVEL  
BCH 311 (3) Lipid Metabolism  

BCH 312 (3) Methods in Biochemistry  

BCH 313 (3) Metabolism of Amino acids and Proteins  

BCH 314 (2) Membrane Biochemistry  
Structure and functions of biochemical membrane, Isolation, characterization and classification of membrane, Chemistry and biosynthesis of membrane, Molecular organization of membrane components, Natural and artificial membrane bilayers, The unit membrane hypothesis, Transport systems - passive, facilitated and active transport of macromolecules and inorganic ions, Ionophores, Roles of biochemical membranes and immunogenicity and immunity, Membranes malfunction and associated diseases:
malfunction of transport system diabetes, sickle cell, jaundice etc: inactivity of membrane enzymes; spherocytosis, elliptocytosis etc; role of membrane malfunction in cancer.

**BCH 315 (2) General Biochemistry Lab. (Practical)**

Appropriate experiments based on General Biochemistry I and II viz chemistry of amino acids and proteins, carbohydrate, nucleic acids, and lipids enzyme studies. Use of spectrophotometer, correlation between optical densities and yeast cell concentration. Appropriate experiments selected from Metabolic pathways, Food biochemistry, Nutritional biochemistry, Bioenergetics, Drug metabolism, Immunology/ immunochemistry etc.

**BCH 316 (2) Enzymology**

Revision of chemical kinetics, Classification and Nomenclature of enzymes, Mechanism of enzyme catalyzed reaction. Effects of temperature, pH, ions and inhibitors on Enzyme-catalyzed reactions, Michaelis Menten equation, Allosteric/ Regulatory enzymes, Active sites Estimation of kinetic parameters- enzyme activity, \( K_m \), \( V_{max} \), \( K_i \), Zymogen activation Digestive enzymes, Enzymes in Diagnosis.

**BCH 317 (2) Bioenergetics**

Chemical thermodynamics, Reaction orders, First, Second, Third and Zero order reactions. High energy compounds, Chemical potentials and electrochemical potentials, Redox reactions. Electron transport system and oxidative phosphorylation. Regulation of ATP production, Biochemical oxidation-reduction reactions, Catalysis and activation energy,

**BCH 324 (6) Students Industrial Work Experience**

Students will be attached to some industrial organization for 6 months from March to August. The organization so attached must bear relevance to the student’s area of specialty emphasizing biochemical knowledge and scientific principles. Lecturers should visit the students at least once. At the end of the industrial attachment, three copies of a written report of the student’s experiences should be submitted to the department in hard bound cover.

**400 LEVEL**

**BCH 410 (3) Plant Biochemistry**


**BCH 411 (2) Metabolic Regulation**

The relationship of krebs’ cycle to protein, carbohydrate, lipid and nucleic acids metabolism. Integration of metabolic pathways. Metabolic control mechanisms Turnover rates and metabolic pools. Regulations of enzymes of metabolic pathways (feedback inhibition. Versus enzymes synthesis. Catabolite repressions end product repression the lactose operon and
arabinose operon). Regulation of protein and amino acid synthesis. Identification of different
regulatory mechanism in metabolic pathways.

BCH 412 (2) Advanced Enzymology
Production, Isolation. Purification and Characterization of enzymes Enzyme assays. Criteria
for determining purity of enzymes Steady state enzyme kinetics. Transient kinetic methods.
Chemistry of enzymes catalysis Regulatory enzymes, Multienzymes complexes Molecular
methods for allosterism, Regulation of enzymes activity and synthesis, Enzymes
reconstitution, recent advances in enzymology

BCH 413 (3) Industrial Biochemistry
Continuous culture methods, principle and applications. The chemostat and its application in
industrial fermentation, Fermentation –Alcoholic, amino acids, antibiotics and other
secondary metabolites. Primary and secondary metabolism. Fermentation Biotechnology –
beer, wine and spirit production. Garri, malt, wort and beer analyses and visits to local
breweries. Over production of metabolites - amino acids, taste enhancers vitamins, Methods
for screening and selecting microorganisms and plants for the purpose of over production.
Strain selection/development and enhancement. Gene dosage and its application in industrial
processes. The biochemistry, chemistry and physiology of cereal germination process with
particular reference to barley to barley, sorghum and millet.

BCH 414 (2) Seminar
Topics should address contemporary issues in biochemistry. They may be topics taught in the
class or seminar topics given by academic staff, Topics are to be presented orally in a
presence of guided studies made of departmental academic staff, students and the interested
populace. Three copies of such well – articulated work should be bound and presented to the
department for the award of Bachelor of Science (B.Sc.) degree of biochemistry.

BCH 415 (3) Metabolism of Nucleic Acids
Genome organization, Metabolism of purines and pyrimidines. Metabolism of nucleosides
and nucleotides. Abnormalities in nucleic acid metabolism, Xeroderma pigmentation and skin
cancer.

BCH 417 (3) Biotechnology and Genetic Engineering
A brief review of replication, transcription and translation. Gene expression in prokaryotes
and viruses. The genetic code and its relation to cellular function Genetic transformation,
transduction and conjugation, DNA replication in cell – free system, Human genome project-
prospects and consequences. Recombinant DNA Technology. Application in food industries,
Agriculture and medicine. Ethical issues associated with gene manipulation

BCH 418 (2) Advanced Biochemical Methods and Use of Library
Familiarization with operation of latest biochemical equipment. Methods of research,
assimilation and dissemination of information, Effective use of library Preparation of
dissertation or theses, papers for journal publications and conference.

BCH 419 (1) Biochemical Reasoning
Logical basis of experiments, Evaluation and design of experimental biochemistry from
available information and data, Analysis, interpretation and inference – drawing from
biochemical research data.
BCH 421 (3) Food & Nutrition Biochemistry

Nutritional requirements in relation to Physiological stress, ageing, pregnancy and athletics (Nutrition of the vulnerable groups), Diet and disease, obesity and under nutrition, Principles of food technology formulations and Practice of food standards.

BCH 422 (2) Biosynthesis of Macromolecules
Structure and functions of macromolecules, storage and structural polysaccharides, mucopolysaccharides glycoproteins, synthesis of complex lipids, lipo – derived antibiotics, dextrans, Ascorbic acids, Lipoprotein. Cell wall structures and related biological macromolecules, Biosynthesis of DNA and RNA, Immunoglobulin, Ascorbic acids

BCH 423 (3) Special Topics in Biochemistry
Hormones, Oncology, Immunochemistry, Brain biochemistry, Monoclonal antibodies. Biochemistry of somatic diseases. Biochemistry of Ageing and senescence

BCH 425 (2) Clinical & Forensic Biochemistry

BCH 426 (2) Tissue Biochemistry

BCH 427 (2) Bioinorganic chemistry
Relationship between the physiochemical properties and biological functions of inorganic ions., Ligand complexes land their biochemical significance. Electrolyte metabolism, Nitrogen fixation and sulphur cycle, Trace elements in biology B.Si, Se, As, Br, F, Cl. Incorporation of Nitrogen and Sulphur, Metals in Biological processes Na+ Mg 2+, ionic gradients, mineralization, blood clotting. Metalloproteins including Zn, Pb, Co, Cu and Mo

BCH 428 (2) Pharmaceutical Biochemistry
Cellular metabolism in infected cell, Biochemical aspects of host-parasite relationships. Metabolic factors affecting chemotherapeutic agents. Theories of the mechanism of drug action. Drug resistance or factors affecting drug efficacy, Physiological and Biochemical action of selected drugs. Traditional medicinal plants, the management and therapy of common ailments malaria, sickle cell anemia, common cold, hepatitis etc., General toxicology.

BCH 499 (6) Research Project
Independent research finding undertaken by students into selected areas of biochemistry. Students will be required to carry out research on a particular topic and produce a written report at the end of the session. Students will be examined on the project undertaken, orally. Project embarked upon should emphasis biochemical principles and mechanisms.

**BIOCHEMISTRY PROGRAMME FOR BASIC MEDICAL SCIENCES**

**METHOD OF INSTRUCTION AND ASSESSMENT**

Instructions will be based on lectures, tutorials and practicals for three semesters of 17 weeks each. The allocated teaching periods for lectures, practicals tutorial/demonstration and occasionally, student’s seminar is 3 hours of practical and 7 hours of lectures/Tutorials/Demonstration per week. Students will be assessed on a continuous basis with two in-course examinations and the Part 1 MBBS degree examination will be examined in three parts comprising Essay, multichoice questions (MCQ) and practical as paper I, II, III, respectively. All in-course and end of semester examinations shall contribute 30% while the part I MBBS degree examination shall contribute the remaining 70% of the total score for determining the final grade of the part I MBBS examination.

As a way of ensuring conformity with the set standard for medical education programme, an External Examiner appointed by the academic board of the college moderate all papers of the part I professional degree examination in Biochemistry. Oral examination shall also be organized for all students at the end of the programme and the viva voce score shall be part of the 70% contribution to the final grade of the part I MBBS degree examination.

**PRE-CLINICAL MEDICINE BIOCHEMISTRY SCHEDULE**

The medical biochemistry courses offered by medical students at both 200 and 300 levels are all compulsory in accordance to the MDCN guide lines.

**200 LEVEL MEDICINE FIRST SEMESTER**

**BCH 211: Introduction To Biochemistry**

- Importance of Biochemistry to other scientific disciplines. Solutions, Osmotic pressure, Acid - base chemistry , pH and buffers. Elementary Thermodynamics, Chemical kinetics and order of reactions, Organic reactions.
- **Analytical techniques in Biochemistry:** Cell fractionation, centrifugation, chromatography electrophoresis and spectrophotometry.

**BCH 212: Chemistry of Biological Molecules**

- **Structural organization of biopolymers:** Biomolecules, supramolecular structures. Structures of cell, cell organelles, cell types (Eukaryotic cells and prokaryotic cells), Integration of cellular function.

**Chemistry of fatty acids and lipids**

- Classes of lipids, fatty acid and their derivatives, common saturated fatty acids, common unsaturated fatty acids, physical properties of fatty acids, chemical properties of fatty acids, Triacylglycerols. Glycerol phospholipids, sphingolipids, waxes, isoprenoids, steroids, eicosanoids Blood lipids and the lipoprotein systems. Membranes and membrane structure.

**Chemistry of Amino acids and proteins**
Amino acids, structures, physical properties, stereochemistry, chemical reactions, peptide bond theory, chemical synthesis of peptides, ionic properties of amino acid (titration curve of glycine), isoelectric points. Protein classification, orders of protein structure, forces stabilizing protein structures.

Chemistry of Nucleotides and Nucleic acids
Structure of purine and pyrimidine bases, structure of D-ribose and 2-deoxyribose sugar, phosphoric acid, nomenclature of nucleotides and nucleosides, physical properties of nucleotides, primary structure of RNA and DNA, Hydrolysis of nucleic acids, isolation of nucleic acids.

Recombinant DNA Technology & Genetic Engineering
Isolation and manipulation of DNA to produce chimeric molecules. Restriction enzymes, DNA ligases, cloning, plasmids, phages, and cosmids. Polymerase chain reactions Practical applications of Recombinant DNA Technology.

200 LEVEL MEDICINE SECOND SEMESTER
BCH 221: Metabolism of Biological Molecules and Bioenergetics

Enzymology
General properties of enzymes, coenzymes and cofactors, classification of enzymes, kinetics of enzyme catalyzed reactions, factors that affect the rate of an enzyme catalyzed reaction. Mechanism of enzyme catalysis. Regulation of enzyme activities. Allosteric enzymes, isozymes, multienzymes, importance of enzymology in medicine.

Carbohydrate Metabolism.

Lipid Metabolism
Oxidation and biosynthesis of fatty acids, biosynthesis and degradation of acylglycerols, phospholipids.


Lipid storage diseases and their inheritance patterns, sulphatides, globosides, gangliosides and sphingolipids.

Protein/Amino Acid metabolism
Amino acid biosynthesis and catabolism, urea cycle, ketogenic and glycogenic amino acids. Creatinine and creatinine metabolism. Biosynthesis of proteins, inhibitors of protein biosynthesis.

Nucleic Acid metabolism
Biosynthesis of purine and pyrimidine nucleotides, catabolism of purine, and pyrimidine nucleotides, metabolic disorders of purine metabolism. Genome structure
and organization. Replication and Transcription of DNA, Repair of DNA, mutation, Abnormalities in Nucleic acid metabolism. xeroderma pigmentosum and skin cancer.

300 LEVEL MEDICINE THIRD SEMESTER

BCH 311: Nutritional Biochemistry


Structure and function of the water-soluble vitamins, structure and function of lipid-soluble vitamins, characteristics of deficiency symptoms. Coenzyme, structure and functions, minerals – macroelements and microelement.

BCH 312: Special Topics in Biochemistry
Biochemistry of Hormones and Prostaglandins

Imunochemistry

Neurobiochemistry

Xenobiochemistry and metabolism of drugs

Biotransformation of selected endogenous molecules, steroid, Heme and induction of microsomal enzymes.

Drug resistance: Types, origin. Drug resistance or factors affecting drug efficacy, examples of drug resistance to some diseases.

Forensic Biochemistry
Biochemistry of blood and other body fluids
Components of blood and functions. Homeostasis and thrombosis, types of thrombi, pathway for the formation of thrombi Blood clotting pathway, red and white blood cells, and blood group system. Porphyrlins, synthesis and degradation of Heme.

In-born Errors of metabolism: Molecular basis of metabolic diseases
Identifying precise biochemical abnormalities that leads to the development of disease. Case of disease from a biochemical perspectives and to emphasize that diseases result from changes of either the structures, functions or amount of certain molecules. Major classes of genetic diseases. Methods of isolating disease genes. Treatment of some genetic diseases. In-born error of amino acid metabolism, lipid metabolism and of glycogen metabolism, biochemical derangement in G-6-PD deficiency, sickle cell anemia.

Biochemistry of body organs
### DEPARTMENT OF PHYSIOLOGY
### SCHOOL OF BASIC MEDICAL SCIENCES
### OBA OKUNADE SIJUADE COLLEGE OF HEALTH SCIENCES

#### Year One (100 Level)

##### First Semester

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**TOTAL SEMESTER CREDIT UNIT** 24

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**TOTAL SEMESTER CREDIT UNIT** 27

**TOTAL SESSIONAL CREDIT UNIT** 51
### Year Two (200 Level)
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**TOTAL SEMESTER CREDIT UNIT** 25  
**CUMULATIVE CREDIT UNIT** 76

#### Second Semester

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**TOTAL SEMESTER CREDIT UNIT** 25  
**TOTAL SESSIONAL CREDIT UNIT** 50  
**CUMULATIVE CREDIT UNIT** 101

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**TOTAL SEMESTER CREDIT UNIT** 35

**CUMULATIVE CREDIT UNIT** 136

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**TOTAL SEMESTER CREDIT UNIT** 6

**TOTAL SESSIONAL CREDIT UNIT** 41

**CUMULATIVE CREDIT UNIT** 142

### Year Four (400 Level)

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**TOTAL SEMESTER CREDIT UNIT** 16

**CUMULATIVE CREDIT UNIT** 158

#### Second Semester

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**TOTAL SEMESTER CREDIT UNIT** 16

**TOTAL SESSIONAL CREDIT UNIT** 32

**CUMULATIVE CREDIT UNIT** 174
DETAILED COURSE CONTENTS

200 LEVEL
FIRST SEMESTER

PHS 211: Introductory Physiology and Excitable Tissue/Autonomic Nervous System  
2 units (C)
Introduction to physiology and its place in Medicine. The composite cell, cell membrane and 
transport mechanisms, membrane potentials. Introduction to human Genetics, Biotechnology 
and Human Genome. Physiology of excitable tissues. Functional organization of Autonomic 
Nervous System, basic characteristics of sympathetic and parasympathetic divisions.

PHS 212 Blood and Body Fluids  
3 units (C)
Compartamentalization and composition of body fluids. General characteristics and functions of 
blood. Functions and life cycle of various blood cells. Abnormalities of blood. Properties and 
functions of plasma. Red blood cells; factors involved in erythropoiesis, blood groups. White 
blood cells; origin, type, properties functions, antigenicity and immunities. Platelets and 
hemostatic mechanisms. Reticulo-endothelial system. Clotting and fibrinolytic 
systems. Immunity and immune-deficiency disease and HIV.

PHS 213 The Cardiovascular System  
3 units (C)
Overall plan and functions of the C.V.S. physiologic anatomy of the heart, mechanical events 
of cardiac cycle, cardiac output and its estimation, E.C.G. the Vascular system; cross 
sectional area of different vascular groups, systolic, diastolic, pulse and mean pressures, 
exchange of fluids across the capillaries, venous and central venous pressures. Integration of 
C.V.S. functions; central control centers, regulation of systemic blood pressure. Cardio-
vascular adaptations in health and disease. Circulation through special areas. Vascular 
endothelium in cardiovascular control.

SECOND SEMESTER

PHS 221 Renal Physiology, Skin and Temperature Regulation  
3 units (C)
Brief recapitulation of the functionality of the kidneys. Renal handling of electrolytes. 
Current concepts of concentration and dilution of urine. The renninangiotensin system. Renal 
disorders. Physiologic anatomy of the kidney, renal circulation and autoregulation. 
Glomerular filtration. Tubular transport. Urine formation: counter-current system. Water 
Endocrine functions of the kidneys. The skin: functional anatomy, temperature regulations; 
abnormalities of temperature regulation. Metabolism: factors regulating metabolism, 
conditions for measuring basal metabolic rate.

PHS 222 Respiratory System  
3 units (C)

**PHS 223  Neurophysiology I**

Development and general plan of the central nervous system. Nerve: morphology, generation and conduction of action potential. Sensory division of the nervous system; morphology receptors, sensory pathways, reticular formation, thalamus and sensory cortex.

**300 LEVEL**

**FIRST SEMESTER**

**PHS 311  Digestive/Gastrointestinal Physiology**


**PHS 312  Endocrinology and Reproduction**


**PHS 313  Neurophysiology II and special senses**

Synapse; morphology, synaptic transmission, procession of data, neurotransmitter in the CNS. Motor division of the CNS; morphology, motor cortex, basal ganglia, pyramidal and extrapyramidal system. Cerebellum, Locomotion and maintenance of posture; spinal and body-orienting reflexes, brainstem control, muscle spindle, muscle tone. Hypothalamus and limbic system. Higher functions of the nervous system. Special senses.

**PHS 321  Selected Topic in Neurophysiology**


**BIO 310 Biostatistics**


SECOND SEMESTER
PHS 300 Industrial Training 6 units (C)

400 LEVEL
FIRST SEMESTER

PHS 322 Laboratory Teaching and instrumentation 3 units (R)
Opportunity for students to review the physiological concept of systems taught and understand them so thoroughly as to enable them demonstrate the concept using available equipment to medical or more junior Physiology Students.

PHS 323 Animal Experimentation 3 units (R)
Laboratory animal handling, In vivo and in vitro preparations. Choice of animals and/or isolated tissue. Introduction to laboratory methods and design in physiological experimentation. Biological assay techniques.

PHS 411 Neuroendocrinology 2 units (C)

PHS 412 Nutrition and Metabolism 2 units (R)

PHS 413 Environmental Physiology 2 units (R)
Global warming/Physiologic response, pollution: air, water and noise; Adverse weather conditions: heat stroke, frostbite, Human response to environmental factor- virus, bacteria, etc, Transport stress- motion sickness, sea sickness, weightlessness, jetlag.

PHS 414 Research Methodology and Statistics 2 units (R)
What to expect in introduction of research work, Literature review and literature search, Sampling methods in physiological work, Ethical considerations, Test of probability, statistical analysis and interpretation of results, Discussion of research work, Referencing styles.
PHS 415  Seminar  2 units (R)
Literature review of different areas of physiology presented at seminars.

SECOND SEMESTER
PHS 491  Project Seminar  1 unit (C)
PHS 492  Project  6 units (C)
Independent research finding undertaken by students into selected area of physiology. Students will be required to carry out research on a particular topic and produce a written report at the end of the session. Students will be examined orally on the project undertaken.

PHS493  Comprehensive examination  4 units (C)
Examination on general and specific areas in physiology.

PHS 421  Special Topics  2 units (R)

PHY327  Biophysics  3 units (R)
# LIST OF STAFF

## ACADEMIC STAFF

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<th>QUALIFICATIONS</th>
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<tbody>
<tr>
<td>Prof. M. I. Agba</td>
<td>B.Sc., M.Sc., Ph.D., Dip. Vet. Sc. FBSN,</td>
<td>Professor</td>
<td>FT</td>
</tr>
<tr>
<td>Dr. J. S. Josiah</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Associate Professor</td>
<td>FT</td>
</tr>
<tr>
<td>Dr. K. A. Digban</td>
<td>M.Sc., MPH, Ph.D., FMLSCN</td>
<td>Ag. HOD/ Senior Lecturer</td>
<td>FT</td>
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<tr>
<td>Dr. H. O. Okpala</td>
<td>M.Sc., Ph.D., FMLSCN</td>
<td>Senior Lecturer</td>
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<td>Dr. D. J. Jemikalajah</td>
<td>AMLSCN., M.Sc., Ph.D.,</td>
<td>Senior Lecturer</td>
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<tr>
<td>Dr. O. F. Emelike</td>
<td>M.Sc., Ph.D., FMLSCN</td>
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<td>Dr. B. O. Akinshipe</td>
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<td>Dr. S.C.O Nwangwu</td>
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<td>Dr. Ogundige O. P.</td>
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<tr>
<td>Dr. (Mrs). H. K. Njoeja</td>
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<td>B.Sc., M.Sc.,</td>
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<td>Mr T. Erimeh</td>
<td>BMLS., AMLSCN</td>
<td>Lecturer II</td>
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<tr>
<td>Miss. Imarhiage Ivie</td>
<td>BMLS., AMLSCN</td>
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## LABORATORY STAFF

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<td>Mr. M. Olley</td>
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<td>Principal MLS</td>
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<td>Mr. C. O. Osaiywu</td>
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<tr>
<td>Mr. F. A. Ehiaghe</td>
<td>PGDE, M.Sc., BMLS, AMLSCN</td>
<td>Med. Lab. Scientist I</td>
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<td>Mrs. S. Ikolo</td>
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<td>FT</td>
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<tr>
<td>Mr. B. Adeyemo</td>
<td>SSCE with type writing</td>
<td>Secretary</td>
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Foreword

I welcome you all to our department of Medical Laboratory Science which was established in September, 2005 in the Oba Okunade Sijuwade College of Health Sciences. The department undertakes programmes for Bachelor of Medical Laboratory Science (BMLS) in Medical Microbiology, Chemical Pathology, Histopathology, Haematology and Blood Transfusion Science. This handbook provides detailed information about the department of Medical Laboratory Science in line with the mission of Igbinedion University, Okada. The programmes have been expanded and updated to facilitate easier studying and understanding.

You must endeavour to be familiar with all the rules and regulations of the department and University so as to avoid problems. Please be reminded that the University will confer degree only on those students who are found worthy in character and learning, as such, avoid any misconducts or social vices tantamount to suspension or expulsion from the programme and University.
Thank you.

Dr. K. A. Digban
Ag. Head: Department of Medical Laboratory Science
INTRODUCTION
In line with the mission of the University which is to develop the human mind to be creative, innovative, research oriented, competent in areas of specialization, knowledgeable in entrepreneurship and dedicated to service, the Medical Laboratory Science Department offers courses leading to the award of bachelor of Medical Laboratory Science (BMLS) Honours degree.

Medical Laboratory Science is a promising and dynamic profession that is designed to provide broad bases of fundamental scientific knowledge and its application such that the graduates are well prepared to meet with changing needs of modern scientific knowledge considering their pivotal role in the Health care delivery system. The training exposes students to application of Medical Laboratory Science in key areas such as clinical diagnostic services, food and beverages, pharmaceutical industries, Breweries, utility departments e.g. Water Corporation, academic and research institutions.

The training also exposes students to Basic Medical Sciences and to core areas like Clinical Chemistry, Haematology/Blood Transfusion Science, Medical Microbiology/Parasitology, Histopathology, Immunology/Immuonochemistry, as well as Laboratory Management and Instrumentation. Mode of admission is by UME (5- year program) and by direct entry (4-year program). Students accepted for the BMLS program are expected to register with the Medical Laboratory Science Council of Nigeria (MLSCN) and be indexed as student Members soon after admission into the program. On successful completion of the BMLS programme, induction into the profession and mandatory one year internship preceding NYSC program, graduates are registered as Associate of Medical Laboratory Science Council of Nigeria (AMLSCN) with the professional body, MLSCN, subject to meeting its other requirements.

PHILOSOPHY OF THE PROGRAMME
The Bachelor of Medical Laboratory Science degree is designed to:

a. Highlight the central role that laboratory investigation of components of biological fluids, blood, urine, cerebrospinal fluid, secretions, excretions, tissues or organs, play in the diagnosis, management and prognosis of disease states.

b. Have sufficient management ability to play a leadership role in the training and practice of Medical Laboratory Science.

c. Enable students acquire the required expertise to produce biological and diagnostic reagents as well as fabricate equipment, repair or even modify existing ones and update old techniques or invent new diagnostic procedures.

PROGRAMME OBJECTIVES
1. To uphold the academic standards stipulated by the Igbinedion University, Okada.

2. To organize and offer courses and other related studies to undergraduate students as may be prescribed by the Nigeria University Commission (NUC), Medical Laboratory Science Council of Nigeria (MLSCN) and Senate of the University, leading to the award of the degree of Bachelor of Medical Laboratory Science (BMLS).

3. To assist students in learning to solve problems by exposing them to problem situations and by solving them in research projects.
4. To train and develop undergraduate students to fill the manpower needs of the country in Medical Laboratory Science.

5. To graduate professional Medical Laboratory Scientists capable of providing high quality laboratory services to individuals, families and communities of diverse background and in a variety of social and cultural settings nationally and globally.

6. To produce Medical Laboratory Scientists who satisfy international standards and who can undertake further training towards specialization.

7. To train research scientists who are able to make researches in the various disciplines of Medical Laboratory Science.

8. Contribute to the improvement of Medical Laboratory Science practice by participating in interdisciplinary research, utilizing the research process and publishing research findings in Medical Laboratory Science practice situations.

ADMISSION REQUIREMENTS

(a) Entry into 100 Level
Candidates must also satisfy the minimum University requirements for admission and are therefore to obtain credits in English Language, Chemistry, Biology, Physics and Mathematics in SSCE or its equivalent in not more than two sittings with a relevant pass in the Joint Admission matriculation Examination (JAMB) and in the post University Matriculation Examination (Post-UME).

(b) Entry into 200 Level
(i) Candidates holding three GCE A/L in Biology, Chemistry and Physics plus O/L Credits in five subjects – Mathematics, Physics, Chemistry, Biology and English Language.
(ii) Candidates who transfer from other faculties of the University with relevant prerequisites.
(iii) B.Sc. degree in relevant science disciplines like Zoology, Microbiology, Anatomy, Physiology, Biochemistry, etc; as approved by the Senate.
(iv) HND in relevant fields as approved by the Senate.
(v) Inter and Intra- Senate University transfer in accordance to Igbinedion University admissions.

COURSE DURATION
The bachelor of Medical Laboratory Science degree programme shall run for five (5) years for Joint Admission Matriculation Examination candidates and four (4) years for direct entry candidates.

STUDENT INDEXING WITH MEDICAL LABORATORY SCIENCE COUNCIL OF NIGERIA (MLSCN)
Every student must be indexed by the Medical Laboratory Science Council of Nigeria (MLSCN) within the first SIX weeks of the first semester of 100 level and obtain an index number which shall be used alongside with University matriculation number during professional examinations.
REGISTRATION OF COURSES
At the beginning of the session, the students must register for all the course specified for respective session.

NOTE: The 100 level students will spend their first year in the Faculties of Applied and Natural Sciences. The students will subsequently move along until 300 levels when they will be given special attention in the department.

STRATEGIES OF IMPLEMENTING THE BMLS PROGRAM
Programme Structure
Programme implementation consists of theory and practical with courses organized into units. Practical classes are in the form of compulsory laboratory posting under the supervision of qualified Medical Laboratory Scientists. Departmental courses are prefixed with the letter MLS. Courses will comprise core/compulsory courses, which must be taken and passed, general studies, computer and entrepreneurship are elective courses which are taken to enrich and increase student's total units in line with the university regulation. Students shall be required to register for not less than 15 credits units and not more than 27 units per semester. Permission can however be obtained from senate to carry more credits units in the final year. Each semester is made up of periods or classroom teaching, laboratory teaching and practical. The programme curriculum is both modular and integrated and implemented as such. Students must fulfill the requirements at the lower level before they can proceed to the higher level. Each semester from 300 Level to 500 level is made up of periods of classroom teaching and laboratory posting in the hospital laboratories. All laboratory postings are compulsory and projects are integral components of the programme.

100 Level
This is the preliminary year of the students, who comes in through UME, courses taken are in Natural sciences (physics, chemistry, biology and mathematics) and general studies (GST). Students are to submit photocopies of their credentials and pay for WAEC verification. This is a requirement of the MLSCN for indexing before the end of the semester.

200 Level
Students take courses in Basic Medical Sciences (Anatomy, Physiology and Biochemistry) and in preparation for 300 level, students also take departmental courses: Introduction to Medical Laboratory Science I and II.

300 Level
Students take mainly MLS courses as in the curriculum, in addition to Theory and Practice of Entrepreneurship, Medical Physics and Intermediary metabolism. There is supervised laboratory posting during the semester.

400 Level
Students take courses in advanced MLS courses as in the curriculum. They also go for intensive supervised laboratory posting in readiness for the First Professional Examination.

500 Level
Students take general courses in first semester, these include laboratory posting in the area of specialization, seminar, research methodology, Cytogenetic, Genetics and molecular biology. Courses peculiar to area of specialization are taken in second semester, as well as research project and second professional examination.
EVALUATION OF STUDENTS
Each MLS course taught in the BMLS programme at the University may be evaluated for grading with the use of one or several of the following criteria:

i. Written examinations which include problem solving:
   (a) Essay: Six (6) questions to attempt four (4). Its overall contribution shall be 40% of each course examination.
   (b) Multiple choice questions (MCQ), 40 questions (5 parts) to attempt all. Its overall contribution shall be 30% of each course examination.

ii. Laboratory presentations or demonstrations to the class of exercises/techniques.

iii. Laboratory Reports.

iv. Cases studies/Laboratory logbook.

v. Continuous assessment tests.

No student(s) shall be allowed into the examination venue, if he/she has not fulfilled the mandatory posting.

CONTINUOUS ASSESSMENT
Continuous Assessment (CA) during the Semester shall form part of the end of course grade. Its overall contribution shall be 30% of each course examination.

PERFORMANCE GRADE IN EACH COURSE

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>70% - 100%</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>69% - 69%</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>59% - 59%</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>49% - 49%</td>
<td>2</td>
</tr>
<tr>
<td>E</td>
<td>40% - 44%</td>
<td>1</td>
</tr>
</tbody>
</table>

END OF THE YEAR OVERALL ASSESSMENT
The pass mark for 100, 200 and 300 level students in the department shall be 45%, while 400 and 500 level students pass mark shall be 50%.
A student shall be deemed to have passed his/her examinations if he/she passes in all the compulsory and required courses he/she registered for during the academic year. No 400 or 500 level student is expected to have any carryover course at the end of academic session. Such student shall be made to repeat the class according to Medical Laboratory Science Council of Nigeria rules and regulations.

A SUMMARY OF THE CREDIT LOAD FOR THE PROGRAMME

<table>
<thead>
<tr>
<th>Level</th>
<th>Credit Load</th>
<th>Total Credit Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>39</td>
<td>220</td>
</tr>
<tr>
<td></td>
<td>Chem. Pathology</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>Haem./BTS</td>
<td>220</td>
</tr>
<tr>
<td>OR</td>
<td>Histopathology</td>
<td>220</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ATTENDANCE POLICIES

1. Attendance is compulsory and absence from class and/or laboratories will affect student’s final grade. Missed laboratory work and/or examinations must be completed.
2. Since sample procurement is difficult, laboratory absence are particularly difficult to make up 75% attendance is a prerequisite to sit for exams. Absence from laboratory posting is tantamount to carry over of posting. Students are therefore advised not to miss any laboratory session.
3. Protracted illness (three consecutive days or more) should be reported to the Head of Department promptly.
4. Students shall continue their laboratory posting during holidays and this shall serve as their industrial attachment.
5. Final year students are to take compulsory call-duty in their respective discipline. They are to be attached to Med. Lab. Scientist on Call-duty. This shall be graded as part of the 75% attendance laboratory posting.

REQUIREMENT FOR PROCEEDING IN THE PROGRAMME

A student who obtains a Cumulative Grade Point Average (CGPA) of 1.50 or more at the end of the session will proceed to the next level of programme. A student who obtains CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable the student improve on the CGPA. A student on probation during the session who obtains a CGPA of less than 1.50 during the session MUST withdraw from the program. Any student who has any carryover at the end of 300 and 400 level sessions shall not proceed to the next level.

GRADUATION REQUIREMENTS

Deferred entry requirement: e.g credit pass in English at SSCE or GCE O/L

THERE ARE NO DEFERRED ENTRY REQUIREMENTS

i. Minimum number of credit hours: 221
ii. Minimum number of years of the course: 5 years (UME) and 4 years (DE)
iii. Minimum CGPA 1.50

A Grade Point Average (GPA) shall be calculated for each level of course. The student’s final grade forms the sum of the weighted Grade Point.

Average for each level of the courses is as follows:

<table>
<thead>
<tr>
<th>5 year Degree Programme</th>
<th>4 year Degree Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level 20%</td>
<td>200 level 25%</td>
</tr>
<tr>
<td>200 level 20%</td>
<td>300 level 25%</td>
</tr>
<tr>
<td>300 level 20%</td>
<td>400 level 25%</td>
</tr>
<tr>
<td>400 level 20%</td>
<td>500 level 25%</td>
</tr>
<tr>
<td>500 level 20%</td>
<td></td>
</tr>
</tbody>
</table>

COMPUTATION OF GRADE POINT AVERAGE (GPA)

To compute a grade point average (GPA) for a candidate, his/her total aggregate point for the session will be divided by the total credit load for the session.

N.B.
(a) Core courses are mandatory courses, which all students must take and pass, before they can graduate.
(b) Elective courses are courses, which students must take and pass

**GRADING SYSTEM ON GRADUATION**
The class of degree is determined by the final grade as follows:
- First Class Honours: 4.50-5.00
- Second Class Upper Division: 3.50-4.49
- Second Class Lower Division: 2.40-3.49
- Third Class: 1.50-2.39
- Fail <1.50

**PROFESSIONAL EXAMINATIONS**
Students are required to satisfy examiners in professional examinations to be moderated by external examiners in the various Medical Laboratory Science disciplines which will be observed by a representative of Medical Laboratory Science Council of Nigeria. The examinations shall be in two parts viz:
- First Professional Examinations to be held last September of the fourth year shall consists of two parts: Paper I and II which consists of 50 practical related multiple choice questions (10 from each of the 5 disciplines), practical examination in Medical Microbiology, Parasitology, Haematology, Blood Transfusion Science, Histopathology, Clinical Chemical. Candidate will be required to attempt question in Parasitology, and in any 4 of the other core subjects. Questions shall include triple chase spot questions – 3 hours.
- Viva voci (Oral) examination
  A pass in this examination is a prerequisite for the 500 level.
- Final Professional Examination to be held at the end of 2nd Semester of final graduating year which shall consist of 50 practical related multiple choice questions in areas of specialty, practical and oral examinations in the specialty or discipline of the candidate. Pass mark in both examinations is 50%, i.e C grade point.

Re-sit examinations may be conducted not later than 3 months after the main examination.

**EXAMINATION MISCONDUCT AND SANCTION**
The following sanctions shall apply to cases of examination misconduct as stipulated below:

<table>
<thead>
<tr>
<th>S/N</th>
<th>MISCONDUCT</th>
<th>SANCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Proven cases of fore-knowledge of Examination Questions (Leakage)</td>
<td>Expulsion of all involved.</td>
</tr>
<tr>
<td>2</td>
<td>Coming into Examination Hall with extraneous materials</td>
<td>Rustication for a minimum period of 4 Semester or Expulsion if fore-knowledge of Questions is proven.</td>
</tr>
<tr>
<td>3</td>
<td>Writing on any materials in the Examination Hall, other than the Answer Booklet.</td>
<td>Letter of warning</td>
</tr>
<tr>
<td>4</td>
<td>Non-production of identify card or authorized letter of identification before and during examination</td>
<td>To leave the Examination Hall immediately</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
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</tr>
<tr>
<td>5</td>
<td>Any form of unauthorized communication between and among students during examination</td>
<td>Rustication for a minimum period of one (1) academic session for first offender and explosion from the University for any such subsequent offence by the same students</td>
</tr>
<tr>
<td>6</td>
<td>Impersonation at Examination</td>
<td>Expulsion of all involved</td>
</tr>
<tr>
<td>7</td>
<td>Attempt to destroy or actually destroying materials of proof of cheating</td>
<td>Rustication for 2 semesters plus penalty for the original offence</td>
</tr>
<tr>
<td>8</td>
<td>Refusal to obey invigilator’s instructions such as (iii). Writing after the Examination has been stopped, (iv) Non-compliance with the invigilator’s sitting arrangement</td>
<td>(iii) Letter of Warning (iv) To leave the hall and carryover the course</td>
</tr>
<tr>
<td>9</td>
<td>Refusal to submit Answer scripts (used and unused) at the close of examination</td>
<td>Rustication for a minimum period of two (2) semester.</td>
</tr>
<tr>
<td>10</td>
<td>Smuggling of Question papers and Answer Booklets out of the Hall for help and returning with Answer scripts.</td>
<td>Expulsion</td>
</tr>
<tr>
<td>11</td>
<td>Leaving Examination Hall without permission</td>
<td>To carry over the course and letter of warning</td>
</tr>
<tr>
<td>12</td>
<td>Unruly behaviour in the examination Hall, such as smoking, drinking of liquor, noise etc</td>
<td>Verbal warning by Invigilator. If unruly behaviour persists, to leave the Hall and carry over the course.</td>
</tr>
<tr>
<td>13</td>
<td>Proven cases of physical assault on Invigilator/Attendant</td>
<td>Expulsion</td>
</tr>
<tr>
<td>14</td>
<td>Failure to appear before Misconduct panel</td>
<td>Guilty as charge. Indefinite suspension pending appearance before the panel</td>
</tr>
<tr>
<td>15</td>
<td>Any students with three (3) letters of warning</td>
<td>Rustication for a minimum period of one (1) session</td>
</tr>
<tr>
<td>16</td>
<td>Any other cases of examination malpractice not specified</td>
<td>Punishment as appropriate</td>
</tr>
</tbody>
</table>

**WITHDRAWAL FROM DEPARTMENT**

(A) Students who accumulate 11-21 credits in the session are either to seek inter faculty/department transfer or remain in the department on probation.

(B) Students who fail to accumulate less than 11 credits at the end of the second semester examination will be asked to withdraw from the department.

(C) Any student who has previously transferred from another faculty/department or gone on probation and still fails to obtain 22 credits after the sessional examination shall withdraw from the department.

(D) The Senate (if satisfactory reason are given) may grant a student temporary withdrawal from the school. The student could be allowed to register and take the examination in
the required courses at the next available opportunity provided; he/she does not exceed the maximum number of years required for the degree.

DRESS CODE
MALE: A good pair of trousers (not jeans) with neat shirt, a matching tie and a pair of shoe.
FEMALE: Corporate gown with sleeve or skirt (not jeans) below the knee with sleeved shirt/blouse and a pair of shoes.

Student professional Lapel pin should be worn always on their dresses/shirt. Wearing of Laboratory Coat is compulsory for all clinical postings and practical classes.

COURSE CODE SYSTEM
Course code contains an abbreviated letter code of three (3) letters and three (3) digits. MLS – is a prefix that indicates the department. The first digit represents the level of study. For 100 – 400 levels, the second digit denotes the semester while for 500 level; the second digit denotes specialty area. The third digit denotes the topic/stress area.

COURSE OUTLINE
FIRST SEMESTER

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 111</td>
<td>Physical Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHM 112</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHY 111</td>
<td>Mechanics and Properties of Matter</td>
<td>2</td>
</tr>
<tr>
<td>PHY 112</td>
<td>General Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 113</td>
<td>Thermal Physics</td>
<td>2</td>
</tr>
<tr>
<td>BOT 111</td>
<td>Introduction to Plant Science</td>
<td>2</td>
</tr>
<tr>
<td>ZOO 111</td>
<td>Introductory Zoology</td>
<td>2</td>
</tr>
<tr>
<td>GST 111</td>
<td>Communication in English I</td>
<td>2</td>
</tr>
<tr>
<td>GST 112</td>
<td>Philosophy, Ethics, Logic and Human Existence</td>
<td>2</td>
</tr>
<tr>
<td>CSC 110</td>
<td>Introduction to computer</td>
<td>3</td>
</tr>
<tr>
<td>MTH 111</td>
<td>Algebra And Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>GST 113</td>
<td>Nigerian Peoples &amp; Culture</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

SECOND SEMESTER

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 121</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 122</td>
<td>Chemistry Practicals</td>
<td>2</td>
</tr>
<tr>
<td>CHM 123</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHY 121</td>
<td>Electromagnetism</td>
<td>2</td>
</tr>
<tr>
<td>PHY 122</td>
<td>Modern Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 123</td>
<td>Waves, Vibration &amp; Optics</td>
<td>3</td>
</tr>
<tr>
<td>BOT 121</td>
<td>Plant Structure and Function</td>
<td>2</td>
</tr>
<tr>
<td>ZOO 122</td>
<td>Functional Zoology</td>
<td>2</td>
</tr>
</tbody>
</table>
### 200 Level

#### First Semester

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 211</td>
<td>Introduction to Medical Laboratory Science I</td>
<td>2</td>
</tr>
<tr>
<td>ANT 210</td>
<td>General Anatomy, Gross Anatomy of upper limb</td>
<td>2</td>
</tr>
<tr>
<td>ANT 211</td>
<td>Gross Anatomy of Thorax</td>
<td>2</td>
</tr>
<tr>
<td>ANT 212</td>
<td>General Histology/Cytology</td>
<td>2</td>
</tr>
<tr>
<td>ANT 213</td>
<td>General Embryology</td>
<td>3</td>
</tr>
<tr>
<td>PHS 211</td>
<td>Introductory &amp; General Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PHS 212</td>
<td>Blood and body fluid Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PHS 213</td>
<td>Cardiovascular system</td>
<td>2</td>
</tr>
<tr>
<td>BCH 210</td>
<td>Introductory Biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>GNS 211</td>
<td>History and Philosophy of Science</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL** 21

#### Second Semester

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 222</td>
<td>Introduction to Medical Laboratory Science II</td>
<td>2</td>
</tr>
<tr>
<td>ANT 220</td>
<td>Gross Anatomy of Abdomen, Pelvis and Perineum</td>
<td>3</td>
</tr>
<tr>
<td>ANT 222</td>
<td>Systemic Histology I</td>
<td>3</td>
</tr>
<tr>
<td>ANT 223</td>
<td>Systemic Embryology I</td>
<td>3</td>
</tr>
<tr>
<td>BCH 220</td>
<td>Carbohydrate and Lipid Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>BCH 223</td>
<td>Amino Acid and Protein Metabolism</td>
<td>2</td>
</tr>
<tr>
<td>BCH 225</td>
<td>Protein, Chemistry and Enzymology</td>
<td>2</td>
</tr>
<tr>
<td>PHS 221</td>
<td>Body fluid and Temperature Regulation</td>
<td>2</td>
</tr>
<tr>
<td>PHS 222</td>
<td>Gastrointestinal Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PHS 223</td>
<td>Endocrinology &amp; Reproduction</td>
<td>2</td>
</tr>
<tr>
<td>PHS 224</td>
<td>Respiratory System</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 27

**TOTAL CREDIT LOAD FOR THE SESSION** 48
### 300 Level
#### First Semester

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPS 311</td>
<td>Introduction to Theory &amp; Practice of Entrepreneurship</td>
<td>2</td>
</tr>
<tr>
<td>MLS 311</td>
<td>Medical Laboratory Science Ethics</td>
<td>2</td>
</tr>
<tr>
<td>MLS 312</td>
<td>Introduction to Medical Laboratory Science III</td>
<td>2</td>
</tr>
<tr>
<td>MLS 313</td>
<td>Medical Physics</td>
<td>3</td>
</tr>
<tr>
<td>MLS 314</td>
<td>Basic Clinical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MLS 315</td>
<td>Basic Immunology</td>
<td>2</td>
</tr>
<tr>
<td>MLS 310</td>
<td>Laboratory posting I</td>
<td>3</td>
</tr>
<tr>
<td>BCH 310</td>
<td>Intermediary Metabolism</td>
<td>2</td>
</tr>
</tbody>
</table>

**TOTAL 19**

### 300 Level
#### Second Semester

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 320</td>
<td>Laboratory posting II</td>
<td>3</td>
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<tr>
<td>MLS 321</td>
<td>Introductory Microbiology</td>
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<td>MLS 322</td>
<td>Laboratory Instrumentation &amp; Techniques</td>
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<td>MLS 323</td>
<td>Fundamental Blood Group Serology</td>
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<td>MLS 323</td>
<td>Basic Haematology</td>
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<td>MLS 324</td>
<td>Introductory Pharmacology</td>
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<td>PCO 320</td>
<td>General Pathology (Basic Histopathology)</td>
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<td>MLS 326</td>
<td>Laboratory Organisation &amp; Supply Chain Management</td>
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**TOTAL 21**

**TOTAL CREDIT LOAD FOR THE SESSION 40**

### 400 Level
#### First Semester

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<td>MLS 410</td>
<td>Laboratory posting III</td>
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<tr>
<td>MLS 411</td>
<td>Medical Parasitology &amp; Entomology</td>
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<tr>
<td>MLS 412</td>
<td>Basic Medical Bacteriology &amp; Mycology</td>
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<td>MLS 413</td>
<td>Introduction to Haemoglobin, Haemoglobinopathy &amp; myeloproliferation</td>
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<td>Introduction to Blood Group</td>
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<td>MLS 415</td>
<td>System &amp; Compatibility tests</td>
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<td>Analytical Chemistry</td>
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<td>Introduction to Cytology</td>
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<td>Nucleic Acid Biochemistry &amp;</td>
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<td></td>
<td>Basic Concepts of Molecular Biology</td>
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**400 LEVEL**

**SECOND SEMESTER**

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<td>MLS 421</td>
<td>Biostatistics</td>
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<td>Virology</td>
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<td>MLS 423</td>
<td>Introduction to Histopathology Techniques and Museum</td>
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<td>MLS 424</td>
<td>Biomedical Engineering</td>
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<td>MLS 425</td>
<td>Biotechnology &amp; Bioinformatics</td>
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<td>MLS 426</td>
<td>Counselling skills</td>
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<td>MLS 427</td>
<td>Immunology/Imunochemistry</td>
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TOTAL CREDIT LOAD FOR THE SESSION 41

FIRST PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA

**500 LEVEL**

**CHEMICAL PATHOLOGY (SPECIALITY)**

**FIRST SEMESTER**

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<td>MLS 512</td>
<td>Research Methodology</td>
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<tr>
<td>MLS 531</td>
<td>Carbohydrate, protein and Lipid Metabolism</td>
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<td>MLS 532</td>
<td>Renal, liver, and Neurochemistry</td>
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<td>MLS 533</td>
<td>Clinical Enzymology</td>
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<td>MLS 534</td>
<td>Nutrition and Clinical Vitaminology</td>
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<td>MLS 522</td>
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<td>MLS 535</td>
<td>Drug Monitoring, Toxicology &amp; Inborn Error of</td>
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<td>MLS 536</td>
<td>Clinical &amp; Reproductive Endocrinology</td>
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<td>MLS 537</td>
<td>Techniques in clinical Chemistry</td>
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**TOTAL** 20

**TOTAL CREDIT LOAD FOR THE SESSION** 39

**FINAL PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA**

### 500 LEVEL

**HAEMATOLOGY AND BLOOD TRANSFUSION SCIENCE (SPECIALITY)**

#### FIRST SEMESTER

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<td>MLS 513</td>
<td>Cytogenetics</td>
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<td>MLS 541</td>
<td>Haemopoiesis, Haemoglobin, Haemoglobinopathies &amp; Myeloproliferations</td>
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<td>MLS 542</td>
<td>Blood Group Systems &amp; Compatibility Tests</td>
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<td>MLS 543</td>
<td>Serology &amp; Blood Transfusion Science</td>
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**TOTAL** 19

#### SECOND SEMESTER

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<td>MLS 544</td>
<td>Advanced Haematological Techniques</td>
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<td>Advanced Blood Group</td>
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<td>Serology techniques</td>
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**TOTAL CREDIT LOAD FOR THE SESSION**

### 500 LEVEL

**HISTOPATHOLOGY (SPECIALITY)**

#### FIRST SEMESTER

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<td>MLS 551</td>
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<td>Histochemistry and Histological Techniques</td>
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<td>Embalment and Museum Techniques</td>
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<td>Immunochemistry</td>
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<td>Stains and staining</td>
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**TOTAL CREDIT LOAD FOR THE SESSION**  
**FINAL PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA**

### 500 LEVEL

#### MEDICAL MICROBIOLOGY (SPECIALITY)

### FIRST SEMESTER

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<td>MLS 561</td>
<td>Systemic Bacteriology</td>
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<td>MLS 562</td>
<td>Advanced Entomology</td>
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<td>MLS 563</td>
<td>Public Health Microbiology</td>
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<td>MLS 564</td>
<td>Medical Mycology</td>
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<td>Pharmaceutical Microbiology &amp; Microbial Genetics</td>
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<td>MLS 567</td>
<td>Laboratory Techniques in Microbiology</td>
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**TOTAL CREDIT LOAD FOR THE SESSION 39**  
**FINAL PROFESSIONAL EXAMINATION- PRACTICAL AND VIVA**
100 LEVEL COURSES

BOT 111: INTRODUCTION TO PLANT SCIENCE 2-0-3 (2 CREDITS)
Diversity of living organisms; Life forms, mode of nutrition, size, shape, etc. Elements of Ecology and common features of living organisms; Nomenclature and classification. Plant cell, functions of organelles; Brief survey of viruses, bacteria, PPLO; General survey of plants in the five Kingdoms, highlight their life cycles and evolutionary relationship.

ZOO 111: GENERAL INTRODUCTORY ZOOLOGY 2-0-3 (2 Credits)

PHY 111: MECHANICS AND PROPERTIES OF MATTER 2-0-3 (2 Credits)
Elements of statistics, vectors and scalers, simple vector algebra, linear motion, laws of motion, Kepler's laws; free fall, projectiles, escape velocity, satellites, weightlessness. Simple harmonic motion; motion of rigid bodies, moment of torque, moment of inertia; Work-Energy relations.

PHY 112: GENERAL PHYSICS 2-0-3 (2 credits)

PHY 113: THERMAL PHYSICS 2-0-3 (2 Credits)

CHM 111: PHYSICAL CHEMISTRY I 2-0-3 (2 Credits)

CHM 112: ORGANIC CHEMISTRY I 2-0-3 (3 Credits)
Historical survey of the development and importance of organic chemistry. Nomenclature and classes of organic compounds. Homologous series, functional groups, isolation and purification of organic compounds. Qualitative and quantitative organic chemistry. Resonance and inductive effects. Stereochemistry.
BMS 111: ELEMENTARY MATHEMATICS 2-0-3 (2 Credits)
Elementary set theory, subsets, union, intersection, complement and Venn diagram properties of some binary operations of sets. Real number systems. Simple definitions of integers, rational and irrational numbers. The principle of mathematical induction, real equations, binomial theorem, partial fractions, permutations and combinations, circular measure, trigonometric function of angles of any magnitudes. Addition and factor formulae, complex number, algebra of complex numbers, the Argand diagrams, De Moivre's theorem.

CSC 110: INTRODUCTION TO COMPUTER 2-0-3 (3 Credits)
History of computer, functional components of a computer, characteristics of a computer, problem solving, flow charts, algorithm. Basic computer programming, statement, symbolic names, arrays, subscripts expression and control statements. Introduction to visual basic programming, computer applications.

GST 111: USE OF ENGLISH I 2-0-0 (2 Credits)
Modes and methods of effective communication in English. Use of literacy works to improve communication skills, Language skills. Development of reading, and writing skills. Noting taking and summarizing from oral English and written materials, writing of essays, answers and other assignments. Instruction on lexis, collection, and organization of materials and logical presentation for written assignment.

GST 112: COMMUNICATION IN ENGLISH I 2-1-0 (2 Credits)
Effective communication and writing in English. Language skills, writing of essays answers, comprehension, sentence construction, outlines and paragraphs. Collection and organization of materials and logical presentations, punctuation.

GST 112: LOGIC, PHILOSOPHY AND HUMAN EXISTENCE 2-0-0 (2 Credits)
A brief survey of the main branches of philosophy. Symbolic logic, special symbols in symbolic logic – conjunction, negation, affirmation, disjunction.

GST 113: NIGERIAN PEOPLES AND CULTURE (2 Credits)
Study of Nigerian history, culture and arts in pre-colonial times, Nigerian's perception of his world, culture areas of Nigeria and their characteristics. Evolution of Nigeria as a politic unit, Indigenes/settler phenomenon, concept of trade, economic self reliance, social justice, individual and national development, Norms and values, Negative attitudes and conducts (Cultism and related vices). Re-orientation of moral-environmental problems.

CHM 121: INORGANIC CHEMISTRY 2-0-3 (3 Credits)

CHM 122: CHEMISTRY PRACTICALS 2-0-3 (3 Credits)
Theory and practice of qualitative chemical analysis, acid-base, oxidation-reduction, precipitation and complexometric titrations, gravimetric analysis. Calculations, data analysis and organic analysis for elements in Group II, IIIA, IIIB, IV, chemical analysis etc.

CHM 123: ORGANIC CHEMISTRY 2-0-3 (3 Credits)

**PHY 121: Electromagnetism 2-0-3 (2 credits)**
Electrostatics charge, electric field strength, electric flux, inverse square law, Coulomb's law of force, Gauss' law, simple applicators to electric fields and potentials, potential difference fields due to simple charge distributions; Superposition principle, energy of electric fields, Capacitance; Combination of capacitances, dielectrics, polarization, energy stored in capacitors, charging and discharging of capacitors (Time constant cu R. C. Circuits), Electric dipoles, Electric fields and potentials due to dipoles, Dipoles in electric fields, Work due to dipoles. Stead current, Simple DC Circuit. Electromotive Force, Ohm's law, Resistance, Resistivity, Conductance, conductivity, Current density,, daft velocity, electron mobility, relaxation time combination of resistances, combination of cells. Kirchhoff's laws, Electric power, Measurement of electric quantities, Ammeters, Voltmeters, Potentiometers, Wheatstone bridge, Potential divider. Magnetic effect of current, magnetic fields due to simple electric circuits. Electromagnetic effect and simple applications.

**PHY 122: Modern Physics 2-0-2 (2 credits)**
Atomic nature of matter, Discovery of the electron, Quantization of electricity (Millikan's experiment). Thompson's Cathode rays and the determination of the specific charge. Structure of the atom; Atomic models, Thompson's model, Rutherford's model, Bohr's model. The hydrogen atom, energy levels of the hydrogen atom, ionization potential, atomic spectra. The nucleus-structure of the nucleus, size and binding energy of the nucleus, binding fraction, packing fraction of the nucleus. X-rays- nature and production of X-rays, Properties of X-rays, Characterisitics of X-rays, Bragg's X-rays diffraction, X-absorption (Compton effect, photoelectricity, Pair production). Continuous and line spectra, Moseley's equation. Application of X-rays.
Planck's quantum theory; de Broghes hypothesis, wave particle duality. Radioactivity, natural and artificial radio activities, Radioactive emissions (α, β and γ rays). Radioactive decays (α, β and γ decays). Electron capture. Radiation harzards, Radiations detectors. And applications of radioactivity.

**BOT 121: PLANT STRUCTURE AND FUNCTION 2-0-3 (2 Credits)**
The flowering plant structure and function, study and similarities, and differences in plant features. Plants in action including respiration, photosynthesis, water relations, translocation and mineral nutrition. Plant reproduction, seed production and germination.

**ZOO 121: FUNCTIONAL ZOOLOGY 2-0-1 (2 Credits)**
Embryology; Gametogenesis, fertilization and cleavage as demonstrated by Amphioxus, Genetics; The cell and distribution of genetic material, mitosis, meiosis, inheritance, sex determination and sex linked inheritance. Histology; cells tissues, organ formation and main features. Physiology; functioning of Mammalian skin, muscle/skeleton, alimentary system/nutritional requirements and deficiencies.

**GST 121: USE OF LIBRARY, STUDY SKILLS AND ICT (2 Credits)**
Brief history of library, library and education, University libraries and other types of libraries, Study skills (Reference services). Types of library materials, using library resources including E-learning, E-materials etc. Understanding library catalogues (Cards, OPAC etc) and classification, copy-right and its implication, Data base resources, Bibliography citations and
referencing. Development of modern ICT, Hardware technology, Software technology, Input devices, Storage devices, Output devices, Communication and Internet services, Word-processing skills (Typing etc).

**GST 122: COMMUNICATION IN ENGLISH II (2 Credits)**
Logical presentation of papers, phonetics, instruction on lexis, art of public speaking and oral communication, figure of speech, precise report writing.

**GST 123: COMMUNICATION IN FRENCH (2 Credits)**
Introduction to French, alphabets and numeric for effective communication (written and oral), conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts.

**200 LEVEL COURSE DESCRIPTIONS**

**MLS 211: INTRODUCTION TO MEDICAL LABORATORY SCIENCE I**
2-0-0 (2 Credits)
General introduction to medical laboratory science subjects namely: Clinical Chemistry, Haematology and Blood Transfusion Science, Medical Microbiology, Histopathology and Immunology, Specimen collection, reception and registration. Storage and disposal, Specimen bottle. Safety precaution in pathology laboratories against chemical, biological, electrical materials and radiation hazards. Techniques and principles of chemical sterilization and physical methods. Glassware cleaning, care and maintenance. Breeding of laboratory animals.

**ANT 210: GENERAL ANATOMY AND GROSS ANATOMY OF THE UPPER LIMBS 203 (2 Credits)**
The general descriptive terms and the techniques as used in the study of the human body would be introduced. The normal anatomical position and the directional movement of the body parts would be introduced. The gross anatomy of the upper limbs: pectoral region, Axilla and the Anastomosis, carpal tunnel. Hand, nerve injuries, Osteology and joints of the upper limb, the vascular Anastomosis and lymphatic drainage of the breast and upper limb would be studied.

**ANT 211: GENERAL GROSS ANATOMY OF THORAX 203 (2 Credits)**
Description of the thorax: The sternum and ribs, thoracic vertebrae. Heart and great vessels. Thoracic duct, dissection of the entire thoracic region, Azygos system of vein, intercostals spaces, Mediastinum, lungs bronchopulmonary tree and segments, thoracic, diaphragm, Aorta and respiratory movement. Dissected specimens will be demonstrated to the students.

**ANT 212: GENERAL BASIC HISTOLOGY AND CYTOLOGY 203 (2 Credits)**
Description, structure and the function of the cell general histology and basic tissues of the body. Preparation of tissues for microscopy, is a practical oriented course that is studied along side with the theoretically based lecture.

**ANT 213: GENERAL BASIC EMBRYOLOGY 200 (3 Credits)**
General consideration of the male and female reproductive organs, gametogenesis, fertilization, implantation, cleavage, the morula, the blastocyst formation of the primitive streak, the Bilaminar and trilaminar germ disc. Development of tissues and organ system of the embryo, the chronic and amniotic cavities. Foetal membranes, placental formation and
functions. The molecular regulation in differentiation of tissues and organs and in the establishment and patterning of the body axis. Birth defects, chromosomal and genetic factors. Twins and twin defects. General characteristics of the embryonic and foetal periods.

PHS 211: INTRODUCTION AND GENERAL PHYSIOLOGY 2-0-0 (2 Credits)
Cells physiology, physiochemical principles, body fluids and blood transport, control system. Introduction to ANS, Excitable and contractile cells.

PHS 212: BLOOD AND BODY FLUID 2-0-3 (2 Credits)
Introduction and definition of body fluids and body third compartments. Regulation of body fluid and volumes. Physiological variation of body fluid volumes. Techniques for quantifying various body fluid volumes. Blood: functions of blood and classification of blood cells, Erythropoiesis, Haematology indices. Haemoglobin genotype and blood groups, Immunology and cell defence.

PHS 213: CARDIOVASCULAR SYSTEM 2-0-0 (2 Credits)
Definition and functions of the cardiovascular system, cardiac muscle, cardiac myoelectrophysiology, cardiac cycle, circulation of blood, cardiac output and regulation. Blood pressure, Haemodynamics and microcirculation, pulmonary, Cerebral, Coronary, Splanchnic and muscle circulation. Shock and cardiovascular changes in exercise.

BCH 210: INTRODUCTORY BIOCHEMISTRY 2-0-0 (2 Credits)

ANT 220: GROSS ANATOMY OF THE ABDOMEN, PELVIS AND PERINEUM 2-0-3 (2 Credits)
Abdomen: subdivision of the abdominal region and their applied anatomy, Anterior abdominal wall, inguinal region, posterior abdominal wall, stomach, spleen, liver, gall bladder, pancreas, small and large intestine, celiac trunk, biliary apparatus, intra and supra colic compartment and recesses, appendix, renal and supernal gland, dissection of the entire abdominal region for proper understanding of the entire region. Pelvis and perineum: Pelvic cavity wall and diaphragm. Pelvic visceral like the urinary bladder, uterus, testes, ovary etc. Perineum, boundaries and subdivisions. Perineal pouches, external genitalia, ischiorectal fossas. General dissection of the pelvis and perineum region.

ANT 222: SYSTEMIC HISTOLOGY I 2-0-3 (3 Credits)
The diaphragm, the cardiovascular, respiratory and gastrointestinal systems. Development of the adrenal gland, the liver. The pancreas and the spleen. The urogenital, Musculo-skeletal
and integumentary system. The limbs, the molecular regulation and associated developmental anomalies of the systems.

**MLS 222: INTRODUCTION TO MEDICAL LABORATORY SCIENCES**

2-0-1 (2 Credits)


**PHS 221: RENAL PHYSIOLOGY AND TEMPERATURE REGULATION 2-0-0**

(2 Credits)


**PHS 222: GASTROINTESTINAL PHYSIOLOGY 2-0-3 (3 Credits)**

Definition and functions, Physiologic anatomy and innervations of the GIT, Mastication, Deglutition, Salivary gland, Digestion and food absorption. Movement and stomach emptying, Movements of the GIT, vomiting and defecation, GIT secretions and juices, Liver and general metabolism (BMR).

**PHS 223: ENDOCRINOLOGY AND REPRODUCTION 2-0-0 (2 Credits)**


**PHS 224: RESPIRATORY SYSTEM 2-0-0 (2 Credits)**

BCH 220: CARBOHYDRATE AND LIPID METABOLISM 2-0-3 (3 Credits)

BCH 223: AMINO ACID AND PROTEIN METABOLISM 2-0-3 (3 Credits)

BCH 225: PROTEIN CHEMISTRY AND ENZYMEOLOGY 2-0-3 (3 Credits)

GST 211: HISTORY AND PHILOSOPHY OF SCIENCE
Man-his origin and nature, man and his cosmic environment, scientific methodology, science and technology in the society and service of man, renewable and non-renewable resources-man and his energy resources, environmental effect of chemical plastics, textiles, wastes and other materials, chemical and radiochemical hazards. Introduction to the various areas of science and technology. Element of environmental studies.

300 LEVEL
MLS 310: LABORATORY POSTING I 0-1-6 (3 Credits)
Posting of students to all sections of routine medical laboratories for on the job training under the supervision of qualified medical laboratory scientists for 2 days weekly for the entire semester. Scored log books are kept by each student per posting.

MLS 311: MEDICAL LABORATORY SCIENCE ETHICS 2-0-0 (2 Credits)
History and philosophy of ethics in the practice of Medical Laboratory Science. Relationship between religion and socio-cultural values on medical ethics. Ethical issues involved in
private practice. Relationship between the Medical Laboratory Scientist and other members of the health team. Intra professional auditing, Medical Laboratory Sciences ethics and consultancy services. Elements of informed consent in research. Relationship between proper dressing, personal comportment and patient care- the Psychologist’s view: Medical Laboratory Science ethics as it affects paternity disputes, infertility studies, and sexually transmitted disease etc. Real cases presentation medico-legal aspects of medical laboratory practice.

**MLS 312: INTRODUCTION TO MEDICAL LABORATORY SCIENCE III**
2-0-0 (2 Credits)
Introduction to parasitism, and other animal associations, adaptation to parasitic way of life. How parasites invade their host. The infective agents of parasites. Basic knowledge of structure, classification and life cycle of parasites of medical importance, vectors and intermediate host of parasites. Introduction to arthropods of medical importance. Biology of the mosquito in relation to the transmission of malaria, filariasis and viral infections.

**MLS 313: MEDICAL PHYSICS 2-0-3 (3 Credits)**
Kinematical and mathematical problems – circulation of pulse, blood pressure and volume changes. The heart and blood surface tension effect. Temperature and heat flow/electricity, electrocardiograms, general radiation linear energy transfer and radiation measurement, radiation damage-detection and safety. X-ray generation and application, radioisotopes production, use and disposal.

**MLS 314: BASIC CLINICAL CHEMISTRY 2-0-3 (3 Credits)**

**EPS 311: INTRODUCTION TO THEORY AND PRACTICE OF ENTERPRENEURSHIP 2-0-0 (2 Credits)**
Introduction to entrepreneurship, ways of starting a business, conducting market surveys etc. Legal procedures for starting an entrepreneur and the Law, Financing, Marketing, Record and Record Keeping, Business planning.

**BCH 310: INTERMEDIARY METABOLISM 2-0-0 (2 Credits)**
Integration of metabolism. The provision of metabolic fuels. Metabolic fuels in the fed and starving states. Metabolic interrelationship between adipose tissue, liver, extrahepatic tissues and muscles. The role of hormones in intermediary metabolism. Regulation of metabolism in adipose tissue.
MLS 315:  BASIC IMMUNOLOGY 2-0-0 (2 Credits)

MLS 321:  INTRODUCTION MICROBIOLOGY 2-0-0 (2 Credits)

MLS 322:  LABORATORY INSTRUMENTATION AND TECHNIQUES 3-0-2 (3 Credits)
Instrument aspects of qualitative and quantitative analysis- theory and practice of some common analytical techniques: colorimetry, spectrofluorimetry, flame-photometry, conductometry, polarography etc. Osmometry, nephelometry, turbidimetry, pH measurement by ion specific electrodes- separation techniques including Electrophoresis: paper, cellulose, acetate, Agar gel starch and polyacrylamide gel. Isoelectric focusing, Isophoresis, Chromatography, Ion exchange, Gel filtration, molecular sieves; dialysis, filtration, solvent extraction, Centrifugation – ultracentrifugation, Immuno-electrophoretic techniques, radio immunoassay, competitive protein binding, Isotope dilution techniques, Enzymes Immuno assay, Receptor Assay, Automation, Micro and Ultra Micro Analysis. Practical based on the above topics.

MLS 326:  LABORATORY ORGANIZATION AND SUPPLY CHAIN MANAGEMENT SYSTEM 2-0-0 (2 Credits)
Laboratory Management, planning a medical laboratory including the provision for the reception of patients, selection and storage of chemicals, materials and apparatus. Detailed knowledge of the principles, use and maintenance of common laboratory apparatus and equipment. Ventilation, air conditioning and dust control in the laboratory. Equipment used in special workbench e.g cutting-up benches, media-pouring, etc. Sterilization of air. Laboratory hazards and safety measures to be taken in the use of radioactive and dangerous materials. Emergency treatment for accidents. Laboratory Records, maintenance of records: reception, recording storage, filling and indexing of specimens and result. Organization and operation of a system of quality control. Cataloguing and indexing of laboratory supplies.methods of recording experiments. Health commodities supply chain management, SOPs for management of Medical Laboratory commodities, Logistics Management Information System (LMIS), Product selection, Quantification and Storage of Health Commodities, Supply planning, shipment scheduling, monitoring and supervision of logistic systems.

MLS 323: FUNDAMENTAL BLOOD SEROLOGY 2-0-3 (3 Credits)
specific substance –synthesis, identification method (s) reagents. Practical/Tutorials. ABO and Rhesus grouping method. Antiserum Titration DCT and ICT antibody screening.

**MLS 324: BASIC HAEMATOLOGY 2-0-3 (3 Credits)**

**MLS 325: GENERAL PATHOLOGY (BASIC HISTOPATHOLOGY) 2-0-3 (3 Credits)**

**PCO 320: INTRODUCTORY PHARMACOLOGY 2-0-3 (2 Credits)**

**MLS 320: LABORATORY POSTING II 0-1-6 (3 Credits)**
Posting of students to all sections of routing Medical laboratories for on job training under the supervision of qualified medical laboratory scientist for 2 days per week. Scored logbook records per bench are kept for each student per posting.

**400 LEVELS**

**MLS 411: MEDICAL PARASITOLOGY AND ENTOMOLOGY 2-0-3 (3 Credits)**
Introduction to the parasites. Classification of protozoa (the amoebas, the ciliates, the flagellates), Nematodes (Ascaris, Strongyloides, Trichuris, Guinea worms, Trichinella, Enterobius, etc). Lifecycle and pathogenicity of cestodes (The tapeworms, Larval forms of Cestodes). Life cycle and pathogenicity of the Trematodes (The Schistosome, Fasciola, Paragonimus, etc). Methods of demonstration of parasite in blood, faces, vagina, urine, urethra, pus from lung and liver, skin snips, etc. Mechanisms of their disease production; Epidemiology and control of parasitic diseases. Arthropods of medical importance- the crustaceans, Arachnida, Hexapoda, Myiasis etc. their biology, life cycles and control. Life history as disease vectors various disease of medical importance transmissible by insects. Biology of mosquito in relation to transmission of malaria, filariasis and viral infections etc.
MLS 412: **BASIC MEDICAL BACTERIOLOGY AND MYCOLOGY 2-0-3**
(3 Credits)

MLS 413: **INTRODUCTION TO HAEMOGLOBIN, HAEMOGLOBINOPATHY & MYELOPROLIFERATIONS 2-0-3 (3 Credits)**
Iron metabolism, folate and vitamin B12 metabolism, Nomenclature, classification and investigation of common haemoglobinopathies, haemolytic anemia’s, myeloproliferative disorder, homeostasis and disorder of homeostasis; investigation of bleeding disorders. Bone marrow. Practical classes.

MLS 414: **INTRODUCTION TO THE BLOOD GROUP SYSTEMS & COMPATIBILITY TESTS 2-0-3 (3 Credits)**
Blood groups – other blood groups e.g MNS, Duffy, Kell, Kidd etc. Grouping techniques and antibody screening, clinical significance, serostatus. Antenatal serology – screening and titration (quantitation) compatibility procedures – different methods, advantage and disadvantages, Blood transfusion reactions- causes and types; investigation. Risks attendant in blood transfusion – Diseases, analphylactic, haemolytic and allergic reactions. Screening of Donor blood for diseases. Compatibility procedures – advantages and disadvantages. Practical based on the above topics.

MLS 415: **ANALYTICAL CHEMISTRY 2-0-3 (3 Credits)**

MLS 416: **INTRODUCTION TO CYTOLOGY 2-0-0 (2 Credits)**
Collection, selection and preparation of cytology specimens (Cervical smear, Vaginal smear, Bronchial aspirates, Ascitic fluids and other fluids). Cytology staining techniques, normal, atypical and malignant cells. Cornification index. Maturation index, progesterone/androgen effects.

MLS 410: **LABORATORY POSTING III 0-1-6 (3 Credits)**
Posting of students to all sections of routine medical laboratories for on job training under the supervision of qualified medical laboratory scientists for 2 days per week in the entire semester. Scored logbook records per bench are kept for each student per posting.
MLS 417:  NUCLIEC ACID BIOCHEMISTRY AND BASIC CONCEPTS OF MOLECULAR BIOLOGY 2-0-0 (2 Credits)

MLS 421:  BIOSTATISTICS 2-0-0 (2 Credits)

MLS 422:  VIROLOGY 2-0-3 (3 Credits)

MLS 423:  INTRODUCTION TO HISTOPATHOLOGY TECHNIQUES AND MUSEUM 2-0-3 (3 Credits)

MLS 424:  BOMEDICAL ENGINEERING 2-0-0 (2 Credits)

MLS 425:  BIOTECHNOLOGY AND BIOINFORMATICS 2-0-3 (3 Credits)
MLS 426: COUNSELLING SKILLS 2-0-3 (2 Credits)
Definition of counselling, care and support, types of counselling: pre-test and post-test, prevention, primary or secondary. Crisis management, problem solving, decision making, couple, spiritual and pastoral counselling. Who needs counselling. Prospect/benefits of counselling, constraints in counselling, rewarding, overview of communication/listening skills. Prevention and management of conflicts. Genetic counselling including sickle cell trait in marriage, blood donation campaign, HIV infection etc. Case studies.

MLS 420: LABORATORY POSTING IV 0-1-6 (3 Credits)
2 days weekly for the entire semester. Scored logbooks are kept by each student per posting.

MLS 427: IMMUNOLOGY/IMMUOCHEMISTRY 2-0-0 (3 Credits)

500 LEVEL
GENERAL COURSES FOR ALL THE CANDIDATES
FIRST SEMESTER

MLS 510: LABORATORY POSTING V 0-1-6 (3 Credits)
Each student undergoes on the bench training in the different analytical techniques used in the area of specialization. The students are to participate in the routine operation of the laboratory. Logbooks are kept by each student under the supervision of a qualified medical laboratory scientists.

MLS 511: SEMINAR 0-2-0 (2 Credits)
Students are to carry out intensive literature research and present seminar on selected approved topics to the departmental colloquium. Each presentation will be for about 15 to 20 minutes followed by general discussion. The presentation will be scored by the group of internal assessors appointed by the department.

MLS 512: RESEARCH METHODOLOGY 3-0-0 (3 Credits)

MLS 513: CYTOGENETIC 2-0-0 (2 Credits)

SECOND SEMESTER
MLS 520: LABORATORY POSTING V 0-1-6 (3 Credits)
Each student undergoes on the bench training in the different analytical techniques used in the area of specialization. The students are to participate in the routine operation of the laboratory. Logbooks are kept by each student under the supervision of qualified medical laboratory scientists.

MLS 521: GENETICS AND MOLECULAR BIOLOGY 3-0-0 (3 Credits)

MLS 522: PROJECT 0-0-8 (6 Credits)
A supervised research project on an approved topic to be undertaken by each student for the partial fulfillment of the BMLS degree requirement. Assessment of the project.

CLINICAL CHEMISTRY
MLS 531: CARBOHYDRATE, PROTEIN AND LIPID METABOLISM 2-0-3 (3 Credits)

MLS 532: RENAL, LIVER & NEURO-CHEMISTRY 2-0-3 (3 Credits)
MLS 533: CLINICAL ENZYMOLOGY 2-0-3 (3 Credits)

MLS 534: NUTRITION AND CLINICAL VITAMINOLOGY 2-0-0 (2 Credits)

MLS 535: DRUG MONITORING, TOXICOLOGY AND INBORN ERROR OF METABOLISM 2-0-3 (3 Credits)

MLS 536: CLINICAL AND REPRODUCTIVE ENDOCRINOLOGY 2-0-3 (3 Credits)
Endocrine glands – organization. Cellular communication by endocrine glands. Endocrine receptor binding control of endocrine action. Endocrine glands functions; the hypothalamus, the pituitary, the parathyroid, adrenal cortex, adrenal medulla. The gonads and reproductive endocrinology. Foeto-placental function. Endocrine control of metabolism and endocrine diseases/disorders, water imbalance, insulin action, thyroid hormone and reproduction. Investigation of male and female infertility.

MLS 537: TECHNIQUES IN CLINICAL CHEMISTRY 2-0-3 (3 Credits)
HAEMATOLOGY AND BLOOD TRANSFUSION SCIENCE SPECIALITY

MLS 541: HAEMOPOIESIS, HAEMOGLOBIN, HAEMOGLOBINOPATHIES & MYELOPROLIFERATIONS
2-0-3 (3 Credits)


MLS 542: BLOOD GROUP SYSTEMS AND COMPATIBILITY TESTS
2-0-3 (3 Credits)

ABO and other blood groups – MNS, KELL, Kidd, Duffy, Lewis, etc. Antenatal serology, Hemolytic diseases of the newborn. Type, etiology, antenatal and post natal management. Blood group serology in paternity dispute. Haemolysin titration. Absorption and elution techniques. Indication and complication of blood transfusion. Red cell survival tests – radioisotope and differential agglutination methods. Screening of blood donor for infective agents – HIV, HBV, HCV, malaria, filarial, trypanosomes, syphilis, etc. anonymous result in blood grouping. False positive and false negative result in compatibility testing. Preparation and standardization of AHG.

MLS 543: SEROLOGY AND BLOOD TRANSFUSION SCIENCE 2-0-3
(3 Credits)


MLS 544: ADVANCED HAEMATOLOGICAL TECHNIQUES 2-0-3
(3 Credits)


MLS 545: ADVANCED BLOOD GROUP SEROLOGY TECHNIQUES 2-0-3
(3 Credits)

Techniques for emergency compatibility testing – low ionic sucrose solution spin coomb's albumin special compatibility techniques. Exchange and extracorporeal blood transfusion.
Preparation of enzymes used in BGS. Forensic application of BGS, Two stage Coomb's techniques. Autonalysers for antibodies and antigen detection and identification etc.

**MLS 546: COAGULATION AND FIBRINOLYSIS 2-0-3 (3 Credits)**

**HISTOPATHOLOGY SPECIALITY**

**MLS 551: FUNDAMENTAL HISTOPATHOLOGY 2-0-3 (3 Credits)**

**MLS 552: SYSTEMIC HISTOPATHOLOGY 2-0-3 (3 Credits)**

**MLS 553: HISTOCHEMISTRY AND HISTOLOGICAL TECHNIQUES 2-0-3 (3 Credits)**
MLS 554: MEDICAL CYTOLOGY 2-0-3 (2 Credits)

MLS 555: EMBALMENT SCIENCE AND MUSEUM TECHNIQUES 2-0-3 (2 Credits)
History and science of embalmment. Formalin based embalmment techniques. Other methods of preservation of dead, cryopreservation (history, procedure and applications) and mumification (history, procedure and applications). Different embalmment techniques, importance and application. Factor affecting embalming fluids. Setting up a mortuary/medical museum. Forensic pathology as it applies to post-mortem examination, recording of pathological changes of organs and collection of clinical data during autopsy especially as it relates to drowning, poisoning, strangulation etc. Practical based on the above topics are advised. Dogs/goats can be used for practical exercise.

MLS 556: IMMUNOHISTOCHEMISTRY 2-0-3 (2 Credits)

MLS 557: STAINS AND STAINING TECHNIQUES 2-0-3 (2 Credits)

MEDICAL MICROBIOLOGY
MLS 561: SYSTEMIC BACTERIOLOGY 2-0-3 (3 Credits)
MLS 562: ADVANCED ENTOMOLOGY 2-0-3 (3 Credits)

Special Topics:

MLS 563: PUBLIC HEALTH MICROBIOLOGY 2-0-2 (2 Credits)

MLS 564: MEDICAL MYCOLOGY 203 (3 Credits)
General characteristics of fungi’s diseases, types of mycoses and properties; opportunistic fungi, Diagnosis and chemotherapy, Systemic mycoses (Cryptococcosis, Blastomycoses, Histoplasmosis, Coccidiodomycoses). Opportunistic mycoses (Candidiasis, Phycomycoses, Sporotrichoses, Chromoblastomycosis, etc). Cutaneous mycoses – Dermatophytoes. Superficial mycoses. General properties, Pathogenesis, diagnosis, epidemiology, control and recognition of fungi.

MLS 565: MEDICAL VIROLOGY 2-2-0 (3 Credits)

MLS 566: PHARMACEUTICAL MICROBIOLOGY AND MICROBIAL GENETICS 2-0-3 (3 Credits)

MLS 567: LABORATORY TECHNIQUES IN MICROBIOLOGY 2-0-3 (3 Credits)
Culture media (Different types, compounding from basic constituent and preparation of media). Examination, cultivation and identification of bacteria from different samples: Pleural, CSF, Urine, Sputum, Ascitic fluid. Blood culture, High vaginal swab, wound swabs, ear, eye, nasal and other swabs. Stool bacteriology, Sputum bacteriology, Urine bacteriology.

THE ROLE OF MEDICAL LABORATORY SCIENCE COUNCIL OF NIGERIA

The Medical Laboratory Science Council of Nigeria (MLSCN) is a federal government regulatory agency established to regulate the Practice of Medical Laboratory Science in Nigeria. The council is fully committed to its mission to be a renowned regulatory agency in the strengthening of health laboratory systems and professional practice for quality services through strategic regulations, accreditation and licensing. The council by tradition or convention through the ages, has assumed the responsibility of maintaining and constantly enhancing the standard of medical laboratory service provided to the public by the profession as well as protecting the profession from unwarranted encroachment by charlatans and quacks.

CODE OF CONDUCT IN MEDICAL LABORATORY SCIENCE PRACTICE

a. To exercise professional knowledge and skill with judgment and care for the benefit of the wider general public and in the best interest of the users of the service.
b. To demonstrate the highest standards of conduct, honesty and integrity in personal and professional behaviour.
c. To understand, recognize and work within the limits of professional knowledge, skills and experience.
d. To recognize the beliefs and values of the wider general public, the users of the service and professional colleagues, treating them on a fair and equitable basis.
e. To ensure the confidentiality of patients’ information.
f. To ensure that personal beliefs and values do not prejudice or compromise ones’ ability to carry out ones’ professional roles and duties.
g. To maintain, improve and keep up to date one’s professional knowledge and skills.
h. To aid and support the development of Medical Laboratory Science by education or training of professional colleagues, the users of the service and the wider general public.
i. To promote the study and activity of Medical Laboratory Science by promotion of the values, aims and objectives of the Medical Laboratory Science Council of Nigeria.
To show due respect and gratitude to one’s teachers, maintain friendly relations with colleagues and whenever possible, endeavour to teach students placed under one’s care.

**SOME EQUIPMENT IN MEDICALLABORATORY SCIENCE PRACTICE**

**SOME RECOMMENDED TEXTBOOKS**

13. Anatomy and Physiology by Ross and Wilson, Latest Ed.
35. Roger, H. and Robert M. Medical Laboratory Haematology. Butterworth & CO.

Complied by
Department of Medical Laboratory Science
School of Basic Medical Sciences
College of Health Sciences
Igbinindion University Okada
## Curriculum of School of Clinical Medicine

### OFFICE OF DEAN, SCHOOL OF CLINICAL MEDICINE

<table>
<thead>
<tr>
<th>S/NO</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>RANK</th>
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<tbody>
<tr>
<td>1</td>
<td>Professor Bazuaye G.N.</td>
<td>MB.BS (1993); FMCPath (2002). Cert. Stem Cell Transplant (Basel Switzerland) 2010</td>
<td>Professor, Dean</td>
<td>FT</td>
</tr>
<tr>
<td>2</td>
<td>Dr. A.A. Uduoise</td>
<td>MB.BS; (1992) FWACS (2004)</td>
<td>Lecturer I</td>
<td>FT</td>
</tr>
<tr>
<td>5</td>
<td>Ujah Williams Dele</td>
<td>FSLC. SSCE, Trade Test Cert, Grade I, II&amp;III</td>
<td>Driver</td>
<td>FT</td>
</tr>
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<td>6</td>
<td>Miss. Omale Mary</td>
<td>FSLC</td>
<td>Cleaner</td>
<td>FT</td>
</tr>
<tr>
<td>7</td>
<td>Owie Felix</td>
<td>FSLC</td>
<td>Driver</td>
<td>FT</td>
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### HEADS OF DEPARTMENT

1. Anaesthesia                        Dr. G.O. Iyasere  
2. Community Medicine                 Dr. A Labiran  
3. Medicine                           Prof. V.A Josephs  
4. Obstetrics & Gynaecology            Prof. J.A. Unuigbe  
5. Paediatrics                         Dr. D.O. Osaghae  
6. Surgery                             Prof. L.C. Chiedozi  
7. Pharmacology                        Dr. J.C. Nwanze  
8. Morbid Anatomy                      Dr. F. Nwachokor  
9. Chemical Pathology                  
10. Haematology and Blood Transfusion  Prof. Bazuaye G.N.  
11. Radiology                          Prof. T.T. Marchie  
12. Medical Microbiology               Prof. M.I. Agba  

Department of Anaesthesia

UNDERGRADUATE COURSE IN ANAESTHESIA

OBJECTIVES

The undergraduate course in Anaesthesia is aimed at teaching the students basic principles in Anaesthesia and resuscitation (Life Saving Procedures). This takes into consideration the acute shortage of Anaesthetists in the country and the need for general doctors to be equipped with basic principles in anaesthesia and resuscitation. This makes it possible for doctors working alone in remote areas to be able to cope with simple requirements in anaesthesia and resuscitation. The course also takes into consideration the fact that a good part of modern anaesthesia incorporates basic principles in health care fundamental to the safe practice of medicine. The course is given in the 5th year of training i.e. in the 2nd clinical year (500 level courses) and covers a period of posting of 8 weeks, which the student spends entirely in the department of anaesthesia. While the theoretical background of anaesthesia is taught, greater emphasis is placed on practical teaching to give the students the opportunity to acquire basic and essential skills in anaesthesia and resuscitation.

DETAILS OF DEPARTMENTAL OBJECTIVES:

A. To have a sound knowledge of and enumerate the general principles of OPERATIVE ANAESTHESIA.
B. To have a sound knowledge of and recognize pharmacological action of drugs used in anaesthesia, analgesia and life support.
C. To enumerate the physiology of PAIN and PAIN RELIEF. Anatomical pathways of central and peripheral nerve in relation to pain.
D. To be able to perform some regional and local ANAESTHETIC TECHNIQUES.
E. To be able to give GENERAL ANAESTHETICS FOR MINOR SURGICAL PROCEDURES IN THEATRE AND IN ABNORMAL ENVIRONMENT.
F. Basic training, acquiring knowledge to perform LIFE SAVING PROCEDURES.
   i. To be able to recognize, describe and manage respiration insufficiency and arrest.
   ii. To be able to recognize, describe and manage circulatory insufficiency and cardiac arrest.
   iii. To be able to recognize, describe and manage the unconscious patient.

COURSE DESCRIPTION

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>UNIT</th>
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<tbody>
<tr>
<td>ANAE 501</td>
<td>Outline of course short history of anaesthesia. General Principle of Anaesthesia</td>
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<tr>
<td>ANAE 502</td>
<td>Airway Management Anatomy of Airways Causes, Diagnosis and consequences of Obstruction Methods of securing anfd Maintaining the airways</td>
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<td>ANAE 503</td>
<td>Physics applied to anaesthesia, Storage of gases Principles of anaesthetic machines</td>
<td>1</td>
<td>C</td>
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<tr>
<td>ANAE 504</td>
<td>Diagnosis and management of respiratory insufficiency Clinical features Laboratory investigations Management, Tracheostomy and management</td>
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<td>C</td>
<td>4</td>
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<tr>
<td>ANAE 505</td>
<td>Performance of some local and regional anaesthetic techniques</td>
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<td>4</td>
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<tr>
<td>ANAE 506</td>
<td>Diagnosis and management of circulatory insufficiency Physiology of cardiac output Blood Pressure, venous pressure Factors affecting; Shock</td>
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<tr>
<td>ANAE 507</td>
<td>Performance of General Anaesthesia minor surgical procedure, including relaxation techniques</td>
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<tr>
<td>ANAE 508</td>
<td>The unconscious patient Delayed return of consciousness after anaesthesia – coma states Management of patient Cerebral function monitoring Brain death, diagnosis, investigation The intensive care</td>
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<td>ANAE 509</td>
<td>Trauma and Accident, Disasters Anaesthesia in abnormal environment Emergency anaesthesia</td>
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<td>ANAE 510</td>
<td>Operative Anaesthesia Patient preparation Choice of Anaesthesia Induction and management of anaesthesia Techniques of anaesthesia Effect of anaesthesia on some disease state Obstetric anaesthesia Record keeping</td>
<td>1</td>
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<td>ANAE 511</td>
<td>Pain and Pain relief Anatomy of pain centers and peripheral distribution postoperative pain relief</td>
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<td>C</td>
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<td>ANAE 512</td>
<td>Use and action of common anaesthetic drugs Premedicant drugs General anaesthetic agents: induction, inhalational, maintenance Local anaesthetic drug Drug interaction</td>
<td>2</td>
<td>C</td>
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<td>ANAE 513</td>
<td>Practical demonstration CPR Monitors Ventilators Laboratory investigations in anaesthesia</td>
<td>1</td>
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</table>

**COURSE DESCRIPTION**
1. Anaesthetic techniques: General anaesthesia, inhalational and intravenous methods.
2. Anaesthetic techniques. Principles and uses of anaesthetic equipment and system.
3. Choice of anaesthetic method and technique.
5. Cardio-pulmonary arrest and resuscitation (incl. film show).

PROGRAMME OF CLINICAL TRAINING 500 LEVEL MEDICAL STUDENTS

MONDAY – FRIDAY 8.30 a.m. – 1ST DAY: Registration in Department
Outline of Course
Short history of Anaesthesia
Anaesthetic record booklet.

9-11a.m. – Lecture
11-1p.m. – Theatres (in groups)

STUDENT PERFORMANCE NO REQUIRED

Vein cannulation 5
Intubation 3
Epidural/Spinal 3
General Anaesthesia 5
Regional Anaesthesia 5
Emergencies 5

Assembling a laryngoscope
Checking anaesthetic machine

2 tutorials are given per week and the students are taken on pre-operative ward rounds twice a week.

RECOMMENDED BOOKS
Oduntan S.A. Anaesthesia for medical students.
Famewo C.E. Lecture notes in anaesthesia and intensive care for medical students and practitioners.
Department of Community Medicine

COMMUNITY MEDICINE CURRICULUM FOR THE MBBS PROGRAMME

1. **AIMS AND OBJECTIVES OF THE TEACHING OF COMMUNITY MEDICINE**

At the end of their training in Community Medicine, the doctors should be able to:-

(a) know the concept of Community Medicine and its relevance in Nigeria health care system;

(b) make community diagnosis;

(c) carry out epidemiological studies to identify prevalent health problems in the community and determine the effective means of alleviating them;

(d) know how to plan, organize and evaluate appropriate health programmes;

(e) seek and mobilize resources for health care management;

(f) develop the spirit of team work among the members of the health team;

(g) exhibit the highest principle of medical ethics in the promotion of health.

In addition, the Primary Health Care training aims at enabling the doctor to possess the knowledge, attitude, and skills to:-

(a) diagnose the health problem of a community;

(b) develop a primary Health Care Plan for the defined community;

(c) deliver the component services of Primary Health Care;

(d) provide essential curative care for common conditions at the level of Primary Health Care Clinic in a defined community;

(e) provide immunisation services to a defined community;

(f) provide maternal health services, and family planning to a defined Community;

(g) provide health education to individual and the community;

(h) identify and provide solutions to the problems of environmental sanitation

(i) describe the epidemiology of local endemic diseases and provide appropriate prevention and curative services for defined community;

(j) manage, monitor and evaluate the implementation of Primary Health Care services for a community;

(k) Implement appropriate training programmes for health personnel and members of the community for delivery of Primary Health Care Services.

II. **TRAINING METHODS**

(a) Didactic lectures

(b) Tutorials and Discussions

(c) Seminars

(d) Field visits to places of Public Health importance including health-related Institutions and industries

(e) Clinical practice e.g. Clinics for Endemic Diseases; Sexually Transmitted Diseases, Staff Clinics

(f) Project supervision.
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<th>COURSES</th>
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<tr>
<td><strong>INTRODUCTION TO COMMUNITY MEDICINE – COM 201 (200 LEVEL)</strong></td>
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<tr>
<td>Definition and Sub-Specialties in Community Medicine</td>
<td>Tuesday 11 -1p.m.</td>
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<tr>
<td>The Role of the Community Health Physician</td>
<td>Thursday 11-1p.m.</td>
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<tr>
<td>The Doctors Role in Health Promotion and Protection</td>
<td>Tuesday 11-1p.m.</td>
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<tr>
<td>Behavioural and Non-Behavioural Factors in Health and Disease</td>
<td>Thursday 11-1p.m.</td>
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<tr>
<td>History of Medicine</td>
<td>Tuesday 11-1p.m.</td>
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<tr>
<th>DEMOGRAPHY – COM 202</th>
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<tr>
<td>Demography – Definition Uses</td>
<td>Tuesday 11-1p.m.</td>
</tr>
<tr>
<td>Population Composition – Age, Sex, Occupation, Ethnicity etc</td>
<td>Thursday 11 -1p.m.</td>
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<tr>
<td>Population Dynamics (Fertility, Mortality, Migration, Population Structure, Growth and Projection)</td>
<td>Tuesday 11 -1p.m.</td>
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<tr>
<td>Sources of Population Data; Sources of Health and Vital Statistics, Cancer Registration</td>
<td>Thursday 11 -1p.m.</td>
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<tr>
<td>Demographic Transition; Malthusian Theory of Population</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Census – National and Local</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>World Population and Policy; The National Population Policy</td>
<td>Tuesday 11 - 1p.m.</td>
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<tr>
<td>Interaction Between Medical Action, Population, Health and Population Growth;</td>
<td>Thursday 11-1p.m.</td>
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<tr>
<td>Measurements of Health and Disease; Different Rates and their Uses</td>
<td>Tuesday 11-1p.m.</td>
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<td>Standardisation of Vital Rates</td>
<td>Thursday 11-1p.m.</td>
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<tr>
<td>Introduction to Statistics</td>
<td>Tuesday 11-1p.m.</td>
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<tr>
<td>Types of Data Types of Variables ; Types of Distribution</td>
<td>Thursday 11 -1p.m.</td>
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<tr>
<td>Sources of Data Tools for Data Collection</td>
<td>Tuesday 11 -1 p.m.</td>
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<tr>
<td>Scales of Measurement</td>
<td>Thursday 11-1p.m.</td>
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<tr>
<td>Diagrammatic Presentation of Statistical Data – Histograms, Pie and Bar Charts, Graphs, Pictogram etc.</td>
<td>Tuesday 11 -1p.m.</td>
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<tr>
<td>Numerical Presentation of Statistical Data – Measures of Central Tendency and Location;</td>
<td>Thursday 11-1ip.m.</td>
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<tr>
<td>Measures of Dispersion; Tables; etc</td>
<td>Tuesday 11-1p.m.</td>
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<tr>
<td>Population, Samples and Sampling Techniques</td>
<td>Thursday 11-1p.m.</td>
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<td>Probability Theory</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Estimating Population Values</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>Inferential Statistics; The Standard Normal Curve</td>
<td>Tuesday 11 –1p.m.</td>
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<td>Standard errors; Confidence Intervals</td>
<td>Thursday 11 -1p.m.</td>
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<tr>
<td>Tests of Significance –Z- Test; t-Test; Chi-Square Test</td>
<td>Tuesday 11-1p.m.</td>
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<tr>
<td>Association Correlation and Regression</td>
<td>Thursday 11-1p.m.</td>
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<tr>
<td>Uses of Statistics</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>MEDICAL SOCIOLOGY AND ANTHROPOLOGY – COM 204</td>
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<tr>
<td>Introduction to Medical Sociology</td>
<td>Tuesday 11 -1p.m.</td>
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<tr>
<td>Definition of Health, Disease, Sickness, Illness</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>Socialisation; Role Differentiation</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Beliefs, Values, Norms, Superstitions, Taboos etc.</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>Human Organisations and Systems; Family Systems, Marriage Types and Stability</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Type of Societies; Social Classification</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>Culture and Health – Beneficial, Harmful and Neutral Practices</td>
<td>Tuesday 11 -1p.m.</td>
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<td>Religion and Health</td>
<td>Thursday 11 -1p.m.</td>
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<td>Socio-Economic Status and Health</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Educational Status and Health</td>
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<tr>
<td>Traditional and Modern Health Systems</td>
<td>Tuesday 11 – 1p.m.</td>
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<td>Recreation, Sleep</td>
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<tr>
<td>Health Behaviour and Illness Behaviour</td>
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<td>Doctor/Patient Relationship</td>
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<td>Working Population, Unemployment, Retirement</td>
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<tr>
<td>Dependency; Social Security</td>
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<tr>
<td>Social Deviance; Alcoholism; Drug Abuse; Smoking</td>
<td>Tuesday 11 - 1p.m.</td>
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<th>SOCIAL MEDICINE – COM 205</th>
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<tr>
<td>Introduction to Social Medicine</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>The Underprivileged in the Society</td>
<td>Thursday 11- 1p.m.</td>
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<tr>
<td>Disability, Handicap, Impairment Classification and Causes of Handicaps</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Problems of the Aged</td>
<td>Thursday 11 -1p.m.</td>
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<tr>
<td>Social Welfare Services in Nigeria and Other Countries; Care of the Handicapped:</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Orphanages; Old Peoples Home; Remand Homes; Prisons</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>Voluntary Agencies</td>
<td>Tuesday 11 – 1p.m.</td>
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<th>HUMAN ECOLOGY – COM 301 (300 LEVEL)</th>
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<tr>
<td>Components of the Environment – Biological Physical and Social Ecological Concepts</td>
<td>Tuesday 11 – 1 p.m.</td>
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<tr>
<td>Man’s Interaction with the Environment; Adaptation Process; Balance and Change</td>
<td>Wednesday 11 -1p.m.</td>
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<tr>
<td>Socioeconomic Activities and the Human Environment – Deforestation, Irrigation, Dams, Industrialisation, etc.</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>The Petroleum Industry and the Niger Delta</td>
<td>Tuesday 11 – 1p.m.</td>
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<td>The Ozone Layer Green House Cases</td>
<td>Wednesday 11 – 1p.m.</td>
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<th>ENVIRONMENTAL HEALTH – COM 302</th>
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<tr>
<td>Introduction to Environmental Health</td>
<td>Thursday 11 – 1p.m.</td>
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<tr>
<td>Environmental Sanitation and its Components</td>
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<tr>
<td>Water and Health, Source of Water, Uses of Water</td>
<td>Tuesday 11 – 1p.m.</td>
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<tr>
<td>Examination of Water, Purification of Water, Water Supply</td>
<td>Wednesday 11 – 1pm.</td>
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<tr>
<td>WHO Water Programmes</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td><strong>Food Hygiene: Safe Guarding of Food</strong></td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td><strong>Housing and Health</strong></td>
<td>Wednesday 11 – 1pm.</td>
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<td><strong>Disposal of Wastes- Sewage and Refuse, Disposal of the dead</strong></td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td><strong>Control of Vectors: Other Pests and Animal Reservoirs of infection</strong></td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td><strong>Insecticides of Public Health Importance</strong></td>
<td>Wednesday 11 – 1pm</td>
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<tr>
<td><strong>Air Hygiene and Prevention of Atmospheric pollution</strong></td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td><strong>Legislation and Environmental Health – Public Health Laws</strong></td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td><strong>Accidents – RTA and Home Accidents</strong></td>
<td>Wednesday 11 – 1pm.</td>
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<tr>
<td><strong>Disaster Management; Refugees</strong></td>
<td>Thursday 11 – 1pm.</td>
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| **FAMILY/REPRODUCTIVE HEALTH – COM 303** | **PERIOD** |
| **Introduction to Family Health; Concept, Components and Objectives** | Tuesday 11 – 1pm. |
| **Measurements in family Health** | Wednesday 11 – 1pm. |
| **Health Problems and Health Needs of Mothers and Children** | Thursday 11 – 1pm. |
| **Determinants of Health of Mothers and Children** | Tuesday 11 – 1pm. |
| **Family Health Practice; maternal Health care Services, infant Welfare Clinic** | Wednesday 11 – 1pm. |
| **Organisation and Evaluation of Family Health Programmes** | Thursday 11 – 1pm |
| **Immunisation Programmes** | Tuesday 11 – 1pm. |
| **Population Dynamics and Family Planning** | Wednesday 11 – 1pm. |
| **The “ At Risk “ Concept in MCH** | Thursday 11 – 1pm. |
| **Safe Motherhood Initiative** | Tuesday 11 – 1pm. |
| **Integrated Management of Childhood illnesses (IMCI)** | Wednesday 11 – 1pm. |

| **SCHOOL HEALTH – 304** | **PERIOD** |
| **School Health – Aims and Objectives** | Thursday 11 – 1pm. |
| **The School Health Programmes** | Tuesday 11 – 1pm |

<p>| <strong>NUTRITION AND APPLIED DIETETICS – COM 305</strong> | <strong>PERIOD</strong> |
| <strong>Nutrition and Health</strong> | Wednesday 11 – 1pm. |
| <strong>Classification of food</strong> | Thursday 11 – 1pm. |
| <strong>Nutritional Values of Common Nigerian Foodstuffs</strong> | Tuesday 11 – 1pm. |
| <strong>Culture and Nutrition; Beliefs and Taboos</strong> | Wednesday 11 – 1pm. |
| <strong>Infection and Nutrition</strong> | Thursday 11 – 1pm. |
| <strong>Breastfeeding</strong> | Tuesday 11 – 1pm. |
| <strong>Weaning Practices</strong> | Wednesday 11 – 1pm. |
| <strong>Food Policy</strong> | Thursday 11 – 1pm. |
| <strong>The National Breast Feeding Policy</strong> | Tuesday 11 – 1pm. |
| <strong>Food Hygiene and Toxicology</strong> | Wednesday 11 – 1pm. |
| <strong>Nutrition Education</strong> | Thursday 11 – 1pm. |
| <strong>Applied Dietetics I – Diet in the Aetiology and Management of Diseases (Kwashiorkor, Marasmus, Vitamin Deficiencies, Mineral Deficiencies, Obesity, Hypervitaminoses, etc)</strong> | Tuesday 11 – 1pm. |
| <strong>Applied Dietetics II – Diet in the aetiology and management of Diseases,(Diabetes Essential Hypertension, Coronary Heart</strong> | Wednesday 11 – 1pm. |</p>
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<th>HEALTH EDUCATION – 401</th>
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<tr>
<td>Health Education Principles; Methods and Strategies</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Health Education in the Control of Communicable and Non-Communicable diseases</td>
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<td>Introduction to Occupational health, Aims and Objectives</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Occupational Health, Hazards and their Control</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>The Environment of Working Places</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Occupational health Services</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Fate of Inhaled Aerosol</td>
<td>Tuesday 11 – 1pm.</td>
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<td>Pneumoconiosis</td>
<td>Thursday 11 – 1pm.</td>
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<td>Hazards of Radiation</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Hazards of Various Occupations – Petroleum, Butchers, Bottling, Executives, Agriculture Occupational Cancers</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Occupational Cancers</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Environmental &amp; biological Monitoring</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Industrial Medical Examination</td>
<td>Tuesday 11 – 1pm.</td>
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<td>Industrial Health Notification, Notifiable Diseases</td>
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<td>Industrial Legislation – Factory Act, Workman’s Compensation Act</td>
<td>Tuesday 11 – 1pm.</td>
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<td>Industrial Rehabilitation</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>National and Internal Health Regulations Relating to Occupational Health</td>
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<th>PRINCIPLES OF EPIDEMIOLOGY AND DISEASE CONTROL – COM 403</th>
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<tr>
<td>Epidemiology: Definition, History</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Disease Distribution, Disease Determinants: Biological, Behavioural, Social, etc</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Infective Agents: Reservoir of Infection</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Transmission of Communicable Diseases</td>
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<tr>
<td>Host Factors</td>
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<tr>
<td>Risk Factors in Epidemiology of Communicable and Non-Communicable Diseases</td>
<td>Thursday 11- 1pm.</td>
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<tr>
<td>Epidemiological Methods: Epidemiological Tools – Rates (Crude and Specific), Ratios, Percentages, etc</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Epidemiological Methods: Epidemiological Studies</td>
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<tr>
<td>Health Management Information System: Disease Surveillance and Notification</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Screening and Screening Tests</td>
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<tr>
<td>Uses of Epidemiology</td>
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<td>Principles of disease Control</td>
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<td>Levels of Prevention</td>
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<td>Epidemiological Transition</td>
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<td>EPIDEMIOLOGY AND CONTROL OF COMMUNICABLE DISEASES – COM 404</td>
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<tr>
<td>Epid and control of communicable Diseases According to their Routes of Transmission</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Viral Infections (Poliomyelitis, HIV/AIDS, Viral Hepatitis A-G, Yellow Fever, Chickenpox, Lassa Fever, Ebola, Exotic Diseases, Rabies, Measles, Rubella, Mumps, Viral RTIs)</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Bacterial Infections (Tb, Leprosy, Enteric, Bacillary Dysentery, Cholera, Bacterial Food Poisoning, Tetanus, Bacterial Pneumonia, Meningococcal, Infections, Rheumatic Fever Pertussis, Diphtheria, Plague, Anthrax, Chlamydial Infections)</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Protozoal Infections (Malaria, Amoebiasis, Giardiasis, Trypanosomiasis)</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Fungal Infections (Superficial Fungal Infections, Candidiasis)</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Helminthic Infections (Ascariasis, Trichuriasis, Enterobais, Visceral, Larva Migrans, Cutaneous Larva Migrans, Dracontiasis, Taeniasis, Taenioasis, Hydatid Disease, Fascioliasis, Hookworm, Schistosomiasis, Strogyloidiasis, Bancroftian and Malaysian Filariasis, Loaiasis, Onchocerciasis)</td>
<td>Thursday 11- 1pm.</td>
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<tr>
<td>Epid and Control of Arthropod Infections (Scabies, Lice, Ticks, Mites)</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Special Group of Communicable Diseases – STIs, Zoonoses, Diarrhoeal Diseases, Emerging and Re-Emerging Infectious Diseases, Hospital Infections</td>
<td>Thursday 11 – 1pm.</td>
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<tr>
<td>Control Programmes for Communicable Diseases in Nigeria</td>
<td>Tuesday 11 – 1pm.</td>
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<th>EPIDEMIOLOGY AND CONTROL OF NON-COMMUNICABLE DISEASES – COM 405</th>
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<td>Epid and Control of Genetic and Congenital Diseases – Sickle Cell Disease, Down’s Syndrome</td>
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<td>Epid and Control of Juvenile Delinquency</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Epid and Control of Asthma and Peptic Ulcer</td>
<td>Thursday 11- 1pm.</td>
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<tr>
<td>Epidemiology and Control of Diabetes (DM, DI), Hypertension, Sickle Cell Disease, Coronary Heart Disease, G6PD Deficiency, Ca Breast, Ca Cervix, Ca Prostate</td>
<td>Tuesday 11 – 1pm.</td>
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<tr>
<td>Control Programmes for Non-Communicable Diseases in Nigeria</td>
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<td>Planning a Research</td>
<td>Tuesday 1 – 3pm.</td>
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<td>Ethical Issues in Research</td>
<td>Wednesday 1- 3pm.</td>
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<tr>
<td>Study Designs in medicine and Public Health; Clinical Trials</td>
<td>Wednesday 1 – 3 pm.</td>
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<td>Choice of Topic</td>
<td>Tuesday 1 – 3pm.</td>
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<tr>
<td>Introduction (Problem Definition, Objectives)</td>
<td>Wednesday 1 – 3pm.</td>
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<td>Course</td>
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<tr>
<td>Literature Search/Literature review</td>
<td>Tuesday 1 – 3pm.</td>
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<tr>
<td>Materials and Methods; Questionnaire Design</td>
<td>Wednesday 1 – 3pm.</td>
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<td>Sample Size Determination/Calculation</td>
<td>Tuesday 1 – 3pm.</td>
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<tr>
<td>Data Collection/Management</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<td>Presentation of Results (Data Presentation, Analysis etc)</td>
<td>Thursday 1 – 3pm.</td>
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<tr>
<td>Discussion, Conclusion and Recommendations</td>
<td>Wednesday 1 – 3pm.</td>
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<td>References</td>
<td>Thursday 1 – 3pm</td>
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<td>Project Write – Up</td>
<td>Wednesday 1 – 3pm</td>
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<td>INTERNATIONAL HEALTH – COM 502</td>
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<tr>
<td>History of International Health</td>
<td>Tuesday 1 – 3pm.</td>
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<tr>
<td>International Health organisations/Agencies, e.g. WHO, UNICEF, UNFPA, FHI etc</td>
<td>Wednesday 1 – 3pm.</td>
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<td>Port Health</td>
<td>Thursday 1 – 3pm</td>
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<td>International Notification of Diseases</td>
<td>Wednesday 1 – 3pm.</td>
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<td>International Health Regulations</td>
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<td>INTRODUCTION TO HEALTH PLANNING AND MANAGEMENT – COM 503</td>
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<tr>
<td>Concepts: Principles and Functions of Management</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<td>Health Services Management – Definition, History, Elements</td>
<td>Thursday 1 – 3pm.</td>
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<tr>
<td>Principles, Scope and Nature of Health Sciences (Levels of Health Care)</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<td>Organization of Health Services in Nigeria (Federal, State and LGAs)</td>
<td>Thursday 1 – 3pm.</td>
</tr>
<tr>
<td>Comparative Analysis of Health Care Systems in Different Countries</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<td>Planning of Health Services (Cybernetic Cycle). Evaluation of Health Services</td>
<td>Thursday 1 – 3pm.</td>
</tr>
<tr>
<td>National Health Policy</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<td>Management of Human, Material and Financial Resources.</td>
<td>Thursday 1 – 3pm.</td>
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<tr>
<td>The Health Team</td>
<td>Wednesday 1 – 3pm.</td>
</tr>
<tr>
<td>Health Economics</td>
<td>Thursday 1 – 3pm</td>
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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MEDICAL ETHICS – 504</td>
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<tr>
<td>History and Evaluation of Medical Ethics</td>
<td>Wednesday 1 – 3pm.</td>
</tr>
<tr>
<td>International Code of Medical Ethics</td>
<td>Thursday 1 – 3pm.</td>
</tr>
<tr>
<td>Duties of Doctors</td>
<td>Wednesday 1 – 3pm.</td>
</tr>
<tr>
<td>The Medical and Dental Council of Nigeria</td>
<td>Thursday 1 – 3pm.</td>
</tr>
<tr>
<td>Professional Negligence/Responsibility/Confidentiality/Misconduct</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<td>Ethics of Medical Research</td>
<td>Thursday 1 – 3pm.</td>
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<tr>
<td>The Doctor and the Law Judicial, Coroner’s Court</td>
<td>Wednesday 1 – 3pm.</td>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PRIMARY HEALTH CARE – COM 601</td>
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<tr>
<td>Definition, History and Elements of Primary Health Care (PHC)</td>
<td>Thursday 4 – 6pm.</td>
</tr>
<tr>
<td>Strategies for the Implementation of PHC</td>
<td>Tuesday 4 – 6pm.</td>
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<td>Topic</td>
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<tr>
<td>Basic Health Services Scheme and PHC Institutions</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>The Medical Officer of Health</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Vaccines, Types; the Cold Chain</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>The National Programme on Immunization; Mass Immunization Programmes</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>The Bamako Initiative</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Referral System in health Care Delivery</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td><strong>PRINCIPLES OF PRIMARY HEALTH CARE</strong></td>
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<tr>
<td>Equitable Distribution</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Integration of Services</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Appropriate Technology</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Community Participation</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Intersectoral Collaboration</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td><strong>COMMUNITY DIAGNOSIS</strong></td>
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<tr>
<td>The Structure and Functioning of Communities</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Methods in Practical Epidemiology</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>The Conduct of Demographic and Morbidity Surveys in a Defined Community</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Methods of Informal Data Collection</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Health Care Alternatives at the Community Level</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td><strong>HEALTH MANAGEMENT IN PHC</strong></td>
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<tr>
<td>Identifying and Describing the Health Needs and problems of A Defined Community</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Establishing Health Priorities for A Defined Community</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Setting Goals, Objectives and targets for PHC Services for A Defined Community Formulating A PHC Plan</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Drawing up a PHC Budget, Budgeting and Accounts</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Organisational Structure of PHC</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Integration of Services for PHC</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Management of Staff, Transport, Drugs, Equipment and Supplies in PHC</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Basic Operations Analysis Techniques for Monitoring PHC Services</td>
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<td>Staff and Service Performance</td>
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<tr>
<td>Work Sampling</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Patient Follow-Up</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Task Analysis</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Treatment Audit</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Assessment of PHC Service Coverage with Particular Reference to Availability</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Accessibility and Acceptability</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Effectiveness Efficiency and Equity in PHC Service Delivery</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td><strong>TRAINING</strong></td>
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<tr>
<td>Principles of Curriculum Development</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Setting Instructional Objectives</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Drawing Up Lesson Plans</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Appropriate Teaching Methods</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Assessment of Performance</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Organising Antenatal Care for Maximum Coverage of the Community</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td><strong>HEALTH EDUCATION</strong></td>
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<tr>
<td>Identification of Learning Needs</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Planning Health Education for Individual Groups and Communities</td>
<td>Thursday 4 – 6 pm.</td>
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<tr>
<td>The Principles of Communication</td>
<td>Tuesday 4 – pm.</td>
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<tr>
<td>Selection and Production of Appropriate Audiovisual Aids</td>
<td>Wednesday 4 – 6 pm.</td>
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<thead>
<tr>
<th><strong>ENVIRONMENTAL SANITATION</strong></th>
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<tbody>
<tr>
<td>Identification of An Appropriate Water Supply for A Defined Community</td>
<td>Thursday 4 – 6 pm.</td>
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<tr>
<td>Identification of An Appropriate Method of Sanitation for A Defined Community</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<td>Promoting Self-Help Projects at the Community Level</td>
<td>Tuesday 4 – 6 pm.</td>
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<thead>
<tr>
<th><strong>LOCALLY ENDEMIC DISEASES</strong></th>
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<tbody>
<tr>
<td>The Epidemiology of Locally Endemic Diseases</td>
<td>Wednesday 4 – 6pm.</td>
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<tr>
<td>Appropriate Management and Prevention of Locally Endemic Diseases at the PHC Level</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<th><strong>ESSENTIAL DRUGS</strong></th>
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<tr>
<td>The Essential Drugs Approach</td>
<td>Tuesday 4 - 6pm.</td>
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<tr>
<td>The Essential Drugs List for PHC in Nigeria</td>
<td>Wednesday 4 - 6pm.</td>
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<tr>
<td>Estimating the Essential Drug Need of a Defined Community</td>
<td>Thursday 4 – 6pm.</td>
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<tr>
<td>Administering An Essential Drugs Policy in PHC Services for A Defined Community</td>
<td>Tuesday 4 – 6pm.</td>
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<tr>
<th><strong>PROJECT – COM 602</strong></th>
<th>PERIOD</th>
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<tr>
<td>During this course, students will carry out studies based on empirical field research. They will thus be exposed to practical research methods such as the design of medical and public health medicine studies, questionnaire design, data collection, collation, analysis interpretation and reporting.</td>
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<thead>
<tr>
<th><strong>COMMUNITY HEALTH POSTING – COM 603 URBAN POSTING (PLACES VISITED)</strong></th>
<th>PERIOD</th>
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<tbody>
<tr>
<td>This consists of lectures and guided visits to various Public Health programme sites, and survey, including the following.</td>
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<tr>
<td>1. Environmental Health Services including Visits to Water Treatment Works, Sewage Treatment Plants, Markets and Other Food Processing Factories and Abattoirs, Refuse Disposal Systems etc.</td>
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<tr>
<td>2. Community Welfare Services, Remand Homes, Orphanage Homes, Old People’s Homes.</td>
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<td>3. Schools/Homes for Handicapped Children, Prisons etc.</td>
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<tr>
<td>4. Public Health Departments: To Familiarise Them with the Activities of the Department.</td>
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<tr>
<td>5. Maternal and Child Health Services</td>
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<tr>
<td>6. Public Health Laboratories (including the Testing of Water, etc.)</td>
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<tr>
<td>7. Communicable Diseases: Tuberculosis Clinics/Wards, the CSSD</td>
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### RURAL POSTING

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<thead>
<tr>
<th>RURAL POSTING</th>
<th>PERIOD</th>
<th>LECTURERS</th>
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<tbody>
<tr>
<td>This involves residence in rural communities to allow for practical experience in at least the following</td>
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<td>All staff</td>
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<tr>
<td>1. Community entry and advocacy</td>
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<tr>
<td>2. Environmental Health</td>
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<tr>
<td>3. Health Education</td>
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<td>4. Family Health</td>
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<td>5. Curative Services</td>
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<tr>
<td>6. Control of common communicable diseases</td>
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<tr>
<td>7. Promotion of relevant data and evaluation of programmes</td>
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<tr>
<td>8. Promotion of nutrition</td>
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<tr>
<td>9. Home visiting</td>
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<tr>
<td>10. Training and supervision of auxiliaries and other health professionals.</td>
<td>= do =</td>
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<tr>
<td>11. Surveys As Designed By the Department</td>
<td>= do =</td>
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**Department of Chemical Pathology**

**INTRODUCTION**

The department of Chemical Pathology in the University formally came into existence in 2001/2002 session as an independent and autonomous department within the College of Health Sciences and as an integral part of the School of Clinical Medicine. Chemical Pathology is one of the five independent departments created in the Sciences of Pathology complex.
AIMS AND OBJECTIVES

The aims and objectives of the course are:

1. To enable medical students and other students in CHS acquire theoretical and practical knowledge and skills in the application and practice of chemical pathology in clinical medicine.

2. To provide a course of programmes which enables students to recognize and describe the biochemical derangements in disease associated with abnormalities in metabolism of body constituents.

3. To enable students to understand the principles of laboratory investigations and interpretation of results of biochemical investigations in order to clarify or establish diagnosis.

4. To provide diagnostic laboratory services to the Igbinedion University Teaching Hospital (IUTH) for patients care.

SYLLABUS: COURSE CODES: CPY 301, CPY 401 & CPY 403

FIRST SEMESTER - CPY 301

Introduction to Laboratory Medicine/Chemical Pathology
   a) Meaning and scope of chemical Pathology
   b) Collection and preservation of samples for biochemical tests
   c) The concept of normal or reference values
   d) Units of expressing results. Interpretation of results
   e) The use of the Laboratory in clinical patient care.

Normal renal physiology, pathophysiology of renal diseases
   f) Glomerulonephritis, Nephrotic syndrome, Fanconi syndrome
   g) Renal function tests in clinical practice
   h) Renal function tests in clinical practice
   i) The value of chemical urinalysis in clinical medicine

Fluid and electrolyte balance in health and disease
Acid-base homeostasis and its disorders in diseased conditions
Principles of biochemical genetics and inborn errors of metabolism, Introduction to medical genetics, Chromosomes and DNA replication, Regulation of Gene Expression, Cloning and Sequencing of DNA, Molecular diagnostics.
Inborn errors of Amino acid metabolism
   a) Alkaptonuria, PKU (Phenylketonuria), Albinism
   b) Cystinuria, Hartnup’s disease, Maple syrup urine disease.

Inborn errors of Carbohydrate metabolism
   a) Galactosaemia, Fructosuria, Glycogen storage diseases

SECOND SEMESTER - CPY 401

Haem biosynthesis
The porphyries and their classification

Chemical Pathology of Nutrition to include vitamins, minerals, trace elements requirements
Protein and protein-calorie malnutrition

Haematological Chemistry – iron metabolism, Folate and Vitamin B12 metabolism to highlight their association with haematological disorders

Purine metabolism and Gout

Chemical Pathology of the Gastrointestinal Function and its disorders to include the malabsorption syndrome.

Plasma Proteins and paraproteinemias.

Lipids and lipoprotein metabolism

Clinical enzymology to include diagnostic enzymology in hepatic, cardiac, muscular and bone disorders.

Bilirubin metabolism and Jaundice. Liver function tests to assess hepatic function.

Hypoglycaemic and hyperglycaemic syndromes. Diabetes Mellitus, its diagnosis, management and control.

Introduction to Clinical Endocrinology, current concepts of mechanism of hormonal action at the cellular level.

**THIRD SEMESTER – CPY 403**

Calcium, Phosphorous, Magnesium metabolism in health and disease.
Hypothalamic and Pituitary hormones in health and disease.
Adrenocortical hormones and their disorders in disease
Laboratory investigation of the hypothalamic-pituitary adrenal axis.
Adrenal medulla and its hormones: Phaeochromocytoma, neuroblastoma.

Congenital adrenal hyperplasia
Thyroid function – Normal and Pathological functions. Thyroid function tests.
Gonadal endocrinology (male and female)

The APUD system

Biochemical examination of CSF.

Biochemistry of malignancy – tumour markers

Total parenteral nutrition and its laboratory monitoring

Radioisotopes in Laboratory Medicine
2\textsuperscript{ND} AND 3\textsuperscript{RD} SEMESTERS

PRACTICALS/DEMONSTRATIONS/POSTING IN CHEMICAL PATHOLOGY LABORATORIES

Specimen collection and preservation of urine, stool and blood specimens. Containers for specimen collection, elementary biostatistics and data processing. Quality control in laboratories. Theory of chemical analysis involving qualitative and quantitative analysis of normal and abnormal constituents of blood, urine, CSF and stool e.g. Measurement/Detection of protein and reducing substances in urine. Proteins and glucose in plasma. Performing the oral glucose tolerance tests (OGTT) and plotting various curves in disease states.

Detection of Bilirubin and metabolites in urine

Detection of Ketone bodies and salicylates in urine.

Spectroscopy of haemoglobin and derivatives in blood and urine.

Chromatographic techniques for separation and identification of sugars and amino acids in urine specimens.

Zone electrophoresis of serum proteins as analytical tool and in clinical diagnosis of abnormal protein metabolism.

Determination of sodium and potassium estimation by emission flame photometry

Interpretation of tests results, Seminars; case report presentation.

CHEMICAL PATHOLOGY LECTURE SCHEDULE 400L

<table>
<thead>
<tr>
<th>TIME</th>
<th>CODE</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>9-11am</td>
<td>CPY 301</td>
<td>Introduction to Chemical Pathology: meaning &amp; scope of the discipline. Relationship to other branches of pathology.</td>
</tr>
<tr>
<td>“</td>
<td>“</td>
<td>Collection, preservation of specimens for investigations i.e. whole blood (serum plasma), urine &amp; stool. Exudates and transudates – differences.</td>
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<tr>
<td>9-11am</td>
<td>“</td>
<td>Types of specimen bottles and containers in use in</td>
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<td>Time</td>
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<td>9-11am</td>
<td>“</td>
<td>Units of measurement of concentration or activity of biological systems – Traditional and S.I. units</td>
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<td>9-11am</td>
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<td>The concept of normal or reference values. Establishing normal values in a population and factors</td>
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<td>9-11am</td>
<td>“</td>
<td>The use of the laboratory in clinical care of patients; interpretation of test results of investigations for clinical use.</td>
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<td>9-11am</td>
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<td>Laboratory analytical quality control methods; standard deviation, mean, coefficient of variation (C.V) sensitivity, specificity precision, charts etc.</td>
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<td>9-11am</td>
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<td>Diagnostic quality control assessment of laboratory tests i.e. specificity, sensitivity and predictive values of diagnostic tests</td>
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<td>9-11am</td>
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<td>Renal function tests (1) Glomerular – clearance concept and clearance tests in clinical use – Protein clearance test in in nephritic syndrome; and selective &amp; unselective proteinuria</td>
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<tr>
<td>11-1pm</td>
<td>CPY 401</td>
<td>Fluid and electrolyte balance in health Disorders of fluid &amp; electrolyte balance Disorders of fluid &amp; electrolyte balance</td>
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<td>3-5pm</td>
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<td>11-1pm</td>
<td>“</td>
<td>Acid-base homeostasis I Disorders of acid-base homeostasis - (metabolic) II Disorders of acid-base homeostasis - (Respiratory) III Laboratory assessment of H+ disturbance (IV)</td>
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<td>11-1pm</td>
<td>“</td>
<td>Principles of biochemical genetics and inborn errors of metabolism</td>
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<tr>
<td>11-1pm</td>
<td>Introduction to medical genetics, Chromosome and DNA replication. Regulation of gene expression. Cloning &amp; sequencing DNA</td>
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<td>11-1pm</td>
<td>Inborn errors of Aminoacid metabolism</td>
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<td>11-1pm</td>
<td>(i) Alkaptonuria (ii) Phenylketonuria (PKU); (iii) Albinism (iv) Cystinuria (v) Hartnup’s disease (vi) maple syrup urine disease</td>
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<td>3-5pm</td>
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<tr>
<td>11-1pm</td>
<td>IEM of carbohydrate metabolism to include the clinical and biochemical features:</td>
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<td>2-3pm</td>
<td>(i) Galactosaemia (ii) Fructosuria (essential and Hereditary fructose intolerance (iii) Pentosuria (iv) Glycogen storage diseases (Types I-vii)</td>
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<tr>
<td>11-1pm</td>
<td>Continuous Assessment Test I</td>
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<td>2-5pm</td>
<td>PRACTICALS</td>
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<tr>
<td>11-1pm</td>
<td>CPY 402</td>
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<tr>
<td>2-3pm</td>
<td>Haem biosynthesis</td>
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<tr>
<td>11-1pm</td>
<td>The porphyrias: Their biochemical and Clinical classifications</td>
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<td>2-5pm</td>
<td>PRACTICALS</td>
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<tr>
<td>11-1pm</td>
<td>Hypoglycaemia – causes and investigations</td>
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<td>3-5pm</td>
<td>PRACTICALS</td>
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<td>11-1pm</td>
<td>Hyperglycaemia – causes and investigations</td>
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<td>2-3pm</td>
<td>Diabetes mellitus, diagnosis, management and control</td>
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<td>11-1pm</td>
<td>Oral glucose tolerance Test</td>
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<td>3-5pm</td>
<td>Patterns of curves and disease conditions</td>
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<td>11-1pm</td>
<td>PRACTICALS</td>
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<tr>
<td>11-1pm</td>
<td>Bilirubin metabolism</td>
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<td>2-3pm</td>
<td>Jaundice and its classification</td>
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<td>11-1pm</td>
<td>Normal Hepatic physiology</td>
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<td>3-5pm</td>
<td>Liver function and its disorders</td>
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<td>11-1pm</td>
<td>Complete Assessment Test II</td>
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<td>3-5pm</td>
<td>PRACTICALS</td>
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<tr>
<td>1-3pm</td>
<td>Clinical enzymology – Introductory</td>
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<tr>
<td>1-3pm</td>
<td>Diagnostic enzymology in hepatic disease</td>
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<tr>
<td>1-3pm</td>
<td>Diagnostic enzymes in cardiac disorders</td>
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<td>Diagnostic enzymes in muscular dystrophies</td>
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<td>Diagnostic enzymes in cardiac disorders</td>
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<td>Diagnostic enzymes in some miscellaneous disorders including red cell enzymes in clinical diagnosis</td>
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<td>1-3pm</td>
<td>NUTRITION: Major classes of food and in health and disease – proteins carbohydrates and fat in energy requirement</td>
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<td>Kwashiorkor and marasmus</td>
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<td>Micro nutrients requirements – Vitamins and trace elements in health and in disease</td>
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<td>9-12pm</td>
<td>Haematological biochemistry: I iron metabolism</td>
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<td>2-5pm</td>
<td>Iron metabolism (contd)</td>
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<td>9-12pm</td>
<td>Haematological biochemistry II: Folate &amp; Vit. B12 metabolism</td>
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<td>11-1pm</td>
<td>Plasma proteins I</td>
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<td>2-5pm</td>
<td>Plasma proteins II</td>
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<td>11-1PM</td>
<td>Plasma protein electrophoresis to show the components of plasma proteins &amp; their functions</td>
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<td>2-5pm</td>
<td>PRACTICALS</td>
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<tr>
<td>11-1pm</td>
<td>Paraproteinaemia I</td>
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<td>Paraproteinaemia II</td>
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<td>PRACTICAL</td>
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<tr>
<td>11-1pm</td>
<td>Calcium &amp; Phosphorus metabolism I</td>
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<td>Calcium, Phosphorus &amp; Magnesium “ II PRACTICALS</td>
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<td>11-1pm</td>
<td>Gastrointestinal Tract I</td>
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<td>Gastrointestinal Tract II</td>
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<td>Pancreatic function &amp; Tests</td>
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<td>Malabsorption Syndrome I</td>
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<td>Malabsorption Syndrome II</td>
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<td>G.I.T. function tests in clinical diagnosis II</td>
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<td>G.I.T function tests in clinical diagnosis II</td>
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<td>11-1pm</td>
<td>Purine metabolism I</td>
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<td>PRACTICALS</td>
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<td>Purine metabolism &amp; Gout I</td>
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<td>Lipids and lipoprotein metabolism I</td>
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<td>Lipids and lipoprotein metabolism II</td>
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<td>Hyperlipidaemia &amp; cardiovascular diseases</td>
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<td>2-5pm</td>
<td>Dyslipidaemia and disease states</td>
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<td>PRACTICALS</td>
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<td>Lipidoses</td>
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<tr>
<td>11-1pm</td>
<td>Introduction to clinical endocrinology</td>
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<td>2-5pm</td>
<td>PRACTICALS</td>
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<td>11-1pm</td>
<td>Molecular mechanism of hormonal action (for protein/peptide and steroid hormones)</td>
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<tr>
<td>2-5pm</td>
<td>Molecular mechanism of hormonal action (contd)</td>
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<tr>
<td>11-1pm</td>
<td>Hypothalamic and anterior pituitary hormones</td>
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<td>Hypothalamic and Ant. Pituitary hormones</td>
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<td>2-5pm</td>
<td>Disorders of anterior pituitary gland</td>
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<td>11-1pm</td>
<td>Disorders of Adrenocortical hormone secretion</td>
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<td>PRACTICALS</td>
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<td>11-1pm</td>
<td>Congenital Adrenal hyperplasia (CAH)</td>
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<td>Assessment Test III</td>
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<td>11-1pm</td>
<td>Adrenal medulla and its hormones: phaeochromocytoma and neuroblastoma</td>
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<td>11-1pm</td>
<td>Thyroid function – normal &amp; pathological I</td>
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<td>2-5pm</td>
<td>Thyroid function tests</td>
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<tr>
<td>11-1pm</td>
<td>Gonadal endocrinology – male I</td>
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<td>2-5pm</td>
<td>PRACTICALS</td>
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<tr>
<td>11-1pm</td>
<td>Gonadal endocrinology – female II</td>
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<tr>
<td>11-1pm</td>
<td>Biochemical monitoring of the feto-placental unit integrity</td>
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<td>11-1pm</td>
<td>Biochemistry examination of the CSF</td>
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<td>9-12pm</td>
<td>Biochemistry of malignancy &amp; Tumour markers</td>
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<td>Biochemistry of the Apud system &amp; the Apudomas</td>
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<tr>
<td>9-5pm</td>
<td>Seminars/case report/data presentation</td>
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<td>9-5pm</td>
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**MODE OF INSTRUCTION AND ASSESSMENT OF STUDENTS**

1) By didactic lectures as per the lecture schedule above  
2) By laboratory practicals as outlined in the syllabus and in the Student Practical Manual and Workbook  
3) By clinical case reports with appropriate laboratory result presentations  
4) Tutorials and laboratory result interpretations.
In-course assessment tests (3 – 4) are conducted during the course of the programme and a mock examination is taken. The in-course assessment tests form 30% towards the final MBBS Part II Professional exam. score.

The final MBBS Part II Professional exam. Form 70% of the total score which comprises the following:

(i) **Paper I**: (multiple choice questions, MCQ) 40 questions
(ii) **Paper II** (Essay type questions)
    (a) One (1) long question and
    (b) One (1) multiple short essay type questions covering (2-3) varied topics of the syllabus
(iii) **Practical Exam**: The steeple chase format for practicals is adopted and used
(iv) (a) to assess the competence in performing simple tests e.g. urinalysis and their application to clinical problem solving.
    (b) To make the student interpret patients laboratory investigations/data for appropriate diagnosis.
    (c) To allow students identify some essential laboratory equipment/apparatus they should be familiar with during practical class sessions or posting in the clinical laboratory of the teaching hospital.
(v) **Orals/viva voce**: To allow students to express themselves during the oral session on any academic/professional topic or subject matter asked by a panel of expert examiners.

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**EQUIPMENT/REAGENTS/CONSUMABLES THAT ARE AVAILABLE PRESENTLY & FOR SERVICEABLE**

**EQUIPMENT**

1. pH/blood gas analysers (Ciba – Corning) x 2 serviceable
2. Sensitive Chemical balance (Mettler)
3. Bench centrifuge (12 buckets) – Gallenkamp 80-2
4. Colorimeter (Hannah Instruments)
5. Deep freezer (Gallenkamp)
6. Spectronic 21 D Spectrophotometers x 2 (Milton Roy)
7. Microprocessor pH Meter 211 (Hannah instruments)
8. Refrigerator/freezer (Sanyo Medical Freezer)
9. Uniscope Electrophoresis Tank with Power pack & Accessories
10. Electrical ring boiler
11. Emission Flame Photometers x 2 (Gallenkamp & Jenway)
12. Hot air laboratory oven (Fissons Inst.)
13. Stainless water baths x 2 (Grant & Haake Inst.)
14. Timer
15. 664 Fast 4 System (Ciba – Corning) Autoanalysers (Serviceable
16. 550 Express Clinical Chem. Autoanalyser (Ciba-Corning) 

**B. GLASSWARE ETC.**

17. 1ml, 2ml, 5ml, 10ml (glass) graduated pipettes
18. 10ml graduated pipettes (plastic)
19. 100ml, 1 litre, 2litre, (glass) measuring cylinders
20. 1 litre (plastic) measuring cylinders x 10
21. Rimless test tubes (glass)
22. Test tubes plastic
23. 2 litre conical flasks (glass)
24. 1 litre beakers (glass)
25. 250ml, 500ml Beakers (glass)
26. Small funnels (plastic & glass)
27. 100ml, 200ml, 500ml, 1ml (fixed and adjustable volume) pipettes - Oxford
28. No. 1 filter Papers (different sizes)
29. Pipette washer (plastic)
30. Test tube racks (wooden, plastic & metal)
31. Universal bottles (30ml capacity) x 2x400 pcs each
32. EDTA specimen bottles x 200
33. Fluoride-oxalate sugar bottles x 200
34. EDTA – KF sugar bottles x 100
35. Lithium heparin bottles x 200
36. Plain bottles (10ml) x 200
37. Cellulose Acetate Papers x 1 pkt.

C CHEMICALS & REAGENTS
1. Benedicts qualitative solution 2x2½L
2. Clinitest tables x 2 pkts
3. Clinistix test strips for urinalysis
4. Albustix
5. Combi 9 test strips for urinalysis
6. Combi 2 & Combi 3 strips for urinalysis
7. Occult blood test tables
8. Pregnancy test strips
9. Ammonium sulphate 1x500gm
10. Barium chloride 1x500gm
11. Trichloroacetic acid 1x500gm
12. Sulphosalicylic acid (SSA) 1x500gm
13. p –dimethylamino benzaldehyde 1x20gm
14. Ferric chloride 1x500gm
15. Sodium Nitroprusside 1x250gm
16. Sodium Salicylate 1x250gm
17. Sodium Acetate 1x500gm
18. Sodium chloride 1x500gm
19. Mercuric Nitrate 1x250gm
20. Sodium Carbonate 1x500gm
21. Sodium Hydroxide 1x500gm
22. Diphenylcarbazone 1x250gm
23. Phenol red 1x100gm
24. Picric Acid 1x500gm
25. Conc. Ammonia solution 1x2½L
26. Conc. Hydrochloric acid 1x2½L
27. Conc. Sulphuric acid 1x2½L
28. Chloroform 1x2½L
29. Acetone 1x2½L
30. Amyl Alcohol 1x500ml
31. Acetic Acid 1x2½L
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<td>Absolute Ethanol</td>
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<td>33.</td>
<td>Methanol</td>
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Department of Haematology and Blood Transfusion

Objective:

This is to introduce medical students to Haematology as a subject and a clinical discipline. Requirement: It is expected that the students would have gone through the pre-clinical programme of the MBBS and must have satisfied the examiners at the 2nd MB exams (Part I MBBS).

Haematology shall be taught in three modules as soon as the students commence the clinical programme. It shall be taught alongside the other disciplines in laboratory medicine i.e. Histopathology, Chemical Pathology, Medical microbiology & Parasitology. Each module shall be for eight weeks, there shall be 8-16 hrs of lecture in each module; 2hr practical class shall accompany each hour of lecture. At the end of each module, there shall be an end of posting test to assess the students’ knowledge. The three modules shall be intercalated with the other clinical postings.

1st Module: This will be an introductory class, during which the students shall be exposed to the different aspects of Haematology and foundation lectures given in the different aspects. At the end of the module each student should be able to describe the different aspects of Haematology and the function of a Haematologist and also describe the different tests carried out in a Haematology laboratory and the usefulness of each test.

2nd Module: The lectures shall be geared towards the formation of the different components of the blood elements and how diseases may arise from abnormalities of the different aspects of the red cell, white cell and platelet. Disorders arising from abnormalities of the Haemoglobin molecules shall also be taught at this level. The students shall also learn the different causes of Anaemia, how to investigate and treat such. Organization of the blood bank and the concept of safe blood and Biosafety guidelines shall be taught in conjunction with the different blood group systems and clinical blood transfusion practices.

3rd Module: This shall comprise clinical Haematology mostly. It shall include lectures on the malignant disorders of the white cells alongside lymphoproliferative and myeloproliferative disorders. Inherited and acquired disorders of the coagulation system shall also be taught. At the end of the posting, it is expected that the students shall be able to discuss the differences between malignant white cell disorders and benign white cell disorders; they are also expected to differentiate between an acute malignant disorder and a chronic disorder. In addition, they will be able to say the similarities and differences between the different inherited bleeding disorders. At the end of this posting, the knowledge of the student shall be tested in all aspect of Haematology during the Pathology and Pharmacology exam, which comes up immediately after the posting.

Practical Class: This shall involve both the lecturers and laboratory scientists. The scientist shall prepare the slides and/or other materials needed for the class. The lecturer shall give the theory/principle of the practical class in the first half hour of the class. The class shall include a demonstration by the scientist and subsequent participation by the students.

The Pathology Examination
This shall comprise of four parts
- Multiple choice questions
All the four aspects shall include the four disciplines (Haematology, Histopathology, Chemical Pathology, Medical microbiology & Parasitology) taken at the same sitting. The practical and oral exams for the four disciplines shall be taken at the same time. Each discipline shall be responsible for marking and collating their results; each discipline shall be responsible for the choice of its external examiner. All lecturers and external examiners shall be at the board of examiners meeting to certify the result before it is released.

COURSE CONTENT

INTRODUCTORY (MODULE ONE)

- Introduction to Haematology
- Introduction to serology and the organisation of a blood bank
- The coagulation cascade and routine coagulation tests
- Reference values in Haematology and interpretation of results
- The different Romanowsky stains and anticoagulants used in Haematology
- Biosafety guidelines
- Haemopoiesis: erythropoesis, granulocytopoiesis
- Haemoglobin structure and function

MODULE TWO

- Iron deficiency anaemia
- Megaloblastic anaemia
- Haemoglobinopathies: Structural defects
- Haemoglobinopathies: Quantitative defects
- Enzymopathies: G6PD deficiency
- Membranopathies: Hereditary sherocytosis, Hereditary Elliptocytosis
- Paroxysmal Nocturnal haemiglobinuria
- Safe blood, blood collection & processing
- The ABO blood group system
- Rhesus blood group system
- Transfusion reactions and management
- Haemolytic disease of the newborn
- Preparation of blood components

MODULE THREE

- Burkitt’s lymphoma
- Non Hodgkin’s lymphoma
- Hodgkins disease
- Acute lymphoblastic lymphoma
- Acute myeloblastic lymphoma
- Chronic lymphocytic lymphoma
- Chronic myeloblastic lymphoma
- The myeloproliferative disorders
- Multiple myeloma
- The inherited bleeding disorders
- Acquired disorders of coagulation
- Thromboembolic disorders
Department of Medicine

Undergraduate Medical Course

It is expected that at the end of the course in medicine, the student will have acquired the knowledge, skills and attitudes that will enable him/her to:

1. Achieve a basic understanding of the general principles and philosophical understanding of medicine.
2. Obtain a good medical history, and record them accurately and coherently
3. Examine clinically all organs and systems of the body elicit relevant signs related to each of them and record these accurately
4. Assess the general condition, mental and psychological states and attitudes which may have any bearing on the patients complaints
5. Compile all data obtained from the history and clinical examination, and construct a coherent differential diagnosis.
6. Describe the common diseases of each organ/system of the human body and all the signs and symptoms associated with each
7. Describe the most appropriate therapeutic means to cure in the shortest time possible the diseases so described and thus alleviate the patients pain, prolong his or her life, and prevent any complications.
8. Manage common medical emergencies, prevent their occurrence, treat them rationally or refer them safely to the appropriate centers in good order.
9. Recognize the very serious cases that need specialized management, refer them appropriately by the best available means and in good condition.
10. Be aware of the common diseases prevalent in the area of his or her practice.
11. Be aware of the possible laboratory and other aids which may assist him in arriving at or verifying the appropriate diagnosis.
12. Practice with good bed side manners and ethical standard and have an abiding respect and concern for his patients and their families.
13. Be aware and recognize the indications, contraindications, limitations, and side effects of drugs.
14. Perform all common medical diagnostic and therapeutic procedures safely and skillfully.
15. Seek guidance from appropriate sources, such as more experienced colleagues, journals, books, when appropriate.
16. Commit himself or herself to a life long goal of continuing education and Training.

I. Introduction to Clinical Medicine:

Objective:
- Students are introduced to the ideal composition of the health care team
- To recognize the roles of individual members of the health team
- Known how to relate positively to members of the health team in the interest of the patient
- Understand the basic ethical requirements in his/her dealings with the patient.
- Thoroughly understand the requirements in the area of Doctor-patient relationship.
Methods:

Students are exposed to nursing programme, occupational therapy, medical social work, diagnostic laboratories, radio-diagnosis, laundry and mortuary.

2. **Junior Clerkship:**

Objectives:

At the end of the course, student should be able to:-

- Obtain a full relevant clinical history from any patient record and
- Present the history to medical colleagues in a professional manner
- Carry out complete physical examination on any patient
- Identify abnormal symptoms and signs in the patients
- Perform some of the following:
  - urine examination, perform venepuncture, give safe intramuscular injection
  - carry out stool, sputum examination
  - take and interpret patients temperature.

Teaching and Learning Methods:

- didactic lectures and discussions
- practical demonstrations
- practical exercises in allotted patient
  - use of instructional materials
    - audiovisual aids – internet
- Clinico-Pathological Conference

3. **Intermediate Clerkships:**

Objectives:

At the end of the course, the students should be able to:

- clerk patients fully on his own and make the appropriate and differential diagnosis
- understand the basic examples and use of modern methods of diagnostic machines e.g. X-ray, Ultra Sound, (C.T. Scan) Computerized Tomograph Scanning
- understand common abnormalities in radiography, electrocardiography
- understand the indications for aspiration of and safety of aspiration of pleural effusions and
- examine specimen of body fluid aspirate CSF, Pleural effusions etc.
- explain the clinical manifestations of diseases on the basis of the underlining pathophysiology of the lesions
- understand the principles of writing medical prescriptions and be able to write prescriptions for common diseases
- understand the use of chemotherapy and chemoprophylaxis to treat infection caused by bacteria, viruses etc.

**Teaching Methods:**

**Lectures and seminars**
- Tutorials
- Constant practice on allotted patients
- Participation at Ward and Grand rounds
- Use of self instructional materials, textbooks and audio-visual aids.

**Evaluation:**

Written papers, MCO Essay and Clinical

4. **Senior Clerkship**

**Objectives**
At the end of the course, the students should be:
- Able to carry out all the objectives of the junior and intermediate postings with proficiency and greater competence
- Able to receive and manage appropriately medical emergency cases
- Able to fully understand the diagnosis, presentation, treatment and prognosis of locally important endemic diseases
- Able to clinically diagnose and manage patient with malignant diseases, including referral and appropriate specialized treatment
- Fully conversant with ethical practice and its principles
- Fully understand the role of medical precision in the promotion, prevention, protection and management of the health of the individual, as well as the general populace, and the rehabilitation of the disabled patient in the community
- Able to diagnose psychosomatic and psychiatric diseases, treat and refer as appropriate
- understand the role of research as a tool for continuing improvement in health care delivery of the nation and the world.

5. **Lecture/Seminar/Clinical Content:**
Areas to cover include Pathology, Pathogenesis, Aetiology, Clinical Manifestation, Natural history and Prognosis.

**GENERAL**
Fever, Pain, Coma, Acute poisoning, Anaphylaxis

**CARDIOLOGY** - **MED 403**
- Rheumatic fever; Rheumatic heart disease
- Infective endocarditis
- Ischaemic heart disease
Hypertension
Dysrrhyhmias and cardiac arrest
Pericarditis
Cardiomyopathy
Heart failure
Investigation of cardiovascular diseases

**RESPIRATORY MEDICINE** - **MED 404**
Respiratory infection - Upper and lower tract
Pulmonary tuberculosis
Sarcoidosis
Pneumothorax and pleuritis (wet and dry)
Pulmonary abscess and empysema
Bronchiectasis
Bronchial asthma
Obstructive airways disease and respiratory failure
Pulmonary embolism
Pneumoconiosis

**GASTROENTEROLOGY** - **MED 405**
Jaundice
Diarrhoeal diseases
Amoebiasis
Hapatitis
Intestinal helminthiases
Schistosomiasis
Peptic ulcer disease
Schistosomiasis
Peptic ulcer disease
GIT Malignancy
Diverticular disease
Liver cirrhosis
Liver carcinoma
Liver cell failure

**HAEMATOLOGY** - **MED 406**
Nutritional anaemias
Haemolytic anaemias and G-6-P deficiency disease
Sickle cell disease
Hypoplastic and myeloplast anaemias
Haemorrhagic disorders
Polycythaemia and myeloproliferative disorders
Malignant lymphomas
Multiple myeloma
Thrombotic diseases

**ENDOCRINOLOGY** - **MED 407**
Diabetes mellitus
Disorders of the Thyroid
Parathyroid disorders
Adrenal disease
Disorders of nutrition in the adult
Disorders of Hypothalamo-pituatry axis
Endocrine disorders of ovaries and testes

NEUROLOGY - MED 408
Cerebrovascular accident
Neuropathies
Epilepsy and other seizures
Meningitis and encephalitis
Parkinsonism and motor neurone disease
Dementia
Myasthenia gravis and muscular dystrophy

RENAL MEDICINE - MED 409
Water, electrolyte and hydrogen balance
Urinary tract infections
Glomerulonephritis and acute renal failure
Nephrotic syndrome
Chronic renal failure

RHEUMATOLOGY - MED 505
Autoimmunity and connective tissue diseases
Lupus erythematosus
Gout
Rheumatoid arthritis
Osteoarthritis.

INFECTIOUS DISEASES - MED 507
Malaria
Typhoid
Viral and related diseases
Acquired immune deficiency syndrome – AIDS
Amoebiasis
Tetanus
Septicaemia
Sexually transmitted diseases – STD

ONCOLOGY - MED 508
Clinical effects of malignant disease
Management of malignant disease
Management of dying patients and of their relatives

GENERAL THERAPEUTICS - MED 509
1. Prescription of drugs:
   Principles, ethical considerations and practice
2. Fever
3. Pain
4. Nausea and vomiting
5. Diarrhoea
6. Constipation
7. Use and abuse of hypnotics, anxiolytics and tranquillizers
8. Antidepressant therapy
9. Use and abuse of antibacterial medications
10. Chemotherapy of malignant disease
11. Chemotherapy of infections
12. Approach to management of substance abuse including alcoholism and drug addiction.

**DERMATOLOGY** - **MED 603**
- Parasitic and viral skin infections
- Filariaises and Guineaworm disease
- Eczema/dermatitis
- Leprosy and other granulomas
- Drug eruptions
- Pigmentary disorders
- Skin manifestations of systemic disorders

**MEDICAL ETHICS** - **MED 604**
List of Lectures
- History and Philosophy of Medical Ethics
- Case Studies
- Presentation of real cases from NNC files

**GENERAL**
- Lymphadenopathy,

**CARDIOLOGY** - **MED 403**
- Symptoms and signs in cardiology
- Pericardial disease

**RESPIRATORY MEDICINE** - **MED 404**
- Symptoms and signs in Respiratory medicine
- Investigation of respiratory diseases
- Pulmonary embolism

**GASTROENTEROLOGY** - **MED 405**
- Symptoms and signs in Gastroenestinal disease
- Investigation of gastroenestinal diseases
- Hepatic Abscess
- Pancrea Titis
- Acute non-surgical (medical) abdomen
- Malabsorption syndrome
- Non-ulcer dyspepsia
- Acute Gastrointestinal haemorrhage
- Carcinoma of the pancreas

**ENDOCRINOLOGY** - MED 407
- Symptoms and signs of endocrine disorders
- Investigation of endocrine disorder

**NEUROLOGY** - MED 408
- Approach to patients with CNS disorders/localization of lesions within the CNS
- Investigation of CNS diseases
- Stroke in the young/stroke-like syndromes
- Cerebral abscess
- Headache
- Spinal cord disorders including Tuberculosis of the spine (replace this with myasthenia gravis …. – in the book)

**DERMATOLOGY** - MED 603
- Terminologies used in Dermatology
- Anatomy and physiology of the skin
- History taking, examination and investigations in Dermatology
- Rosea
- Disorders of the scalp and hair
- Connective Tissue disorders.

**GENERAL THERAPEUTICS** - MED 509
- Bosage firms
- Drug interactions: clinical importance, mechanism, monitoring of adverse drug reactions.
- Influence of disease on drug effects and interactions.
- Introduction to clinical pharmaco-dynamics
- Principles of clinical management
- Evidence based medicine.

**RENAL MEDICINE** - MED 409
- Symptoms and signs of renal diseases.
- Approach to investigation of renal diseases
- Interstitial renal disease
- Obstructive inspasty and congenital abnormalities
  - Chronic renal failure (including, chronic glomerulonephritis, diabetic nephropathy, sickle cell nephropathy
  - (To replace chronic renal failure in the book)

**RHEUMATOLOGY** - MED 505
- Symptoms and signs of rheumatological diseases
- Investigation rheumatological diseases
- Connective tissue disorders.

**TEACHING METHODS:**
Lectures and seminars
Tutorials
Clinico-pathological conferences
Death Conferences
Constant practice on allotted patients
Participation at Ward and Grand rounds
Use of self instructional materials, textbooks and audio-visual aids.

**ASSESSMENT**
Continuous Assessment tests
End of Posting Examination
Mock Final Examination

Examinations

Written paper 1 Essay
Paper 11 MCQ
Clinicals
  Long Case
  Short Case
  Orals
Department of Medical Microbiology

Course Outline
The course in medical microbiology consists of seven parts
- Introduction (MCB 401)
- Bacteriology (MCB 402)
- Immunology (MBC 403)
- Virology (MCB 404)
- Mycology (MCB 405)
- Medical Protozoology (MCB 406)
- Medical Helminthology (MCB 407)
- Applied Microbiology (MCB 408)
- Medical Entomology (MCB 409)

Each part except the section on infectious diseases consists of lectures and demonstrations/practicals and the students are expected at the end of the course to be able to apply the knowledge gained to the practice of medicine.

(i) Introductory Microbiology (MCB 401)
Course Content:
Lectures:
(a) History of Microbiology and its place in Medicine
(b) General characteristics of microorganisms cell structure and function
(c) Classification and identification of microorganisms
(d) Growth and metabolism of microorganisms
(e) Microbial genetics and variation
(f) Antimicrobial methods, sterilization and disinfection.

Practicals:
(a) Safety procedures in the microbiology laboratory demonstration of tools used in microbiology laboratory; use of the microscope.
(b) Simple staining techniques – Gram’s and Ziehl-Neelson staining techniques.
(c) Demonstration of different types of media including those used for various microorganisms.

(ii) Bacteriology (MCB 402)
The lectures encompass the nature and classification of bacteria of medical importance, mechanisms of pathogenicity and virulence, metabolism and multiplication, and description/identification of specific bacterial agents of infectious diseases. In the practicals students will be expected to be able to list the basic safety procedures in the microbiology laboratory and demonstrate ability to:

(a) Prepare and stain films/smears
(b) Use the light microscope etc.

Course Contents:

(iii) Bacteriology
Lectures
(a) General properties and cultivation of bacteria
(b) Microbiological specimens – collection, transportation, storage and processing and diagnostic methods.
(c) Specific bacterial agents of infectious diseases
   - Staphylococci and streptococci
   - Clostridium and Bacillus species of medical importance.
   - Corynebacteria, mycobacteria
   - Enterobacteriaceae
   - Spirochaetes and Niesceria
   - Hemophilia, Bordetella, Vibrio, Brucella,
   - Campylobacta
   - Mycoplasma, Ureaplasma, chlarydia and Rickettsiae
   - Anti-bacterial agents and chemotherapy.

Practicals
(a) Demonstration of plating–out technique from the body normal flora, aeromicrobes and surrounding environments.
(b) Making of smears from samples and inoculation onto solid media and into liquid media; isolation techniques
(b) Demonstration and practicing of staining techniques, collection and examination of clinical samples/specimens such as blood, urine, CSF, swabs, stools etc.
(d) Drug susceptibility testing.

(iv) Immunology (MCB 403)
In the course of immunology, the following would be discussed:-

Innate immunity – factors affecting e.g. age, species specific anatomical factors (skin, membranes) etc. nutrition, hormones, acquired immunity – active and passive, factor affecting acquired immunity, antigens and their determinants, lymphoproliferative organs and their function in the immune biosynthesis of immunoglobulin, the thymus and tissue in the immune response, responses, structure and function of immunoglobulin, deficiencies in cell mediated immunity hypersensitivity – immediate and delayed anaphylaxis, immune tolerance. Tissue and organ transplantation. HLA system, immunosuppressant, malnutrition and immunity. Immunity and bacterial infections. Immunity and viral infection. Immunity and protozoan and helminth infestations. Immunity and fungal infections. Vaccination and immunization, autoimmunity. Host preservation of self (host surveillance) examples of autoimmune diseases, possible mechanisms involved in pathogenesis. Immunohaematology - ABO system, rhesus incompatibility, immunity and malignancies, tumor antigens.

(v) Virology MCB 404
Nature of a virus, properties and principles of virus structure, differences between viruses and bacteria. Effects of virus on its host cell, virus replication portals of virus entry. Pathogenesis of virus infection. Immune response to virus infection, viral vaccines and vaccination.
Basic principles of virus classification.

Practicals: Students will be expected to recognize the basic methods for culturing Viruses:
(a) Cell culture method
(b) Egg culture method
(c) Animal culture method.
Description and identification of some medically important viruses.

Respiratory disease viruses:
Influenzaviruses, Parainfluenzaviruses, Rhinoviruses, Respiratory Syncytialviruses, Adenoviruses.

Central Nervous System (CNS) and Childhood disease viruses:
Enteroviruses, Measles, Mumps, Arboviruses, Rabies Viruses LCM etc.

Herpertitis, Diarrhea, Faetus and infant disease viruses:
Herperitis A & B; Rotaviruses, Rubella, Vericella-zoster, other enteric viruses.

New and emerging disease viruses: Retroviruses – HIV/AIDS
Lassavirus; viruses and human cancer.

Practicals: Recognition and interpretation of the following serological tests for identification of medically important viruses.
(a) Complement fixation test (CFT)
(b) Neutralization test (NT)
(c) Haemagglutination and haemagglutination inhibition test
(d) ELISA tests.

Course Contents
(a) Introduction to mycology (fungi)
(b) General feature and characterthis of fungi
(c) Dermatophytes
(d) Fungi causing superficial subcultures
(e) Fugal agents of sytemic nufioses
(f) Actinomycetes and Nocordia
(g) Opportunistic mycoses.
(h) Antifungal Chemotherphy.

Practicals:

Medical Protozoology (MCB 406)
Different types of parasites:
Classification, properties, structure and life cycle, including the identification of various stages, of the following protozoa.
Plasmodium supp. Toxoplasma gondii, entomoeba histolytica, and gingivilis, opportunistic pathogen coli, trypanosome spp, leichincinia spp.
Students will be expected to demonstrate ability to perform thin and thick films. Demonstrate ability to perform, staining with giemsa, wrights fields and leishmans stains. demonstrate ability to recognize plasmodium spp, and tryponssoma spp. in a stained smear given a properly working light microscope. Demonstrate ability to prepare wet mounts and identify;

1. trophozoites
2. cysts
3. glardia
4. trichomonas
5. E. coli

(viii) **Medical Helminthology (MCR 407)**
Development of medical helminthology, classification of helminthes general properties of helminths.

Description and identification of the following helminths;
Schistosoma app. (masoni haematobium and japonicum) paragonimus westernii, fasciolopsis burki, taenia spp, (saginata and solium) echinococcus granulocus ascaris lumbri –coides, stronglyloides sterobius vermicularis, trichuris, trichura, onchocerca vecculus,wucheraria bancroftii, Loa Loa, brugia malayi, drancuculus meanesis, acathochei- lonema spp, trichinelia spiralis.

**Practicals:**
Students will be expected to demonstrate the ability to prepare wet mounts from stool with saline and iodine. Demonstration ability to prepare thin and thick films for the identifications of microfilaria. Demonstrate ability to prepare wet mounts for urine. demonstrate ability to recognize helminthes from tissue biopsy.

(a) Collection and processing of mycological specimens
(b) Cultivation of fungi on sabourands agar and demonstration of mycelia growth.

(ix) **Applied Microbiology (MCB 408)**

Lectures will be on various terminologies used in describing or identifying various microbial diseases and their effects on various organs of the body.

**Course Contents:**

(a) Terminologies in infections diseases I :
normal flora (microbiota), commensal, opportunistic and obligate pathogens. Pathogemnicity, urulence, invasiveness, toxins, toxoids and antitoins.

(b) Terminologies in infections II:
Exogenous and endogenous infections, Endemic, epidemic and pandemic infections/disease, zoonosis, septicemia, bacteraremia and toxaemia, antoxibiotics, bacteriocines and vaccines.

(c) Opportunistic infections

(d) Nosocomial infections

(e) Intracranial/central nervous system (CNS) infections.

(f) Ear, Nose and Throat (ENT infections

(g) Pulmonary infections

(h) Enteric and intraabdominal infections
(i) Urinary Tract Infections (UTI)
(j) Sexually transmitted diseases (STD)
(k) Infections of bones, joints, skin and soft tenses
(l) Septicemia, hepatitis and endocarditic
(m) Food poisoning.

N.B. Details for the practicals are dully presented in the Department’s Student Laboratory Manual which each clinical student is expected to possess.

(x) Medical Entomology (MCB 409)

The course will cover a comprehensive study and demonstration of vectors/insects responsible for the transmission of major diseases such as female anophelis mosquito in relation to malaria, aedes aegypti vector of yellow fever, similiun damnosum, the vector of onchoceriasis, tse-tse fly the vector of truypanosomiasis etc. different vectors would be demonstrated.
Department of Morbid Anatomy

OVERVIEW
The Department of Morbid Anatomy is one of the Laboratory Medicine Departments in the School of Clinical Medicine of the Igbindeion University, Okada, College of Health Sciences. The department teaches that aspect of medicine that deals with the diagnosis of diseases. As with the rest of the Laboratory Medicine Departments, it forms the bedrock of patient management. Knowledge of Morbid Anatomy prepares the students for further instructions during the clinical years.

Medical students enroll with the department at 300 level and receive instructions over a period of three semesters. The course comprises lectures and practicals, the latter include attendance at postmortem examinations, instructions on the gross and microscopic appearance of disease states, which include time spent in the departmental museum.

OBJECTIVES
The Department of Morbid Anatomy has the following as its objective:

(a) To provide a sound and all round education in the basic science of Histopathology to the medical students.

(b) To make the students aware of the relevance of Histopathology to Medicine and its diagnostic values in the management of patients.

(c) To develop and provide appropriate courses for students of other departments who may require a working knowledge of Histopathology.

COURSES OFFERED
Undergraduate courses include General pathology, Systemic Pathology and Forensic Medicine.

The lecture schedule for the 2005/2006 period is attached as a separate document. All courses are compulsory and amount to 20 credit units. The department plans to start postgraduate (Masters Degree) courses in Forensic Science and Forensic Pathology during the 2006/2007 sessions. The curricula for these graduate programmes are currently being packaged.

COURSE DESCRIPTION
In Morbid Anatomy, students are introduced to general pathology and special or system pathology. The general concern is with basic reactions of cells and tissues to abnormal stimuli that underlie all diseases. The system pathology examines the special responses of specialized organs and tissues to more or less well defined stimuli. The course is taught synchronously with some tropical diseases as seminar topics to emphasize the response of these tissues to injuries.

During the course, the students are encouraged to identify disease and make discussion of some of the common condition in the teaching pots and slides.

An introductory lecture in Forensic Medicine has been introduced into the curriculum for undergraduates.
These courses are detailed as below:

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE AND DESCRIPTIONS</th>
<th>UNIT S</th>
<th>STATUS</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOA 401</td>
<td>Special topics in Morbid Anatomy. A detailed study of common pathological conditions using seminars and presentation.</td>
<td>2</td>
<td>C</td>
<td>30</td>
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<tr>
<td>MOA 402</td>
<td>Introduction to pathology especially Morbid Anatomy. Books on Pathology The normal cell (ultrastructure) Necrosis &amp; Postmortem changes</td>
<td>1</td>
<td>C</td>
<td>15</td>
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<tr>
<td>MOA 403</td>
<td>Aetiology &amp; Pathogenesis of Disease. The injured cell (including degeneration and disturbances of fat protein and carbohydrate metabolism and their accumulations in the cell)</td>
<td>1</td>
<td>C</td>
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<tr>
<td>MOA 404</td>
<td>Growth and its Modifications/Abnormalities Atrophy, Hyperplasia, Hypertrophy, Metaplasia, Dyplasia.</td>
<td>1</td>
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<tr>
<td>MOA 405</td>
<td>Inflammation, Chemical Mediators of Inflammation, Factors modifying inflammatory reaction. Types of inflammatory reaction, and Exudates, Abcesses, Ulcers, Empyema Characteristics of Acute and Chronic inflammation, Granulomas System/constitutional effects of inflammation.</td>
<td>1</td>
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<tr>
<td>MOA 406</td>
<td>Disturbances of fluid Balance and Haemodynamics, Heamorrhagic shock, Thromboembolism &amp; Infarction</td>
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<tr>
<td>MOA 407</td>
<td>Healing and repair (including factors affecting Healing and Repair)</td>
<td>1</td>
<td>C</td>
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<tr>
<td>MOA 408</td>
<td>Pigments Pathological Calcification</td>
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<tr>
<td>MOA 409</td>
<td>Betokasua; Definition, Nomenclature and Classification Characteristic of Neoplasms: Growth differentiation and spread. Factors related to the spread of Cancer, Diagnosis, grading and staging of Cancer Changes in Cancer Cells Carcinogenesis &amp; Geographical incidence of Cancer. Effects of Maligament tumours on Host differentiation and spread. Factors related to the spread of Cancer, Diagnosis, grading and staging of Cancer Changes in Cancer Cells. Carcinogenesis &amp; Geographical incidence of Cancer.</td>
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<td>MOA 410</td>
<td>GENETICS AND SOME GENETIC DISORDERS</td>
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<td></td>
<td>Introduction: The Normal Karyotype, Mutations Cytogenetic disorders</td>
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<tr>
<td>MOA 411</td>
<td>RESPIRATORY SYSTEM</td>
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<td>C 15</td>
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<tr>
<td></td>
<td>Vascular Disorders</td>
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<td>Pulmonary Infections</td>
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<td></td>
<td>Pneumoxoniosis</td>
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<td>MOA 412</td>
<td>CARDIOVASCULAR PATHOLOGY</td>
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<td></td>
<td>Blood Vessel</td>
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<td>The Heart</td>
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<td>Ishaemic Heart Disease</td>
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<td>Rhematic Carditis, Endocarditis</td>
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<td>Myocarditis</td>
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<td>Hypertensive Heart Disease</td>
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<td>Cardiomyopathy</td>
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<td>Cardiac Neoplasia</td>
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<td>MOA 413</td>
<td>GASTROINTESTINAL SYSTEM</td>
<td>1</td>
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<td></td>
<td>Peptic Ulcers and their complications, Tumours of the stomach, Colorectal Tumours</td>
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<tr>
<td>MOA 414</td>
<td>GENITO-URINARY SYSTEM</td>
<td>2</td>
<td>C 30</td>
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<td></td>
<td>Renal Pathology</td>
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<td></td>
<td>Renal Disorders, Premalignant lesions of the cervix</td>
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<td>Carcinoma of the Uterine Cervix</td>
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<td>Tumours of the Breast</td>
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<td>Common lesion of the testis</td>
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<tr>
<td>MOA 415</td>
<td>ENDOCRINE SYSTEM</td>
<td>2</td>
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<td></td>
<td>Pituitary Gland Pathology</td>
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<td>Pathology of Endocrine Pancreas</td>
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<td>Thyroid Gland</td>
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<td>Parathyroid Glands</td>
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<td>Adrenal Glands</td>
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<td>MOA 416</td>
<td>SELECTED TOPICS</td>
<td>1</td>
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<tr>
<td></td>
<td>Malignant Tumours of Skin</td>
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<td>Intracranial Haemorrhage</td>
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<td>Brain Tumours</td>
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<tr>
<td>MOA 417</td>
<td>PRACTICALS</td>
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<tr>
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<td>Teaching Pots</td>
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<td>Teaching Slides</td>
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<td>Post-mortems</td>
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<tr>
<td>MOA 418</td>
<td>INTRODUCTION TO FORENSIC MEDICINE</td>
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</table>

**Department of Obstetrics & Gynaecology**

DEPARTMENTAL OBJECTIVES
OBJECTIVES OF THE UNDERGRADUATE COURSE IN OBSTETRICS & GYNAECOLOGY

At the end of the course in Obstetrics and Gynaecology, the student will have acquired the knowledge, skills and attitudes, which will enable him/her to:

1. Lay the necessary foundation and understand the principles and practical aspects of obstetrics and gynaecology.

2. Obtain a good history and carry out a systematic physical examination on any patient presenting with an obstetric and gynaecological problem.

3. Recognize and manage the common gynaecological diseases in the community.

4. Understand the mechanism of normal and abnormal labour and recognize and manage the common complications of labour and the puerperium.

5. Be familiar with the techniques of pain relief in labour and the use of local anaesthetics for minor obstetrics and gynaecological procedures.

6. Identify high-risk obstetrical problems and refer to the appropriate units for specialized management.

7. Be familiar with the techniques for the skilful performance of the common gynaecological and obstetrical procedures and be able to assist effectively in their management.

8. Be familiar with the common laboratory and other diagnostic procedures in obstetrics and gynaecology.

9. Be familiar with the concept of asepsis and antisepsis during all gynaecological and obstetrical procedures.

10. Perform clinical procedures with high ethical bedside considerations and treat his patients with understanding, respect and concern.

11. Be familiar with the medico-legal aspects of gynaecological and obstetrical practice.

12. Pursue a long life commitment to continuing education and training.

The course in Obstetrics & Gynaecology consists of

<table>
<thead>
<tr>
<th>Posting</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Introduction posting</td>
<td>4 weeks</td>
</tr>
<tr>
<td>Junior Posting</td>
<td>12 weeks</td>
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<tr>
<td>Senior Posting</td>
<td>12 weeks</td>
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</tbody>
</table>

**Introductory Posting.** The student is introduced to the fundamentals of Obstetrics and Gynaecology.

**Junior Posting:** The student receives lectures, tutorials and clinical training in Gynaecology and Obstetrics.
Senior Posting. The student receives further and more in-depth training in the form of lectures, tutorials and clinical exposure in the discipline of Obstetrics and Gynaecology. During the two last postings, the student is also assigned to assist the House Officers and resident medical staff in their routine clinical duties.

The student is expected to acquire enough knowledge to be able to perform

1. Routine examination of urine, including microscopy.

ii. Microscopic examination of wet preparations of vaginal/cervical swabs for candidiasis trichomoniasis and other bacterial organisms.

iii. Seminal fluid analysis.

iv. Preparation and examination of blood films for malaria parasitaemia and types of anaemia (red blood cell morphology).

v. Estimation of haemoglobin content of blood and packed cell volume, white cell count and differentials.

vi Immunological pregnancy testing of urine.

vii The minimum number of deliveries etc. each student is expected to be involved with during each posting is clearly indicated in this booklet as and when necessary.

**SEMESTER 400 & 500 LEVEL**

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSES</th>
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<tr>
<td>OBG 401</td>
<td>Introductory Obstetrics/Gynaecology</td>
<td>2</td>
<td>C</td>
<td>30</td>
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<tr>
<td>OBG 402</td>
<td>Gynaecology clinics – Junior posting</td>
<td>4</td>
<td>C</td>
<td>180</td>
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<tr>
<td>OBG 403</td>
<td>Obstetric clinics – Junior posting</td>
<td>4</td>
<td>C</td>
<td>180</td>
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<tr>
<td>OBG 502</td>
<td>Gynaecology clinics – Senior posting (Emphasis on management)</td>
<td>10</td>
<td>C</td>
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<tr>
<td>OBG 503</td>
<td>Obstetric clinics – Senior posting (Emphasis on management)</td>
<td>10</td>
<td>C</td>
<td>450</td>
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<tr>
<td>OBG 504</td>
<td>Special topics</td>
<td>2</td>
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<td>30</td>
</tr>
<tr>
<td>OBG 505</td>
<td>Call duty &amp; Tutorials</td>
<td>4</td>
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**COURSE DESCRIPTION**

<table>
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<tr>
<th>CODE</th>
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<th>STATUS</th>
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<tr>
<td>OBG 401</td>
<td>Introductory Obstetrics /Gynaecology</td>
<td>2</td>
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<td>30</td>
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<td></td>
<td>Anatomy of the female genital tract, Puberty, Menstrual cycle control &amp; variation, menopause, sex determination, intersexuality and congenital abnormalities, Conception, Implantation and early development, physiology of pregnancy, types of pelvices.</td>
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<tr>
<td>OBG 402</td>
<td>Gynaecology clinics</td>
<td>4</td>
<td>C</td>
<td>180</td>
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<tr>
<td>OBG 502</td>
<td>Pelvic Inflammatory Disease, Contraception and family planning, Infertility, Amenorrhoea, Dysfunctional</td>
<td>4</td>
<td>C</td>
<td>450</td>
</tr>
</tbody>
</table>
uterine bleeding, Utero-vaginal prolapse, Urinary incontinence, abortions, ectopic pregnancy, gynaecological emergencies, gynaecological malignancies.

**Obstetric clinics**
Antenatal care, Normal pregnancy, Obstetric haemorrhage, Ante-partum fetal monitory for wellbeing & growth, Normal labour and the use of the partograph to detect abnormal labour, Malpresentations, Malposition, Abnormal lie and Unstable lie, Obstructed labour, Instrumental delivery (Vacuum, forceps & destructive operations), Caesarean section, Medical diseases in pregnancy (Anaemia, Hypertension, Diabetes mellitus, Heart diseases, Respiratory Diseases, Haemoglobinopathy and malaria in pregnancy), Multiple pregnancies, Premature Rupture of Membrane, Pre-term labour and delivery, Prolonged pregnancy, Perineal injury, Obstetric emergencies, Care and common problems of the newborn.

**Special topics**
The concept of reproductive health, Endoscopy in Obstetrics & Gynaecology, Radiology in Obstetrics & Gynaecology (Hysterosalpingography, Plain abdominal X-rays and Ultrasonography), Radiotherapt in Obstetrics & Gynaecology, Analgesia & Anaesthesia in Obstetrics & Gynaecology.

**Call duty & Tutorials**
Clerking, Presentation, interactive session and case demonstration.
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<td>5</td>
<td>Friday Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
<td>Tuesday Physiology of the female reproductive organs: Sex hormones, Menstruation, Puberty and menopause.</td>
<td>Wednesday Physiology of pregnancy and assessment of risk in pregnancy</td>
<td>Thursday Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
<td>Friday Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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<td>7</td>
<td>Tuesday Physiology of the female reproductive organs: Sex hormones, Menstruation, Puberty and menopause.</td>
<td>Wednesday Physiology of pregnancy and assessment of risk in pregnancy</td>
<td>Thursday Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
<td>Thursday Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
<td>Friday Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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**WEEK 3 & 4**

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<tr>
<td>16</td>
<td>Monday Antepartum and Intrapartum haemorrhage</td>
<td>Tuesday Pre-Eclampsia, Hypertensive and heart diseases in pregnancy</td>
<td>Wednesday Medical diseases in pregnancy I: Endocrine; 1. Gestational Diabetes Mellitus. 2. Thyroid disease.</td>
<td>Thursday Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
<td>Friday Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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**WEEK 5 & 6**

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<tr>
<td>22</td>
<td>Tuesday Malaria in pregnancy.</td>
<td>Wednesday Anaemia in pregnancy and</td>
<td>Thursday Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
<td>Thursday Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
<td>Friday Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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<td>Date</td>
<td>Day</td>
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<td>24</td>
<td>Thursday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
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<tr>
<td>25</td>
<td>Friday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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<tr>
<td>26</td>
<td>Monday</td>
<td>Abnormal pregnancy:</td>
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<td></td>
<td></td>
<td>1. Multiple pregnancies.</td>
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<td>2. Prolonged pregnancy.</td>
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<td></td>
<td>3. Intrauterine growth restriction (IUGR).</td>
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<tr>
<td>27</td>
<td>Tuesday</td>
<td>Pre-term labour and delivery.</td>
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<td></td>
<td></td>
<td>Premature Rupture of Membrane.</td>
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<td>Tocolysis.</td>
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<tr>
<td>28</td>
<td>Wednesday</td>
<td>Gynaecological Emergencies.</td>
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<td>29</td>
<td>Thursday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
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<td>30</td>
<td>Friday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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**WEEK 7 & 8**

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<th>Date</th>
<th>Day</th>
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<tr>
<td>31</td>
<td>Monday</td>
<td>Mal-presentation (Breech, Brow &amp; Face). Transverse, Oblique and Unstable lie.</td>
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<td>32</td>
<td>Tuesday</td>
<td>Cord presentation and Cord prolapse.</td>
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<td>33</td>
<td>Wednesday</td>
<td>Malposition: Occipito-posterior position and deep transverse arrest.</td>
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<td>34</td>
<td>Thursday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
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<tr>
<td>35</td>
<td>Friday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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<tr>
<td>36</td>
<td>Monday</td>
<td>Prolonged labour, Obstructed labour, Uterine rupture and fetal death.</td>
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<td>37</td>
<td>Tuesday</td>
<td>Induction and Augmentation of labour.</td>
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<tr>
<td>38</td>
<td>Wednesday</td>
<td>Pre-malignant lesions of the cervix. Tumours of the cervix:</td>
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<td></td>
<td></td>
<td>1. Benign.</td>
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<td>2. Malignant.</td>
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<tr>
<td>39</td>
<td>Thursday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
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<tr>
<td>40</td>
<td>Friday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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**WEEK 9 & 10**

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<tr>
<th>Date</th>
<th>Day</th>
<th>Activity</th>
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<tbody>
<tr>
<td>41</td>
<td>Monday</td>
<td>Analgesia &amp; Anaesthesia in Obstetric and Gynaecological practice.</td>
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<tr>
<td>42</td>
<td>Tuesday</td>
<td>Caesarean section.</td>
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<td>43</td>
<td>Wednesday</td>
<td>Instrumental delivery:</td>
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<td>1. Forcep delivery.</td>
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<td>2. Vacuum delivery.</td>
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<td>Symphysiotomy &amp; Destructive Operations.</td>
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<tr>
<td>44</td>
<td>Thursday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Obstetric patient.</td>
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<tr>
<td>45</td>
<td>Friday</td>
<td>Clerkship, Clinical examination &amp; case demonstration for Gynaecological patient.</td>
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<tr>
<td>46</td>
<td>Monday</td>
<td>Pre &amp; post-operative management in Obstetrics and Gynaecology.</td>
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</table>
| 47   | Tuesday | Maternal genital injuries:  
  2. Perineal tears.  
  3. Genital haematomas |
| 48   | Wednesday | Episiotomy: Types, indications and complications.                        |
| 49   | Thursday | Clerkship, Clinical examination & case demonstration for Obstetric patient. |
| 50   | Friday  | Clerkship, Clinical examination & case demonstration for Gynaecological patient. |
Department of Paediatrics & Child Health

A. DEPARTMENTAL OBJECTIVES:
   (a) To introduce the students to the global principles and practice of Paediatrics and Child Health with particular emphasis on practice in the tropics.
   (b) To enable the students have a good working relationship with all the members of health team especially with respect to maternal and Child Health and to appreciate the need for team work.
   (c) To equip students with the cognitive knowledge, technical skills and clinical judgment to enable them achieve some measures of competence in the practice of paediatrics and child health.
   (d) To offer strategies of action for all children towards achieving an optimum child care package in Nigeria in particular but in Africa in general.

LECTURES CONTENTS IN PAEDIATRICS AND CHILD HEALTH
1). Introduction to Clinical Paediatrics skills
   a). The goal is to provide the students with the basic knowledge of the discipline of general paediatrics.
   b). The specific aspects of the Clinical history related to children and the methodology of physical examination in childhood.

2). Growth and Development
   a). The use and importance of growth charts, factors affecting the growth development of children including skills and techniques of anthropometry measurements in children.
   b). Developmental milestones and
   c). Problems of stature are thought into details.

NUTRITION
   d). At the nutritional clinics, instructions are given at the clinic and attendance is compulsory.
      i). Nutritional requirements such as carbohydrates, fat, protein, vitamin, minerals, fluid composition and comparison of breast milk with cow milk.
      ii). Nutritional disorders such as protein – energy – malnutrition, marasmus, vitamins deficiency, clinical features and management are through.

3). CHILD HEALTH, UNDER FIVE CLINICS AND PRIMARY CARE
   Instructions in this course are done mostly at the Health care clinics and Health centers.
   a). Students are expected to perform such procedures such as assessment of nutritional status of children, anthropometry immunization procedure.
   b). Health education to mothers, about nutrition, environmental sanitation, social factors affecting child health are discussed.
   c). Students are introduced to prevention and management of physical and mental handicap in children.
   d). Intermittent seminars are conducted on above subjects.
e). The role of poisons and domestic accidents such as drugs poisoning, bites, household accidents, kerosene poisoning and burns are discussed.

4). **CARDIOVASCULAR, RESPIRATORY**
   a). Lectures, seminars, demonstrations and clinical presentations are done on diagnosis and management of Health failure.
   b). Rheumatic Fever and heart diseases – diagnosis and management
   c). Common and important congenital heart malinformations, acyanotic and cyanotic forms with diagnosis and principles of management.
   d). Hypertension in children
   e). Diagnosis and management of respiratory emergencies.
   f). Diagnosis and management of chronic respiratory infections such as bronchial Asthma, pulmonary tuberculosis.
   g). Diagnosis and management as well as anthologies of the following diseases in childhood.
      (i). Lanyngotraceobronchitis
      (ii). Epiglotitis
      (iii). Stridor
      (iv). Wheezing (including bronchiolitis and Asthma).
      (v). Pneumonia
      (vi). Phanyngitis
      (vii). Congenital anomalies of the tract

5. **A GASTRO-INTESTINAL AND GENITO URINARY TRACT**
   a). Causes, diagnosis and management of diarrhoea
   b). Constipation
   c). Chronic diarrhoeas
   d). Causes and management of bleeding
   e). Causes and manage of Olestructions
   f). Causes and management of Jaundice, Hepatitis
   g). Mal absorption syndrome
   h). Parasites and Abdominal pain
   i). Fluid and electrolyte Imbalance
   j). Sahnollenlosis

**KIDNEYS**
   a). Anomalies of the genito-urinary system
   b). Urinary tract infection
   c). Diagnosis and management of acute glomenulouephritis
   d). Diagnosis and management of Nephritic Nephritis
   e). Diagnosis and management of Nephritic syndrome
   f). Diagnosis and management of acute and chronic Renal Failure
   g). Diabetes insipidua.

6. **METABOLIC DISORDERS AND ENDOCRINE**
   a) Causes, diagnosis and management of hypoglycemia in neonates and other children
   b) Principle of management of diabetes mellitus
   c) Rickets
ENDOCRINE
a). Stages of puberty
b). Hypothyroidism (symptoms and differential diagnosis)
c). Ambiguous genitalia
d). Precocious puberty
e). Delayed puberty

7. CENTRAL NERVOUS SYSTEM AND RETICULO ENDOTHELIAL SYSTEM
Causes, diagnosis and principles of management of:-
a). Cerebral palsy/mental retardation
b). Hypotonia and weakness
c). Coma
d). Seizures
e). Hemiplegia
f). Microcephaly
g). Macrocephaly (including hydrocephalus)
h). Different features of upper and lower motor neuron disorders
i). Encephalopathy
J). Meningitis

Reticuloendothelial system:
Causes, principles of diagnosis and management of:-
a). Hepatomegally
b). Splenomegally
c). Lymphadenopathy

8. HAEMATOLOGY/DISEASES OF THE BLOOD
Causes, principles of diagnosis and management of:
a). Bleeding disorders, in particular haemophilia
b). Anaemia (generally)
c). HIV
d). Leukaemia
e). Malaria

9. SPECIFIC INFECTIONS AND GENETICS
a) Parasites – ascanis, tricheris, teama, giardiasis, cutaneous larvae migraus
b) Can – cum omis (principles of management)
c) Common rashes with fever
d) Pyrexia of unknown origin
e) Congenital infectious

Incubation, periods, modes of transmission, complications, clinical features treatment and prevention (where possible)
a). Neissemal infectious
b). Staphylococcal infectious
c). Streptococcal infectious
d). Pneumococcal infectious
e). Chlamydia trachomatis/nichiloben)
f). Rotamrin
g). Mumps
h). Measles
i). Respiratory syncytial viral infectious
j). Influezae
k). Rubella
l). Poliomyelitis
m). chicken pox
n). Hepatis A, B, non A non B.
o). Salmonella infectious
p). Shigella infectious
q). Escherichia coli infectious
r). Diphtheria
s). Pertussis
t). Rabies
u). Schistosomiasis
v). Amoebieasis
w). Malaria
x). Syphilis ( connata)
y). Tetamis
z). Tuberculosis

21 Failure to thrive (including metabolic disorders)
22 Childhood allergy
23 Connective tissue disorders (Arthritis)
24 Rickets and bone deformities
25 Behavioral and psycho-social problems in childhood
26 Child – Abuse

Note: Students are advised to use Tele-medicine, Library and Internet facilities to improve and be up-to-date knowledge of the problems above

GENETICS
a). Molecular basis for genetic diseases
b). Modes of transmission of genetic diseases, autosomal recessive autosomal dominant traits and X-linked dominant inheritance
c). Chromosomal abnormalities such as trisomy 21-diagnosis and symptoms
e). Genetic counseling

10. PAEDIATRIC ONCOLOGY
a). Burkitt’s Lymphoma
b). Nephroblastoma
c). Neuroblastoma
d). Haematoblastoma
e). Retino blastoma
f). Hodgkin’s disease
g). Endothehal malignancies

11. NEONATOLOGY AND PERINATOLOGY
a). Genal principles on neonatology and perinatology
b). Neotal sepsis, neonatal meningitis Group B, haemolytic streptococcus and other neonatal diseases diagnosis and management.
c). Maternal diseases and infectious
d). Foetal monitoring
e). Foetal pulmonary maturation
f). Gestational assessment
g). Low birth weight, small for gestational age, large for gestational age.
h). Babies of diabetic mothers

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DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH

2). Courses offered are:
   a). Introduction to Paediatrics  
   b). Nutrition growth and development  
   c). child Health and primary care  
   d). Cardiovascular and respiratory  
   e). Genito-urinary and GI tract  
   f). Endocrine and metabolic  
   g). CNS, muscles and bones  
   h). diseases of the blood  
   i). Specific infectious and genetics  
   j). Paediatric Oncology  
   k). Neonatology and perinatology  
   l). Clinical: Daily Ward Round

   Note: All units are mandatory
   All students are expected to attend 75% of all lectures
   Total hours = 390 hours.

   LEVEL 500
   LECTURE SCHEDULE

1ST WEEK
- Introduction – welcome to the department
- Examination of the respiratory system
- Examination of the Cardio-vascular system
- Examination of the Central Nervous system
- Examination of the Abdomen

2ND WEEK
- Examination of musculo-skeletal system
- Effect of Poverty and unhealthy environment  
  Growth and Development
- History of molecular Biology to Paediatric disease

3RD WEEK
- Acute respiratory tract infectiou
- Phanyagitis, group, Asthma
- Diarrhoeal diseases, complication causes and management
- Acute abdomen in children
- Hepatitis in childhood

4TH WEEK
- Meningitis, encephalitis
- Coma and management, cerebral malaria
- Urinary tract infection
- Rheumatic fever and endocarditis
- Tuberculosis in childhood

5TH WEEK
- Measles, varicella, tetanus poliomyelitis and mumps
- Immunization schedule – Nigeria
- HIV/AIDS

6TH WEEK
- Wheezing disorders in childhood
- Paediatric adergy
- Common skin infectious in children

7TH, 8TH and 9TH WEEK
- Microcephalus, macrocephalus
- Seizures disorders in childhood
- Acute glomerulonephritis
- Diagnosis and management of Renal failure
- Hypertension in childhood

10TH WEEK
- Congenital heart disease cyanotic, and non-cyanotic including cardiomegally and cardio myopathy
- Sickle cell disease
- Leukemias in childhood
- Tumours in childhood
  : Burkitt’s
  : Retinoblastoma
  : Neuroblastoma
  : Nephroblastoma
  : Hodgkin’s disease

11TH WEEK
- Gastro intestinal obstructions in children
- Malnutrition and stanting
- Chromosomal disorders
- Under five problems

12TH WEEK
- Normal Newbone baby
- Birth Asphyxia, aethiology and management
- Neonatal Jaundice
- Neonatal Tetanus and sepsis
14TH WEEK
- Perinatology (2 sessions)
- Hypoglycaemia - Principle of management of diabetes mellitus
- Rickets (nutritional)
  - Ambiguous genitalia
- Congenital adrenal hyperplasia

15TH WEEK
- Burns
- Emergency Paediatrics and poisoning
- X-Ray sessions
- Medical Ethics

16TH WEEK
- Revision
- Examination - Progressive Assessment
  - Clinical
  - Short cases
  - Long case
- Review of Examinations and advise, round table discussion by ALL Academic - Staff

Total duration of Posting is 16 weeks

LECTURE PLAN

a). 2 Lectures hours daily five days a week

POSTING

Groups | 1st 4 weeks | 2nd 4 weeks | 3rd 4 weeks | 4th 4 weeks
--- | --- | --- | --- | ---
A | NNU | A & E | GOP+ | GW
B | GW | GOPD | A & E | NNU
C | GOPD | GW | NNU | A & E
D | A & E | NNU | GW | GOPD

MID-POSTING ASSESSMENT

After 8 weeks: MCQ and SAQ Examination

END OF POSTING ASSESSMENT

After 16 weeks:
MCQ,
Short Answer Questions
Clinical
  - Long & Short cases
  - Orals
ABBREVIATIONS

NNU means neonatal Unit
A & E means Accident and emergency unit
GOPD means General out patient unit
GW means General Ward Area
PHARMACOLOGY CURRICULUM FOR M.B, BS. DEGREE

This programme is designed to fulfill the requirements of the Medical & Dental Council of Nigeria as well as the Nigerian National Universities commission for the training of medical students in Nigeria during the clinical years.

(1) **Aims and Objectives of the Course:**

(a) **General**

i) To introduce the medical students to the principles of drug treatment in diseased states.

ii) To impart knowledge on the understanding of properties of drugs and the mechanisms by which they produce their effects in diseased conditions.

iii) To enable the medical students at the end of the course to be competent to select drug(s) rationally for any ailment diagnosed on a scientific basis.

iv) To acquaint students with the National Drug Formulary and the Essential Drug List Decree of 1989.

(b) **Specific:**

At the end of the course, the student should be able to utilize the knowledge acquired to prescribe drugs or remedies for diseased states in man. He will be able to understand the pathological condition or altered physiological state from his knowledge of pathology and other clinical sciences and prescribe appropriate drugs from his knowledge of pharmacology and medical therapeutics.

2. **Duration of the Course and Pre-requisites:**

(a) Pre-requisites for the course are the successful completion of the Part Two MBBS subjects (Anatomy, Physiology and Biochemistry) and the introductory clinical programme. The course in Pharmacology would run concurrently, and be examined together, with the Sciences of Pathology at the end of 500 level.

3. **Course Structure and Content**

(a) **Methods of Teaching include:**

(i) Didactic Lectures

(ii) Tutorials and Seminars

(iii) Demonstrations and classical audiovisual film presentations

(iv) Practical classes, clinical presentations and case reviews

(b) **EXAMINATIONS:**
There is a general policy for examinations in the College of Health Sciences of the university and the Department of Pharmacology and Therapeutics would comply fully with the current University policy on all examinations.

**GRADING AND MARKING SYSTEM**
The distinction pass mark is 70% with other conditions. The general pass mark is 50%. A close marking system is applicable for essays. A minus half penalty on wrong multiple choice or objective questions applies where it is usually compulsory to attempt all questions, but no penalty for omissions.

Continuous assessment tests contribute once, at 30% of the final score, for pharmacology written tests and the examination, at the Part III (Pharmacology & Therapeutics; Sciences of Pathology) MBBS degree examinations, ORAL EXAMINATIONS are part of the professional MBBS examinations.

**ATTENDANCE POLICY:**
75% (Seventy-five percent) attendance of all lectures, practicals, tutorials and demonstrations are the minimum requirement to be signed-up to participate in the final Pharmacology & Therapeutics Part III MBBS examinations.

(e) **TOPIC OUTLINE:**

**Course Code**

411 (i) General Principles (2 Credits; 30 hours)

The Scope of Pharmacology; Origin and Sources of Drugs, Routes of Administration of drugs; Pharmacokinetics, Absorption of Drugs; Excretion of Drugs; Biotransformation of Drugs; Mode of Action of Drugs; Types of Drug Action; Drug Action in Man; Compliance; Individual Variations; Presence of other drugs; Genetic Effects; Tolerance and Tachyphylaxis; Effects of Diseases; Drug Toxicity; Adverse Drug Reaction.

413 (ii) Chemotherapy I (2 Credits; 30 hours)

(An antimicrobials)

Microbes in Man; Mode of action of Antimicrobial Drugs; sulfonamides; Penicillins; Cephalosporins; Amlnoglycosides; Lincomycins; Peptide Antibiotics; Drugs Treatment of Tuberculosis; HIV?AIDS; Miscellaneous Antibiotics; Vancomycin, Spectinomycin, Fusidic Acid; other Synthetic; Antimicrobials; Drugs, Nalidixic Acid; Nitrofurantion; Drug Treatment of Leprosy; Antifungal Agents; Quinolones; Fluorinated Pyrimidines; Imidazoles; Miscellaneous Antifungal Agents; Methisazone; Idoxuridine; Acyclovir; Cytarabine; Antiretroviral drugs; Adenine Arabinoside, Interferons; Humoral Immunoglobulins; Malaria; Trypanosomiasis; Leishmaniasis; Amoebiasis; Amoebic Liver Abscess; Giardiasis; Balantidiasis.

Trichomoniasis; Ankylostomiasis; Ascariasis; Trichinosis; Strongyloidiasis; Enterobiasis; Filariasis, Loasis, Onchocerciasis; Dracontiasis; Schistosomiasis; Fascioliasis; Clonorchiasis; Paragonimiasis; Taeniasis, Cysticercosis, Hydatid Disease; Diphyllobothriasis; Tape Worm.
412 (iii) Chemotherapy – II (I Credit; 15 hours)  
(Antineoplastics)

Major Features of Malignant Disease; Review of Cell Kinetics; Cell cycle specificity: Cell-cycle; Non-Specificity; Cancer cell versus Bacterial Infection; Principles of Cancer Chemotherapy: Adverse Effect of Antineoplastic Drugs; Alkylating Agents; Antimetabolities; Natural products; Anthracycline; Antibiotics; other Antibiotics;

Steroid Hormones and Antagonists; Miscellaneous Anti-cancer Drugs; Agents for Immunotherapy; Radio – Activity.

421 (iv) Autonomics and Autacoids (2 Credits; 30 hours)  
(Including Ocular Pharmacology)

Review of Neurohumoral Transmission; Transmitters in the Central and Peripheral Nervous system; Cholinergic and Adrenergic Receptors; Cholinergic Stimulants and Blocking agent; Autacoids – Histamine Receptors and Histamine Antagonists; 5 hydroxytryptamine; Renin – Angiotensin; Kinins; Plasma Kinin-Bradykinin- Kallikrein; Substance P; Prostaglandins; Leukotrienes; Cyclic Nucleotides and other Mediators; Ocular Pharmacology: Miotics, Mydriatics, Cycloplegics, Ocular hypotensive (antiglaucoma) drugs; Decongestants.

422 (v) Neuropharmacology including Psychopharmacology  
(4 Credits; 60 hours)

**Neuropharmacology, Anaesthesia and Analgesia** (3 Credits).

Special situations of Drug Action; Entry of Drugs in C.N.S.; Blood-brain barrier, Non-narcotic Analgesics; Opiate Receptors; Narcotic Analgesics; Narcotic Antagonists and Partial Agonists; Antipyretic agents; sleep; Barbiturates and Non-bartiturate agents; Alcohols; Review of General and Local Anaesthetic Drugs; Anaesthesia in persons already taking drugs Neuromuscular Blocking Agents; Central Nervous System Stimulants; Anticonvusant Drugs; Epilepsies, Principles of Antiepileptic Treatment; Review of Different Groups of Antiepileptic Drugs, Status Epilepticus, Epilepsy and special situations – pregnancy; Contraception; Anaesthesia, surgery, Miscellaneous Anticonvulsant Drugs. Treatment of Parkinsonism, Levodopa, Decarboxylase Inhibitors, Bromocriptine, Amantidine; Anticholinergics; Anti-histaminics; Phenothiazines; Drug therapy of Spasticity, Dantrolene, Baclofen; Interneuronal Blockers, Drugs in Myasthenia Gravis.

**Psychopharmacology (1 Credit)**

Psychoses; Depression; Anxiety; Neuroleptics – Phanothiazines; Butyrophenones; Dihydroindoles; Dibenzodiazepines; Rauwolfia Alkaloids,
Anxiolytics Benzodiazepines; Antidepressants with sedative properties; thymoleptics; Tricyclics; Bicyclics; Tetracyclics; Monoamine Oxidase Inhibitors {Hydrazines and Non-Hydrazines}; Amino acid Precursors of Transmitter Amines; Amines; Tetrahydroisoquinoline Derivatives; Lithium; Psychostimulants; Psychodysleptics.

423 (vi) SYSTEMIC PHARMACOLOGY – I (15 Credits; 75 hours)
including:
Cardiovascular Pharmacology Renal Pharmacology (1 Credit; 15 hours)
Gastrointestinal Tract Pharmacology (1 Credit; 15 hours)
Vitamins & Haematinics (1 Credit’ 15 hours)
Respiratory Tract Pharmacology (1 Credit; 15 hours)

G.I.T. Pharmacology (1 Credit) (including hypolipidaemic drugs)
Vomiting – Antiemetics; Constipation – Purgatives; Antacids – Anticholinergics – H2 Receptor Antagonists – Ulcer Healing Drugs; Gastrointestinal Hormones – Pentagastrin – Secretin; Non-specific Antidiarhoeal Drugs; Lactulose; Lipid Disorders – Cholestryamine; Pancreatin; Cholecystokinin; Hypolipidaemic drugs.

Respiratory Tract Pharmacology (1 Credit)
Oxygen therapy, Bronchodilator drugs; Asthma, Cardiobronchial Asthma; Status Asthmaticus; Cough Suppressants; Mucolytic Agents; Respiratory Stimulants.

Haemopoietic Pharmacology, Vitamins & Haematinics (1 Credit)
Anaemias; Iron Deficiency and other Hypochromic Anaemias; Megaloblastic Anaemias; Iron Cobalamins – Folates; Anticoagulants; Heparin, Coumarins; Indandiones; Fibrinolysis-fibrinolysin; Thrombus; Platelet Aggregation Inhibitors; Vitamins.

Renal Pharmacology (1 Credit)
Diuretics; Alteration of Urinary pH; Urinary Tract Infections; Renal Failure; Immunity; Immuno-Suppressive Agents in kidney transplant; Haemodialysis treatment.

Cardiovascular Pharmacology (1 Credit)
Heart Failure and its Drug Management; Anti-anginal Drugs; Ischaemic heart Disease and its Drug Management; Antiarrhythmic Drugs, Hypertension and its Drug Management; Vasodilators.

511 (vii) SYSTEMIC PHARMACOLOGY – II (4 Creditors; 60 hours)
including:
- Antirheumatic and arthropathic drug treatment (1 Credit)
- Endocrine Pharmacology (1 Credit)
Antirheumatic and Arthropathic Drug Treatment (1 Credit)

Inflammatory Arthropathy and Degenerative joint diseases; Metabolic Disposition Arthropathy; Analgesics; Non-steroidal Anti-inflammatory Drugs (NSAID); Corticosteroids; Long-term; Antirheumatic Agents; God salts, d-penicillamine; Chloroquine; Immunosuppressive Agents; Levamisole; Gout; Colchicine and Democalcine; Phenylbutazone; Indomethacin, Probenecid; Ethiebenecid, Allopurinol.

Endocrine Pharmacology (1 Credit)

Mechanism of action of Hormones, CNS-Hypothalamus – Adenohypophysis – Endocrine Glands, Anterior and Posterior Pituitary Hormones; Thyroid Hormones and Antithyroid Drugs; Parathyroid Hormones; Calcitonin, Diabetes Mellitus; Insulin; Oral Hypoglycaemics; Hyperaldosteronism; Sex-Hormones, Oestrogens, Androgens, Progestogens, Antagonists to Hormones; Pharmacologic Methods of Family Planning.

Perinatal Pharmacology (1 Credit)

Drugs in Pregnancy; Drugs Affecting Uterine Motility, Ergot; Oxytocin, Prostaglandins; Drugs affecting Migraine.

Dermal Pharmacology (1 Credit)

General Aspects of the Dermal Pharmacokinetics; forms of Topical Application and systemic Administration in Dermal conditions; Topical Antifungal and Steroid Preparations and Adverse Effects.

SPECIAL TOPICS (5 Credits; 75 hours) including:

Toxicology, OTC’s and Drug Interactions (2 Credits) Clinical Pharmacology (2 Credits) Prescription writing and Drug Abuse (1 Credit).

Toxicology, Over-the-Counter Drugs and Drug Interactions (2 Credits)

Mechanisms of drug toxicity; Management of acute drug poisoning; Plant, bacterial and animal poisons; Solvent Poisoning: Pesticides, Herbicides, Radiation toxicology; Herbicides, Radiation toxicology; Air-borne Poisoning; Heavy metals and chelating agents; Food additives; Drug – drug interactions, Radioisotopes in Pharmacology Cobalt 60, Gold 198, iodine 131, Phosphorus 32. OTC drugs and alternative herbal products interactions with prescribed drugs.

Clinical Pharmacology (2 Credit)
Introduction to the processes of drug therapy; The Pharmaceutical process; The Pharmacokinetic process; The Pharmacodynamic process; The Therapeutic process; The mathematics of pharmacokinetics; Application of the analysis of drug therapeutic failure; Monitoring drug therapy; Pharmacogenetics; Adverse Drug Reactions surveillance; Drug Interactions; Drug therapy in neonates, the young, the elderly and in pregnancy; patient compliance; placebos; Drug development and clinical Trials.

**Prescription Writing and Drug Abuse (1 Credit)**
Principles of prescribing; Chronotherapeutic prescribing; How to write a prescription; Sources of information on drugs; Essential Drugs List concept. Drug dependence and abuse: Factors predisposing to drug dependence; Opiates, Cocaine, Amphetamine, Cannibis, LSD and Psilocybin; Psychedelics; Alcohol; Hypnotics and Tranquilizers; Tobacco (nicotine); Socio-economic consequences; Management of self-poisoning.

512 (ix) PRACTICAL PHARMACOLOGY (1 Credit; 45 hours)
In-vitro experiments:
(1) Guinea pig ileum preparation (dose-response effects)
(2) Rat phrenic-nerve-diaphragm preparation of rat.
(3) Isolated perfused heart preparation of rat.
(4) Rat jejunum or ileum (Finkleman method).
(5) Perfused isolated rat mesentery preparation.
(6) Guinea pig tracheal preparation.

In-vivo experiments:
(7) Anesthetized cat blood pressure preparation
(8) Rat blood pressure preparation
(9) Rabbit eye demonstration of local anaesthetic effects
(10) Pharmacokinetics of sulphadimidine in rabbit.
(11) Phenobarbital-sulphadimidine metabolic interaction in the rabbit.
(12) Effects of drugs on the electroncardiogram of anaesthetized dogs (antiarrhythmic drugs).
(13) Analgesics testing (mice on hot plate).
(14) Experimental chemotherapy of infection in mice (Antibiotics against E.coli septicaemia)

**Summary of topics outline**

<table>
<thead>
<tr>
<th>Course code</th>
<th>(i) General principles (2 Credits; 30 hours)</th>
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<tbody>
<tr>
<td>413 (ii)</td>
<td>Chemotherapy –I (2 Credits; 30 hours)</td>
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<tr>
<td>412 (iii)</td>
<td>Chemotherapy – II (1 Credit; 15 hours)</td>
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<tr>
<td>421 (iv)</td>
<td>Autonomics, Autacoids and Ocular Pharmacology (2 Credits; 30 hours)</td>
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<tr>
<td>422 (v)</td>
<td>Neuropharmacology and Psychopharmacology (3 Credits; 45 hours)</td>
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<tr>
<td>423 (vi)</td>
<td>Systemic Pharmacology – II (5 Credits; 75)</td>
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<tr>
<td>511 (vii)</td>
<td>Systemic Pharmacology – II (4 Credits; 60 hours)</td>
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<tr>
<td>521 (viii)</td>
<td>Special Topics (5 Credits; 75 hours)</td>
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<tr>
<td></td>
<td>- Toxicology (2 Credits)</td>
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<td></td>
<td>- Clinical Pharmacology (2 Credits)</td>
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<td>- Prescription writing and Drug Abuse (1 Credit)</td>
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</table>
Practical Pharmacology (1 Credit; 45 hours)

**Total Credits:** 25 (360 hours Lectures; 45 hours Practicals)

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**Department of Psychiatry**

**LECTURES IN PSYCHIATRY**

<table>
<thead>
<tr>
<th>DATE</th>
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<th>LECTURE TOPICS</th>
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<td>9-10</td>
<td>Personality Disorder</td>
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<tr>
<td>Date</td>
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<tr>
<td>22-8</td>
<td>Mon</td>
<td>3-4</td>
<td>Signs and Symptoms of Psychiatric Disorder</td>
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<td>Tues</td>
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<td>Substance Related Disorder</td>
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<td>Mood disorder</td>
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<td>24-8-05</td>
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<td>11-12</td>
<td>Schizophrenia and other Psychotic Disorders</td>
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<td>25-8-05</td>
<td>Thur</td>
<td>9-10</td>
<td>Development of Psychiatry with emphasis on Nigeria</td>
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<td>25-8-05</td>
<td>Thur</td>
<td>3-4</td>
<td>Schizophrenia and Psychotic Disorders</td>
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<td>26-8-05</td>
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<td>9-10</td>
<td>Psychiatric Emergencies</td>
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<tr>
<td>29-8-05</td>
<td>Mon</td>
<td>3-4</td>
<td>Disorder of Memory</td>
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<td>30-8-05</td>
<td>Tues</td>
<td>9-19</td>
<td>Disorders of Perception</td>
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<td>30-8-05</td>
<td>Tues</td>
<td>3-4</td>
<td>Disorders of Emotion/Feelings</td>
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<tr>
<td>31-8-05</td>
<td>Wed</td>
<td>3-4</td>
<td>Disorders of Sleep</td>
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<td>01-9-05</td>
<td>Thur</td>
<td>9-10</td>
<td>Geriatric Psychiatry</td>
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<td>Thur</td>
<td>3-4</td>
<td>Anxiety Disorder</td>
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<td>08-9-05</td>
<td>Thur</td>
<td>9-10</td>
<td>Psychotherapy- Behaviour/Cognitive</td>
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<td>15-9-05</td>
<td>Thur</td>
<td>9-10</td>
<td>Sexual Disorders and the Paraphilins</td>
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<td>Thur</td>
<td>3-4</td>
<td>Community and Forensic Psychiatry</td>
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<td>19-9-05</td>
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<td>21-9-05</td>
<td>Wed</td>
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<td>Child and Adolescent Psychiatry</td>
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**Department of Radiology**

**Academic Staff**

<table>
<thead>
<tr>
<th>NAME</th>
<th>QUALIFICATION</th>
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<tbody>
<tr>
<td>Dr. O.M. Omorogbe</td>
<td>MBBS FWACS</td>
<td>Associate Lecturer</td>
</tr>
<tr>
<td>Dr. Benker-Coker</td>
<td>MBBS, FWACS</td>
<td>Associate Lecturer</td>
</tr>
</tbody>
</table>

The teaching of Radiology is included in the relevant clinical subjects. A posting in Radiology takes place in The Fourth year. The course is taught during the 12 weeks of
Special Postings. Students are required during this period to rotate for a specific TWO WEEKS period in Radiology.

**OBJECTIVES**
At the end of the course in Radiology the student should have acquired knowledge, skills and attitudes that will enable him or her to:
1. Describe the principles of radiological diagnosis and its uses in medicine
2. Be acquainted with the technical procedures available in this field
3. Describe the principles of therapy and their applications in the management of diseases
4. Be aware of the limitations and implications of these procedures for health.
5. Describe the means of clinical investigation using radioactive material

**Mode of Instruction**
1. Didactic lectures
2. Demonstrations
3. Tutorials
4. Clinical Attachment

**Teaching Aids**
1. Audio visual aids
2. Clinical Models
3. Simulations
4. Radiology Equipments
   - CT Scan Machine
   - Mammography Machines
   - Lithotripsy Machine
   - Ultrasoundography Machine

**Evaluation**
1. End of Posting Examination
2. Final Examination in Medicine includes Radiology
3. Final Examination in Surgery includes Radiology

**Clinical Attachment**

<table>
<thead>
<tr>
<th>Day</th>
<th>CT SCAN</th>
<th>USS</th>
<th>GENERAL RADIOLOGY</th>
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<tr>
<td>Monday</td>
<td>Group 1</td>
<td>GP 2</td>
<td>G3</td>
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<td>Wednesday</td>
<td>GP 3</td>
<td>GP 1</td>
<td>GP 2</td>
</tr>
<tr>
<td>Thursday</td>
<td>Revision demonstration</td>
<td>Dr. Marchie</td>
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<td>Friday</td>
<td>Test</td>
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<td>Dr. Akhigbe</td>
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## SPECIAL POSTINGS: RADIOLOGY

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<tr>
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<tr>
<td>Monday</td>
<td>Respiratory Radiology</td>
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<tr>
<td>Tuesday</td>
<td>Radiation protection</td>
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<td>Wednesday</td>
<td>Cardiovascular radiology</td>
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<tr>
<td>Thursday</td>
<td>CNS radiology</td>
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<tr>
<td>Friday</td>
<td>Seminar</td>
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<tr>
<td>Monday</td>
<td>GI radiology</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Renal radiology</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Skeletal radiology</td>
</tr>
<tr>
<td>Thursday</td>
<td>Seminar Ultrasound in medicine</td>
</tr>
<tr>
<td>Friday</td>
<td>Seminar Ultrasound in medicine</td>
</tr>
</tbody>
</table>

**NB:** You are to have 75% attendance in your lectures and demonstration, for you to be qualified to be signed off in Radiology.

You are also expected to attach yourselves to clinical duties during your posting during which you sign for procedure you observed or assisted in.
Department of Surgery

COURSE OBJECTIVE

- The *raison d'etre* of the Department of Surgery are Teaching, Research and Service to the Community.
- These duties will ultimately be based on well-recognized Surgical specialty units.
- Each such unit will be headed by a senior academic surgeon of Professorial rank and contain several Consultant Surgeons all of whom should hold senior academic appointments in the College of Health Sciences of Igbinedion University and Residents undergoing Postgraduate training.
- Currently there is one global General Surgery Department (encompassing Gastroenterology, Surgical Oncology, Traumatology and Plastic Surgery & Burns. There is currently one Senior Registrar in the department. The resident doctors and medical officers in Central Hospital Benin also participate actively in teaching our students.

AIMS OF THE DEPARTMENT

The Surgical Department aims to satisfy the following:

Provision of appropriate teaching and learning experience for undergraduate medical students on specialty basis to satisfy the requirements, Regulation and Syllabus for the MB BS degree examinations of Igbinedion University and in keeping with the Regulations and Standards of the relevant regulatory bodies:

- The Medical and Dental Council of Nigeria
- The National Universities Commission.

1. To use the surgical units as nuclei for the establishment of Postgraduate Surgical Training Programs of such standard as to satisfy the requirements of relevant National and International Surgical Specialty Examination Boards and Programs.

2. Provision of an appropriate academic programs and environment as to enable Lecturer/Consultants and Residents carry out meaningful research and publish in well recognized areas of specialization.

3. Provision of the highest quality surgical service to the community in keeping with available specialties in the lofty tradition expected of a University Teaching Hospital.

DEPARTMENTAL ACTIVITIES

The Department of surgery is engaged in the following activities:

1. Outpatient clinics
2. Daily working ward rounds
3. Teaching ward rounds
4. Minor surgical sessions
5. Major surgical sessions
6. Clinico-pathological Grand Ward Rounds
7. Teaching Hospital Global Continuing Education Rounds
8. Undergraduate lectures
9. Undergraduate tutorials
10. Undergraduate seminars

OBJECTIVES OF THE UNDERGRADUATE GENERAL SURGERY COURSE

The undergraduate general surgery course consists of:

1. Introduction to Surgery  8 WEEKS
2. Junior Posting  16 WEEKS
3. Special Posting in Surgical Subspecialties  12 WEEKS
4. Senior Posting  16 WEEKS

MODE OF INSTRUCTION TO STUDENTS

Instruction is carried out through

1. Lectures
2. Seminars
3. Tutorials
4. Practical Demonstrations
5. Bedside Teaching Ward Rounds
6. Grand Clinico-pathological Rounds

Teaching Aids

5. Audio visual aids
6. Clinical Models
7. Simulations
8. Telemedicine

OUTCOME EXPECTATIONS OF THE TEACHING PROGRAM

It is expected that at the end of the course in surgery, the student will have acquired the knowledge, skills and attitudes that will enable him/her to:

1. Achieve a basic understanding of the general principles and philosophical underpinnings of general surgery.
2. Obtain a good history from the surgical patient and record them systematically.
3. Perform a systematic physical examination, elicit surgical physical signs and record them accurately.
4. Describe the common surgical diseases systematically including their etiology, symptoms, signs, relevant investigations, treatment, prognosis, and complications.
5. Use all relevant data obtained to construct an appropriate differential diagnosis and then arrive at a rational diagnosis.
6. Be aware of the common and other laboratory diagnostic aids which may help in reaching or verifying the diagnosis.
7. Predict and present with empathy to the patient and his relatives, the most probable prognosis of the disease diagnosed.
8. Recognize the common surgical emergencies, be able to prevent them where possible, manage them rationally if possible or refer them, by the best available means, safely and in good condition.
9. Be aware of the available specialized surgical, therapeutic and advanced technological devices that may help in the management of different surgical conditions.
10. Manage the surgical patient by the most appropriate means, resorting to operative intervention considered necessary, aiming always at curing the patient in the shortest possible time, alleviating his pain, prolonging his life, preventing complications and above all causing no harm through omission.
11. Perform common minor surgical procedures and be able to help effectively as an assistant in the management of surgical diseases.
12. Be aware of the ethical and legal consequences of surgical intervention and all the required precaution necessary to avoid complications.
13. Work within a health team and be able, when necessary, to be its leader.
14. Commit himself or herself to a life long goal of continuing education and training.

CLINICAL WARD POSTINGS

1. PATIENT ASSIGNMENT
   - Students will be assigned in small manageable groups for the purpose of tutorials and demonstrations.
   - Each group will elect a GROUP CAPTAIN whose duties shall include:
     i. Allocation of patients admitted to the care of the unit
     ii. He/she will liaise with the Resident and the Ward Sister to ensure that all admitted patients are assigned to students in his group.

2. LECTURES, TUTORIALS AND SEMINARS
   - The topics for lectures and tutorials is shown on page ----
   - The topics cover the required core material for undergraduate surgical education.

3. STUDENT CASE PRESENTATION & RECORD KEEPING
   - Students must obtain history and perform physical examination
   - Students must record the obtained history legibly, and submit them to the designated clinician for critical checking and marking.
   - All such clerking and all notes must be signed legibly and countersigned by the clinician in charge.
   - Finally the students must acquire the habit and ability to present their patients concisely and precisely to the supervising consultant.

4. OUTPATIENT CLINICS
   - The outpatient clinic provides a very important opportunity for teaching/learning.
• Students are expected to attend, examine, clerk and discuss patients in the outpatient clinic.

5. EMERGENCY CALL DUTY
• Students are “on call” on rotation basis as assigned by the group captain.

• This call duty provides an unparalleled opportunity for clerking patients admitted on emergency basis, and for participation in their management.

6. OTHER DUTIES
• Irrespective of the medical specialty a student may ultimately choose, acquisition of certain basic skills is mandatory.
• Many of these skills are not generally included in didactic demonstrations or lectures but must nevertheless be learned by the student and be signed up and graded for these experiences.

• Among these skills are venipuncture, intracath insertion and intravenous infusion, folley catheter placement, nasogastric intubation, gastric washout, suture of minor lacerations under local anesthesia, proctoscopy etc.
• Familiarity with these procedures will be mandatory for all students.

7. OPERATING SESSIONS AND TECHNICAL SKILLS
• Although not expected to know details of operative techniques, students will be encouraged to participate in all operations on their assigned patients.

• Students must be familiar with the indications, principles of some operations, the surgical anatomy of the area operated on, and the complications that can occur.
• Exposure to the operating room environment, the opportunity to observe the pathology in situ has an ameliorating influence on medical education. Accordingly this will be a mandatory requirement for all students.
• In order to participate more fully in the operative event, students will be encouraged to practice suture techniques and knot tying outside the operating room as operating time cannot be used to teach students these essential skills.
• Students will also be encouraged to look up the relevant anatomy of the area to be operated on prior to attending the operation. This increases understanding and fixes the material learnt.

METHOD OF ASSESSMENT

EXAMINATIONS
• A written examination, a clinical and an oral examination will be the tools for testing the student’s understanding of the material covered in the lectures, tutorials, demonstrations, conferences, and ward rounds.
• Students will be evaluated on the quality of their ward work, performance on ward rounds, tutorials, Seminars and in the operating room.
• Pass mark is 50%
• There will be a minimum of 4 Continuing Assessment Examinations during the entire course in General Surgery as follows:
- **Introductory course**: End of Posting examination.
- **Junior Posing**: First test in the middle of the course; 2nd test – End of Posting examination.
- **Senior Positing**: Two Continuous Assessment tests:
  - 1st - in the middle of the course.
  - 2nd - End of Posting exam which shall be a Mock Final Examination. The mock test shall consist of
    - Parts 1 & 2 Theory papers,
    - Practical (Long and Short cases)
    - Orals.

- Marks obtained at the continuous assessment examinations will be collated and will count as **30%** of the score for the final MB BS examination in Surgery.

### Built in Self Assessment

Student answers in all continuous assessment examination are used as an excellent measure of the level and effectiveness of instruction.

### Final MBBS Examination in Surgery

In keeping with policy of the University, the Medical and Dental Council of Nigeria and the National Universities Commission, External Examiners from the Departments of Surgery of other universities in Nigeria and abroad shall be involved in the final MB BS examinations of the department. External Examiners will examine the course contents, quality of the examination questions, evaluate the student answers, participate in the marking and collation of results, and all other sundry events leading up to the conclusion of the final examination in Surgery.

Examinations shall be conducted along the guidelines of the College of Health Sciences of Igbinedion University and the Medical and Dental Council of Nigeria. All academic staff shall be fully involved in all aspects of the examination.

The final Examination in Surgery shall be the Final MB BS Examination in Surgery. It shall consist of
- Theory Papers 1 & 2,
- Clinicals
  - Long case,
  - Short cases,
  - Orals.

### SURGERY SYLLABUS

The Syllabus of the Department of Surgery covers the requirements for teaching/training undergraduate students in Surgery for the MB BS degree of the Igbinedion University in keeping with the regulations the Guidelines on Minimal Standards of Medical and Dental Education of the Medical and Dental Council of Nigeria.
## Surgical Courses

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<thead>
<tr>
<th>Course No.</th>
<th>Units</th>
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<tbody>
<tr>
<td>SUG 401</td>
<td>3</td>
<td>Introduction to Surgery</td>
</tr>
<tr>
<td>SUG 402</td>
<td>4</td>
<td>General Surgery</td>
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<tr>
<td>SUG 403</td>
<td>3</td>
<td>Congenital Abnormalities and Endocrinology</td>
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<td>SUG 404</td>
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<td>Plastic Surgery &amp; Burns</td>
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<td>SUG 501</td>
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<td>Solid Tumors and other Neoplasms</td>
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<td>Cardio-thoracic including Vascular Surgery</td>
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<td>SUG 506</td>
<td>2</td>
<td>Ophthalmology</td>
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<td>SUG 507</td>
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<td>Orthopedics</td>
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<tr>
<td>SUG 601</td>
<td>3</td>
<td>Special Topics in Surgery</td>
</tr>
<tr>
<td>SUG 602</td>
<td>4</td>
<td>Rural Posting</td>
</tr>
</tbody>
</table>

### COURSE CONTENT

**SUG 401**  
Introduction and approach to the surgical patient  
The surgical history and surgical physical examination

**SUG 402**  
Skin lesions; Wounds; Ulcers, *Sinuses, Fistulae, Inflammation, Gangrene, Wound Healing and Dressing

Wound Infection; Gram positive pyogenic cocci, Gram negative bacilli; Anaerobic infections; Clostridial infection; Tetanus; Gas Gangrene; Sterilization of instruments, Investigation of post operative fever. Wounds; Ulcers, Sinuses, Fistulae, Inflammation, Gangrene, Wound Healing and Dressing; Hernias

Metabolic response to injury; Shock; Hemorrhage; Hemostasis; Blood Transfusion; Fluid, Electrolytes, acid-base balance; Parenteral nutrition.

**SUG 403**  
Breast abscess, Nipple discharge, Benign Tumors of the breast, malignant tumors of the breast, Salivary gland tumors, Sialadenitis, salivary gland calculi  
Differential diagnosis of neck swellings, Goiters, Thyrotoxicosis, Carcinoma of the thyroid thyroiditis, Thyroid function tests, Surgical aspects of hypertension, Phaeochromocytoma, Cushing’s disease, Apudoma, Insulinoma, Hyperparathyroidism.

**SUG 404**  
Gastrointestinal pathology; Hematemesis, melena, hematochezia, Physiology of gastric secretion, Gastric function tests, Complications of gastric surgery; Peptic ulcer;
Small and large intestinal obstruction; Volvulus, Intussusception; 

Colostomy; Ileostomy; Fecal fistula; Umbilical discharge; Ruptured spleen. Blunt abdominal trauma; Ascitis;

Gallstones, surgical jaundice; bile duct strictures. Pancreato-duodenal carcinoma. Panreatitis. Subphrenic abscess, Liver abscess, surgical complications of Amoebiasis; Typhoid, Appendicitis; Tuberculosis of the abdomen. Differential diagnosis of acute abdomen; Non surgical causes of acute abdomen

Rectal bleeding; Anal pain; Ano-rectal abscesses. Fistulo in ano; Pruritis ani; hemorrhoid, anorectal abscesses, rectal prolapse.

Inflammatory bowl disease, diverticulitis, Colorectal polyps and carcinoma.

Blunt abdominal injury; Penetrating abdominal injury.

SUG 405 Urological conditions; Hematuria, investigation of the urinary tract, Renal, Ureteric and Bladder stone, bladder tumors

Retention of urine, benign prostatic hypertrophy, urethra stricture, carcinoma of the prostate

Anuria, Renal Failure, Hydronephrosis, Renal tumors Perinephric abscess Circumcision, undescended and maldescended testis, congenital anomalies of the kidney, hypospadias, vesioco-ureteric reflux; schistosomiasis and bladder cancer; lesions, ulcers hydrocele.

SUG 406 Plastic surgery and burns; Hare lip, Cleft palate, thyroglossal cyst branchial cys. Burns, skin graft, Keloids, Hypertrophic scars, peripheral nerve injuries, Hot and Cold burns.

SUG 501 Surgical oncology: Tumors in general, Classification, Modes of spread, Cytotoxic chemotherapy, irradiation. Immunotherapy; Hormone therapy (ablative and additive); terminal care in inoperative malignancy. Solid tumors; benign and malignant.

Reticuloses, Hodgkin’s disease, Lymphosarcoma. Carcinoma of the stomach; Gastrointestinal tract; Primary and secondary liver tumors; tumors of the reticuloendothelial system e.g. Burkitt’s lymphoma.

SUG 503  Pediatric surgery. Tracheo-esophageal fistula, congenital hypertrophic pyloric stenosis; intestinal atresia and stenosis.

Hirschsprung’s disease, Rectal anomalies, Intussusception, urogenital anomalies in infancy and childhood. Congenital anomalies particularly the more manageable lesions of gut, exomphalos, atresia and anorectum.

SUG 504  Neurosurgery. Head injury; Common intracranial disorders; subdural hematoma; cerebral abscess and other causes of raised intracranial pressure.

SUG 505  ENT. Otitis, Epistaxis, Tonsilitis, Sinusitis, Nasal and oroharygeal tumors, tracheostomy; foreign body.

SUG 506  Ophthalmology; Conjunctivitis, uveitis, Glaucoma, Red eye, Cataract, Tumors of the eye

SUG 507  Orthopedics and traumatology. Osteomyelitis, hand infection, septic arthritis, bone and joint TB, melanoma; club foot and other obvious skeletal deformities. Poliomyelitis, peripheral nerve injury, low back pain, sciatica, Bone tumors, Osteomalacia, Rickets, Osteoporosis, Trauma, multiple injuries, Organization of the Accident and Emergency (Traumatology Unit), Mass casualty Chest injury: flail chest, pneumothorax; tension pneumothorax Hemopneumothorax. Urinary tract injury; Ear, Nose and Throat injuries Vascular injury; Maxillo-facial injury; Spinal injury, tendon injury.

Classification of Fractures, Complications of fractures
Principles of fracture management. Common fractures of the upper limb, lower limb, pelvis, shoulder girdle, vertebra, spine, hips knees, ankle, elbow, wrist, hands and feet, Plaster of Paris techniques, Bandaging and Elastoplast, Splinting, Rehabilitation, physiotherapy, and Occupational therapy.

SUG 601  Special Topics in Surgery; Immunology of transplantation, Kidney, Liver, Heart and lung transplants, dialysis.

SUG 602  Rural Posting.

INTRODUCTORY POSTING IN SURGERY

<table>
<thead>
<tr>
<th>LECTURES</th>
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<tbody>
<tr>
<td>LECTURE TOPICS</td>
</tr>
<tr>
<td>Introduction to Surgery: The Surgical Patient</td>
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<tr>
<td>Surgical History 1</td>
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<tr>
<td>Surgical History 11</td>
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<tr>
<td>Physical Examination</td>
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<tr>
<td>Examination Head, Eyes, Nose and Throat</td>
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</table>
32. Anorectal Diseases 1  2HOURS
33. Anorectal Diseases 2  2HOURS
34. Introduction to Urology: Anatomical Overview
35. Diseases of the Kidney 1
36. Diseases of the Kidney 1
37. Diseases of the Ureter
38. Diseases of the Urethra: Hypospadias, Posterior Urethral Valve
39. Bladder Neck Obstruction: Urethral Obstruction
40. Bladder Neck Obstruction: The Prostate Gland
41. Diseases of the Urinary Bladder
42. Miscellaneous Urological Diseases
43. Bladder Neck Obstruction: Urethral Obstruction
44. Pedictric Urology

**Special Postings in Surgery & Related Subjects**
1. Orthopaedics and Traumatology 2 Weeks
2. Otorhinolaryngology 2 Weeks
3. Ophthalmology 2 Weeks
4. Anaesthesia 2 Weeks
5. Radiology 2 Weeks

**SPECIAL POSTINGS IN SURGERY**

1. **ORTHOPAEDIC AND TRAUMATOLOGY**

<table>
<thead>
<tr>
<th>Week</th>
<th>Thursday</th>
<th>Friday</th>
<th>Initial Assessment and Management of Injured Patient (2 periods)</th>
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</thead>
<tbody>
<tr>
<td>1st</td>
<td>2 – 4pm</td>
<td>12 – 1pm</td>
<td>Fractures in General (I)</td>
</tr>
<tr>
<td>2nd</td>
<td>2 – 4pm</td>
<td>12 – 1pm</td>
<td>Initial Ass. And Management Continues (2 periods)</td>
</tr>
<tr>
<td>3rd</td>
<td>2 – 4pm</td>
<td>12 – 1pm</td>
<td>Fractures in General contd. (1 period)</td>
</tr>
<tr>
<td>4th</td>
<td>2 – 4pm</td>
<td>12 – 1pm</td>
<td>Head Injury (2 period)</td>
</tr>
<tr>
<td>5th</td>
<td>2 – 4pm</td>
<td>12 – 1pm</td>
<td>Bone and Joint Infections (1 period)</td>
</tr>
</tbody>
</table>

2. **OTORHINOLARYNGOLGY (ENT)**
<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Topic</th>
</tr>
</thead>
</table>
| 26/10/05 - Wed. | Anatomy of the Ear  
                       | Symptoms of ear disease  
                       | Otitis externa                                    |
| 7/11/05 - Monday | Acute suppurative Otitis media  
                       | Chronic suppurative otitis media                       |
| 9/11/05 - Wed. | Deafness                                                                 |
| 14/11/05 - Monday | Anatomy of the nose & paranasal sinuses  
                       | Acute Rhinitis                                         |
| 16/11/05 - Wed. | Chronic Rhinitis  
                       | Allergic Rhinitis                                      |
| 21/11/05 - Monday | Epistaxis                                                                            |
| 28/11/05 - “ | Anatomy of tonsils and adenoids  
                       | Acute tonsillitis                                      
                       | Chronic tonsillitis                                    
                       | Apendiod Hypertrophy                                    |
| 5/12/05 - “ | Tracheostomy                                                                            |
| 7/12/05 - Wed. | Foreign bodies in ear, nose & throat                                           |
| 14/12/05 - Wed. | End of posting test.                                                           |

**SPECIAL POSTINGS IN SURGERY**

**3. OPHTHALMOLOGY**

<table>
<thead>
<tr>
<th>TOPIC</th>
<th>TIME</th>
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</thead>
<tbody>
<tr>
<td>Anatomy of the Eye</td>
<td>9 – 11am</td>
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<tr>
<td>Physiology of the Eye</td>
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<tr>
<td>Cataract</td>
<td>2 – 4pm</td>
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<tr>
<td>Visual Pathways &amp; Pupillary</td>
<td>2 – 4pm</td>
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<tr>
<td>Light Reflexes</td>
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<tr>
<td>Glaucoma</td>
<td>9 – 11am</td>
</tr>
<tr>
<td>Diseases of the lids &amp; Conjunctiva</td>
<td>2 – 4pm</td>
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<tr>
<td>Disease of the Cornea</td>
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<tr>
<td>Accommodation and its Anomalies</td>
<td>2 – 4pm</td>
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<tr>
<td>Refractive Errors</td>
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<tr>
<td>Pan Ophthalmitis</td>
<td>9 – 11am</td>
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<tr>
<td>Methods of Eye ball removal</td>
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<tr>
<td>Tropical Eye Diseases</td>
<td>2 – 4pm</td>
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<tr>
<td>Uveitis</td>
<td>2 – 4pm</td>
</tr>
</tbody>
</table>
Ocular Injuries

Causes of sudden & Gradual Loss of Vision 2 – 4pm

Common ocular malignancies (Retinoblastoma, Lids, Uveal Tract) 2 – 4pm

The Eye in Systemic Diseases (Hypertension, Diabetes, Thyroid diseases, HIV/AIDS, Measles, SSD, Nutritional Diseases, Myasthenia Gravis) 2 – 4pm

**SENIOR SURGICAL POSTING**

<table>
<thead>
<tr>
<th>S/No</th>
<th>TOPICS</th>
<th>LECTURER/SIGNATURE</th>
<th>DATE</th>
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<tbody>
<tr>
<td>1</td>
<td>Appendicitis</td>
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<td>Peptic Ulcer, Zollinger Ellison Syndrome</td>
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<td>Gastric Tumors</td>
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<td>Hernia: Inguinal, Femoral, Umbilical, Epigastric, Lumbar, Spigelian</td>
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<td>Thyroid Disorders</td>
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<td>Intestinal Obstruction</td>
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<td>Intestinal Tumors</td>
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<td>8</td>
<td>Hemorrhoids, Anal Fissure, Fistulo-in-ano, Perianal abscess</td>
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<tr>
<td>9</td>
<td>Abdominal Trauma</td>
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<td>10</td>
<td>Cholelithiasis</td>
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<tr>
<td>11</td>
<td>Breast Diseases</td>
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<td>12</td>
<td>Pancreatitis</td>
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<td>13</td>
<td>Congenital Pyloric Stenosis Volulus</td>
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<td>14</td>
<td>Cleft Lip and Palate</td>
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<td>15</td>
<td>Hirschsprung’s Disease, Intussusception</td>
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<tr>
<td>16</td>
<td>Management of Fractures 1</td>
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<td>17</td>
<td>Management of Fractures 2</td>
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<tr>
<td>18</td>
<td>Septic and Tuberculous Arthritis, Perthe’s disease</td>
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<td>Infections of the bone, Club foot</td>
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<td>Bone tumors</td>
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<td>Hiatal Hernia; Reflux Esophagitis, Diaphragmatic hernia</td>
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<td>Disorders of the esophagus, Achalasia, Esophageal stricture, Oesoph cancer</td>
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<td>23</td>
<td>Venous Diseases, Lymphedema</td>
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<td>Chest Trauma, Pneumothorax, Hemothorax, Ca Bronchus</td>
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<td>Hemoptysis, Bronchiectasis, Lung abscess</td>
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<td>26</td>
<td>Congenital Heart Diseases</td>
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<td>Pancreatitis, Ca Pancreas, Hepatoma</td>
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<td>Common ENT Diseases 1</td>
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<td>Common Pediatric Surgical Problems 1</td>
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<td>38</td>
<td>Disorders of the Thyroid gland</td>
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<td>The Parathyroid, Thyroglossal duct cyst</td>
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<td>Common Eye Problems 1</td>
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<td>43</td>
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<tr>
<td>44</td>
<td>Common Neurosurgical Problems 2</td>
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## DEPARTMENT OF NURSING
### BACHELOR OF NURSING SCIENCE (B.N.Sc.) DEGREE CURRICULUM

### ACADEMIC STAFF LIST DEPARTMENT OF NURSING

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name of Staff</th>
<th>Sex</th>
<th>Specialty</th>
<th>Discipline</th>
<th>Qualifications Obtained with dates</th>
<th>Rank</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>3</td>
<td>Mr. C.C. Irodi</td>
<td>M</td>
<td>Medical Surgical Nursing</td>
<td>Nursing</td>
<td>M.ED 2009, B.Sc Nursing 1995, R.N. 1990</td>
<td>Lecturer II</td>
<td>Full-Time</td>
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<tr>
<td>7</td>
<td>Miss. Evbu Dele-Ogabeide</td>
<td>F</td>
<td>Nursing</td>
<td>RN, B.Sc NSG</td>
<td>Clinical Instructor</td>
<td>Clinical Instructor</td>
<td>Full-Time</td>
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**Clinical Instructor**
INTRODUCTION
The Bachelor of Nursing Sciences degree requires systematic acquisition of knowledge in the arts and sciences leading to the acquisition of the philosophical attitudes essential for professional Nursing practice. The BNSc program of Igbinedion University is professional as well as academic. It ensures that men and women who are genuinely interested in the Nursing profession are able to pursue an academic career like their counterparts in other disciplines.

The development of critical thinking skills through the study of Nursing theory, social and natural sciences and research, enables the individual to function as a professional for the provision of nursing care at primary, secondary and tertiary levels. The academic programme in Nursing of the Igbinedion University conforms to the motto of the University “Knowledge & Excellence”.

It is therefore designed to produce nurse practitioners that can understand the social, psychological, and physical factors involved in the promotion, maintenance and restoration of health and is able to translate these factors into health needs and relate them to the appropriate health services and the broader social system of the nation and beyond.

PHILOSOPHY
The philosophy of the department of Nursing Science of School of Clinical Medicine of Igbinedion University, Okada is in consonance with the philosophy of education in Nigeria and that of the Igbinedion University:

1. The nursing faculty believes that the Department of Nursing Science should have the greatest concern for service through high standards of scholarship and personal character. The ultimate purpose being the advancement of public welfare and culture through wider and deeper knowledge, finer skills, and broader appreciation of human values and the African cultural heritage.

2. The faculty believes that preparation for professional nursing should consist of liberal and professional education leading to a bachelor’s degree, and should take place within a university setting. Such a nursing programme should be an integral part of the university education programme, utilizing and supporting all the facilities and activities of the institution.

3. The Nursing profession believes that man is a bio-psychosocial being and his needs are the focus of all Nursing activities. Man is a member of a family and families make up the communities.

4. The faculty believes nursing is a process of interactions, which aims to assist the individual family and community in maintaining or establishing an optimal level of healthy living. The nurse is an inherent part of the transaction, which helps the individual, family and community to modify their patterns of daily living according to their requirements. The nurse does this through the use of the analytic-synthetic process, the application of technical skills and feeling responses, and in cooperation with other disciplines

5. The faculty believes that a health team in which the individual, the family and the community play significant roles is the most effective approach to promotion, maintenance and restoration of health.

6. It is believed that a professional nursing programme should incorporate knowledge from the arts, sciences, humanities and nursing in order to ensure
sound professional training, to stimulate research and continued acquisition of new knowledge, to promote individual self development and to advance public welfare. Therefore, there should be an orderly progression in learning.

7. Professional Nursing education is built upon the theoretical base that seeks to develop continually self-directed practitioners who will advance and test knowledge on which practice is based. Current health care demands require an innovative approach in professional preparation and a curriculum that is responsive to the needs of the society.

AIMS OF THE DEPARTMENT
1. To uphold the academic standards stipulated by the Igbinedion University, Okada
2. To provide a milieu conducive to learning and practicing of quality nursing care
3. To graduate professional nurses capable of providing high quality nursing care to individuals, families and communities of diverse background and in a variety of social and cultural settings nationally and globally
4. To assist students in learning to solve problems by exposing them to problem situations and by solving them in research projects
5. To provide professional nurse practitioners who will be intellectually stimulated to continually improve their practice skills through the utilization of research findings and a commitment to self development.

CURRICULUM OBJECTIVES:
By the end of the academic programme in Nursing, the undergraduate is expected to:-
1. Integrate concepts and principles from the biological, social, physical and nursing sciences in the provision of comprehensive nursing care.
2. Function effectively independently and in collaboration with other members of health and related sectors.
3. Utilize the nursing process and other tools of nursing in assisting individuals, families and groups adapt to changing health needs.
4. Formulate a theoretical framework that is applicable to the nursing care of clients at the three levels of health care by using tenets from relevant sciences.
5. Incorporate the medical plan of care into nursing activities to achieve the objectives of the dependent, interdependent and independent functions of the nurse.
6. Contribute to the improvement of nursing practice by participating in interdisciplinary research, utilizing the research process and publishing research findings in nursing practice situations.
7. Appreciate the influence of culture and habits on the health status of clients and utilize this knowledge in developing clinical skills and teaching.
8. Utilize the principles of management in the administration of health care facilities and personnel.

COMPETENCIES OF THE GRADUATE:
By the end of the academic programme, graduate will
1. Function dependently, interdependently and independently at the three (primary Secondary and Tertiary) levels of care, giving high quality nursing services to clients utilizing appropriate concept, models and tools of nursing practice.
2. Utilize nursing process to assess, plan, implement and evaluate nursing care needs of the individual patient, the family and the community.
3. Demonstrate clinical skills in the implementation of care using knowledge derived from the physical, social, biological and nursing sciences.
4. Maintain quality assurance and uphold accountability in professional practice.
5. Plan and implement formal and informal teaching for clients and other health personnel using appropriate principles of teaching and learning.
6. Function in an expanded role within the health team in the management of human and material resources and evaluating impact of care intervention strategies.
7. Initiate and conduct nursing research and utilize findings to improve nursing practice.
8. Participate in collaborative research with others for improving the health of population.
9. Demonstrate an appreciation of the need for improving self and others through active participation in continuous education programme.
10. Develop positive attitudes to recognize the essential worth of the individual through her/his interpersonal responses.
11. Show commitment to nursing profession and sense of responsibility for self direction and personal growth.

REGULATIONS GOVERNING ADMISSION INTO B.N.Sc. DEGREE PROGRAM

1. MATRICULATION REQUIREMENTS
Candidates seeking admission to pre-degree courses in Medicine at the College of Health Sciences of the Igbinedion University must satisfy the general entry requirements of Igbinedion University as well as special entry requirement for BNSc degree:

(A) Entry into 100 Level
The admission requirements are as follows:
1. Pass at the Joint Admission and Matriculation Board Examination plus
2. Igbinedion University Screening Examination/Interview plus
3. Pass at Credit level in five subjects: English language, Mathematics, Physics, Chemistry and Biology at G.C.E. (Ordinary level), West African School Certificate, (or Equivalent examinations) at not more than two sittings from same examination body.

(B) Direct Entry into 200 Level
REQUIREMENTS FOR DIRECT ENTRY TO BACHELOR OF NURSING SCIENCE DEGREE
Candidates for direct entry to 200 Level in BNSC must:

a. Satisfy the matriculation requirements as stated for candidates seeking admission into the degree course as stated above. PLUS
b. Passes at Advanced Level G.C.E. or H.S.C. in Physics, Chemistry and Biology (or Zoology) at not more than two sittings OR
c. Registered Nurse /Midwifery Certificate and five credits at ordinary level G.C.E. or SSCE which must include English Language, Mathematics and the followings Physics, Chemistry and Biology at not more than two sittings from same examination body.
d. Any post-basic nursing diploma is an added advantage.

(C) TRANSFER TO B.N.Sc
i. Transfer from others faculties of this or other Universities:
After successfully completing a B.Sc degree course in Biological Sciences/Basic or pure sciences in part or whole in this or any other university, a candidate may be considered for admission into part II of the B.N.Sc. degree of this University provided such a candidate satisfies the appropriate admission requirements as prescribed in (A 3) above.

ii. A candidate form B.N.Sc. degree programme of other recognized universities may be allowed to transfer into the programme after the Faculty has been satisfied that the candidate has genuine reason for applying for transfer and has met all the criteria for transfer into the programme. However, such transfer student shall be admitted at a level to be determined by the faculty but not higher than 300 level

EXAMINATION REGULATIONS
In addition to the regular University Regulations the following shall apply to the B.N.Sc. Programme.

1. At the beginning of each course, there may be a pre-test. This test is to provide information for both the teacher and the students on the level of previously acquired knowledge.

2. Diagnostic tests and continuous evaluation will feature in all courses. The purpose being to evaluate the progress of the students in relation to the objectives of each course and provide feedbacks to enable students adjust their learning pace. The results of the above tests shall not be recorded towards the final evaluation of the students.

3. All courses in this programme are CORE except General studies (GST) and Computer (CSC) courses which may be carried over and passed anytime before graduation.

4. For all clinical nursing courses from Part II to Part V, the course work shall constitute 60 percent. This is due to the importance of the clinical content of the nursing courses. The course is made up of course examinations, continuous assessment by observational rating, practical and clinical assessment, assignments and patient care studies.

5. There shall be a final examination in each course. The final examination for each course will normally consist of theory paper in addition to a practical /clinical examination with or without oral examination. Each course final examination shall be conducted immediately after the course according to University Examination Regulations.

6. A student shall only be allowed to sit a any examination in a course on the condition that she/he has attended at least 75 percent of classes and clinical experiences, and completed all assignments and paid all prescribed fees as stipulated by the University.

7. The pass mark for all courses in parts one and two shall be 40% as applicable to University grading system except nursing courses, while all other courses from part three to five shall be 50%.

Weighting of Examinations
8. Parts I & II – Weighting of all examinations shall be as applicable in the various faculties/departments for the courses with 40% as pass mark.

9. Pass mark for Part II courses in the College of Health Sciences (except nursing course) will also be 40% and re-sits for courses shall apply to the B.N.Sc students as obtained in the College.

10. All students at 100 – 200 levels shall have opportunity to do summer school if the CGPA is above 1.0

11. Any student whose CGPA is below 1.0 shall withdraw from the programme.

12. A candidate at 100 level who fails more that two core courses after summer school shall repeat the year.

13. A candidate at 100 level who fails one or two core courses after summer school shall carry over to 200 level.

14. No candidate shall carry over any core course to 300 level or to any further levels.

15. All sessional courses with parts 1 and 2 shall have in-course examination at the end of first semester and end of course examination at the end of second semester.

16. From part III – V Summer school will be only for candidate who fail 1 or 2 core courses and any failure leads to repeat the year and failure in repeat year earns withdrawal from programme.

**Weighting shall be as follows:**

Part III – V: All courses except where specific situations are reflected shall follow this format.

**One Theory Paper 3 hours**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>Essay</td>
<td>40%</td>
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<tr>
<td>Objective</td>
<td>60%</td>
</tr>
<tr>
<td>Course work</td>
<td>40%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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</table>

OR

**One Theory Paper 3 hours**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essay</td>
<td>40%</td>
</tr>
<tr>
<td>Objective</td>
<td>60%</td>
</tr>
<tr>
<td>Course work</td>
<td>20%</td>
</tr>
<tr>
<td>Clinical/Practicals</td>
<td>30%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</table>

**NSC 452**

- Teaching and Management Practical 100%

**Part V**

**NSC 541**

- One Theory paper 3 hours

<table>
<thead>
<tr>
<th>Component</th>
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</thead>
<tbody>
<tr>
<td>Essay</td>
<td>40%</td>
</tr>
<tr>
<td>Objective</td>
<td>60%</td>
</tr>
<tr>
<td>Seminar Presentation</td>
<td>40%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>
17. All clinical nursing specialties – Medical -Surgical Nursing, Maternal & Child Health Nursing and Midwifery, Psychiatric & Mental Health Nursing as well as Community Health Nursing shall follow same schedule of examination weighting at the end of each session as follow:-

<table>
<thead>
<tr>
<th></th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Theory Paper 3 hours</td>
<td>60%</td>
</tr>
<tr>
<td>Essay</td>
<td>40)</td>
</tr>
<tr>
<td>Objective</td>
<td>60) (60%)</td>
</tr>
<tr>
<td>Course work</td>
<td>40% (100%)</td>
</tr>
<tr>
<td>Project/case studies</td>
<td>100% (10%)</td>
</tr>
<tr>
<td>Practical/Clinical</td>
<td>90)</td>
</tr>
<tr>
<td>Orals</td>
<td>10) (100% = 40%)</td>
</tr>
</tbody>
</table>

18. MODERATION OF EXAMINATIONS
External Examiners shall moderate examinations at all levels. However, since all courses at 100 and 200 levels are taken outside the department (except FON) moderation shall be done in all such departs. External Examiner(s) shall therefore moderate examinations in the department from 300 to 500 level. Such examiner(s) must come for the moderation of 400 and 500 levels since clinical and oral examination at both levels are involved.

19. AWARD OF DEGREE
The degree shall be awarded to candidates who have complied with the general regulations of the University and the additional requirements of the B.N.Sc. Degree Programme.

For any candidate to graduate from this programme, he/she must have taken and passed All relevant courses in this curriculum. He/she must also have taken and passed general nursing qualifying examination of the N&MCH.

Cumulative grade point average (CGPA) for the award of the degree shall be calculated from year two to five. Percentage contribution to the final grading shall be as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year II</td>
<td>10%</td>
</tr>
<tr>
<td>Year III</td>
<td>20%</td>
</tr>
<tr>
<td>Year IV</td>
<td>35%</td>
</tr>
<tr>
<td>Year V</td>
<td>35%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>

20. Degree Format
The degree shall be awarded with first class honours, second class honours (upper or lower) and third class as follows:

<table>
<thead>
<tr>
<th>CGPA</th>
<th>CLASSIFICATION</th>
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<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First Class</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>Second Class (Upper Division)</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second Class (Lower Division)</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>Third Class</td>
</tr>
<tr>
<td>Less than 1.50</td>
<td>Fail</td>
</tr>
</tbody>
</table>
21. **Professional Examination**

Students shall be presented for the following Professional Examinations as follows:-

1. **Indexing:** - Undergraduate students of the BNSc programme shall be presented for indexing at the beginning of 300 level having passed all parts I & II courses without any carry-over.

2. At the beginning of 500 level indexed students shall be presented for the N&MC of Nigeria final qualifying examination for General Nurses, having passed all Part IV courses.

3. A pre-qualify/screening examination using council's format and procedures shall be conducted by the department and only students who passed such examination shall be presented.

4. Presentation of students for the N&MC of Nigeria final qualifying examination for midwives shall be at the 2nd semester of 500 level either in March or September of that year provided that the result of final qualifying examination for general nurses that the students sat for had been passed.

5. Presentation of students for final BNSc degree examinations shall be on condition that the students have passed N&MC of Nigeria final qualifying examination for General Nurse and is registered and licensed by the Council.

6. Presentation of students for WAHEB for Public Health Nurses shall be after graduation through the department.

(C) **DURATION OF COURSE:**

The duration of the BNSc degree course is (5) five years for U.M.E. qualified candidates and (4) four years for Direct Entry and transfer candidates.

**SCHEDULE OF COURSES**

**100 LEVEL**

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>S/NO</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PHY 113</td>
<td>Thermal Physics</td>
<td>3</td>
<td>3</td>
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<tr>
<td>2.</td>
<td>“ 112</td>
<td>General Physics</td>
<td>3</td>
<td>2</td>
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<tr>
<td>3.</td>
<td>CHM 111</td>
<td>General Physical Chemistry</td>
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<td>2</td>
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<tr>
<td>4.</td>
<td>“ 112</td>
<td>General Organic Chemistry</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>5.</td>
<td>ZOO 111</td>
<td>Introductory Zoology 1</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>6.</td>
<td>BOT 111</td>
<td>Diversity of Plants</td>
<td>3</td>
<td>2</td>
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### SECOND SEMESTER 200 LEVEL

<table>
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<tr>
<td>1.</td>
<td>PHY 122</td>
<td>Modern Physics</td>
<td>3</td>
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<tr>
<td>2.</td>
<td>&quot;</td>
<td>Waves, Optics and Vibration</td>
<td>3</td>
<td>2</td>
<td>1</td>
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<tr>
<td>3.</td>
<td>CHM 122</td>
<td>General Organic Chemistry II</td>
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<td>CHM 121</td>
<td>General Inorganic Chemistry</td>
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<td>BOT 121</td>
<td>Plant Structure and Function</td>
<td>3</td>
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<tr>
<td>6.</td>
<td>ZOO 121</td>
<td>General Zoology II</td>
<td>3</td>
<td>2</td>
<td>1</td>
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<tr>
<td>7.</td>
<td>GST 121</td>
<td>Entrepreneurial studies</td>
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<tr>
<td>8.</td>
<td>GST 122</td>
<td>Philosophy, ethics, logic &amp; law</td>
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<tr>
<td>9.</td>
<td>GST 123</td>
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<td>10.</td>
<td>PHY 100</td>
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<td>3</td>
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<td>11.</td>
<td>MTH102</td>
<td>Mathematics</td>
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**TOTAL** | **26**

FON 1 – (2 wks) Pre 2nd Year Course NSG 200. Lectures

### FIRST SEMESTER 200 LEVEL

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<tbody>
<tr>
<td>1.</td>
<td>NSG 200</td>
<td>Foundation of Nursing I</td>
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<tr>
<td>2.</td>
<td>COM 201</td>
<td>Biostatistics</td>
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<td>3.</td>
<td>ANA 211</td>
<td>Gross Anatomy I</td>
<td>5</td>
<td>4</td>
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<td>Introduction to Histology</td>
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<td>PHS 201</td>
<td>Introd. to Gen.&amp; Excitable Physiology</td>
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<td>7.</td>
<td>BCH 211</td>
<td>Introduction to Biochemistry</td>
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<td>8.</td>
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<td>Nigerian government and Politics</td>
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<td>9.</td>
<td>CSC 113</td>
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</table>

**TOTAL** | **26**

**END OF FIRST SEMESTER** * Conc. Practical demonstration of NSG – 1 week

### SECOND SEMESTER 200 LEVEL
<table>
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<th>S/NO</th>
<th>CODE</th>
<th>TITLE</th>
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<tbody>
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<td>1.</td>
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<td>Gross Anatomy II</td>
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<td>Systemic Histology</td>
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<td>People and Cultures of Africa</td>
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<td>8.</td>
<td>BCH 212</td>
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</table>

**TOTAL** 22

Pre-Part III * Conc. Clinical Posing Med-Sug Nursing (8 weeks)

**FIRST SEMESTER 300 LEVEL**

<table>
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<tr>
<th>S/NO</th>
<th>CODE</th>
<th>TITLE</th>
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<th>P</th>
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<tbody>
<tr>
<td>1.</td>
<td>NSG 301</td>
<td>Human Behaviour in Health/Disease</td>
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<tr>
<td>2.</td>
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<td>303 Medical Surgical Nursing I</td>
<td>8</td>
<td>6</td>
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<td>3.</td>
<td>“</td>
<td>305 Community Health Nursing I</td>
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<td>4.</td>
<td>NSG 307</td>
<td>Man, His Family &amp; Environment</td>
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<td>5.</td>
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<td>Nutrition &amp; Applied Dietetics</td>
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<td>6.</td>
<td>PCO 312</td>
<td>General Principles of Pharmacology</td>
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<td>7.</td>
<td>NSG 317</td>
<td>Nursing Ethics &amp; Philosophy</td>
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**TOTAL** 24

END OF FIRST SEMESTER Comm. Health Nursing Posting (2 weeks).

**SECOND SEMESTER 300 LEVEL**

<table>
<thead>
<tr>
<th>S/NO</th>
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<tr>
<td>1.</td>
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<td>Developmental Psychology Applied to Nursing</td>
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<td>304 Medical Surgical Nursing II</td>
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<td>306 Maternal and Child Health Nursing I</td>
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<td>PCO 423</td>
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<td></td>
<td>( GIT,Resp, Renal, Cardiovascular)</td>
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<td>6.</td>
<td>PATH 312</td>
<td>General Cellular Pathology &amp; Cytology</td>
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**TOTAL** 23

- During Semester: CHN/MCH (4 weeks)
- PRE-PART IV Concentrated Clinical (Med. Surg. 6 weeks) * Clinical Posting (MCH) (4 weeks)

**FIRST SEMESTER 400 LEVEL**

<table>
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<th>CODE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>1.</td>
<td>COM 403</td>
<td>Principles of Epidemiology &amp; Disease Control</td>
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</table>
2. NSG 401 Medical Surgical Nursing III 8 6 0 8
3. " 405 Curriculum Dev. & Teaching Methodology 3 3 0 0
5. " 407 Psych/Mental Health Nursing I 4 3 0 4
6. " 409 Maternal and Child Health II 4 3 0 4
7. ECO 417 Health Economics 3 3 0 0

TOTAL 25
- During semester – 6 weeks (end of semester) M.C.H. clinical posting.
- End of semester University Exams after posting

SECOND SEMESTER 400 LEVEL

<table>
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<td>NSG 402</td>
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TOTAL 21
- During semester 6 weeks Psychiatric/ Mental Health Nursing (Beginning of 2nd Semester)

FIRST SEMESTER 500 LEVEL NMCN General Nursing Qualifying Exams

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<tr>
<th>S/NO</th>
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TOTAL 22
- During semester MCH posting – 6 weeks (End of semester – beginning of 2nd semester)
- Midwifery Exam in March.

SECOND SEMESTER 500 LEVEL

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6. ONE ELECTIVE

TOTAL 4 3 0 4

- During semester CHN posing – 8 weeks
- Special elective Posing – 4 weeks

500 LEVEL SPECIAL ELECTIVES IN NURSING

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<tr>
<th>No.</th>
<th>Course Code</th>
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<tr>
<td>1.</td>
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</table>

Any one of these must be taken each semester at 500 level as acceptable to the department.

NOTES SPECIFIC FOR B.N. SC STUDENTS

1. The B.N.Sc programme runs continuously from 200 level to end of programme i.e. lectures, laboratory demonstrations and clinical postings and Examinations during semesters and University Holidays shall run continuously
2. All professional examinations are to be processed by the department and students shall be responsible for the cost. This is outside the regular university fees etc.
3. Professional rules and regulations, ethics, uniforms, full attendance at clinical postings, clinical assessments and projects are to be complied-with by all students.
4. Appropriate sanctions will be applied to defaulters which may include suspension from attending clinical posting etc.

SUMMARY OF TOTAL UNITS – 5 YRS PROGRAMME

<table>
<thead>
<tr>
<th>Year</th>
<th>Lecture &amp; Lab Practical During Semester</th>
<th>Clinicals built into Nursing courses</th>
<th>Concentrated Clinicals during Vacations</th>
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### COURSE DESCRIPTION

**FIRST YEAR (100 LEVEL)**

**1ST SEMESTER**

**PHYS 113 – Thermal Physics:** (3 units)

**PHY 112 – General Physics** (3 units)

**CHEM 111 – General Physical Chemistry** (3 Units) Plus Practical

**CHEM 112 – General Organic Chemistry I** (2 Units)

**ZOO 111 – Introductory Zoology (3 Units)**
Man population growth and the impact on the biosphere, Faunal biodiversity.Invertebra; protozoa, coelenterata, platyhelminthes, annelida, mollusca, arthropoda, Vertebra;cephalochordata, pisces, amphibian, reptilia, aves, mammalia, Mammalian anatomy;anatomy of rattua rattus.

**BOT 111 – Diversity of Plants:** (3 Units)
Introduction to plant science: Diversity of living organisms, habitats, life forms, mode of nutrition, size, shape etc. Elements of ecology and common features of living organisms.; Nomenclature and classification. Plant cells, function of organelles. Brief survey of viruses, bacteria, PPLO; General survey of plants in the five kingdoms, highlighting their life cycles and evolutionary relationship.
GST 111 – Use of English & library (2 Units)
As in department of English.

GST 112 – Nigerian History and Culture (2 Units)
The course is designed to examine the effect of environmental factors on the health of the community. Community assessment and action to improve the quality of the environment is emphasized. Man and his physical environment. Environmental factors that affect health; noise, gas pollution, waste products, air, and water. Environmental sanitation: waste disposal, vector control, housing, and water supply. Food hygiene.
Rural-urban migration. As in the course outline for university

SAA 111 – Introduction to Sociology (4 Units)
It is designed to provide knowledge about the social interaction of persons and groups, analysis and principle of group lines, the processes of socialization, social structure including family, race, relations social class and social change.

SECOND SEMESTER

CSC 113 – Computer Application (3 Units)
General introduction to Computer Science, Computer Hardware, History of Computers, Generation of Computers, Evolution and types of Computers, Classification of Computers, Architecture, data representation in memory, Typical computer configuration. Computer software (History and Generation, Software types programming, Languages and features, Introduction to Windows and DOS operating system), Programming Steps, Organization chart of computer system, Categories of Computer application, Use of computers, Advantages and Disadvantages of computers, Introduction to word processing, Data communication (Basic concept & methods, Computer networks, Internet and Email concept), Data processing (Properties, type of processing, Batch processing ), Number representation (Binary mathematics, Number conversion), Computer viruses and protections.

PHY 122 – Modern Physics I Plus practical (3 Units)
Atomic nature of matter, discovery of electron quantization, of electricity, (millikan’s experiment) cathode rays, measurement of electric charge, specific charge (e/m);
Structure of the atom, atomic models-Thompson’s model; Rutherford’s nuclear model. Bohis model: the hydrogen atom. The nuclear: structure of the nuclear; size binding energy of the nuclear; binding fraction; packing fraction. X-rays-production and property of x-rays, application of x-rays; x-ray diffraction; Braggs equation; x-ray spectra (continuous and line spectra ) Moseley equation and application. Planck quantum theory; de-brag lies hypothesis wave particle duality. Radioactivity – natural and artificial radioactivity; detection of radiation.

PHY 123 – Waves, Optics and Vibrations (3 Units)
Waves – types, characteristics and propagation of waves in material medial.
Vibrations in solids; propagation of sounds in solids, liquids and gas. Sound wave.
Wave theory of light; polarization of light. Rectilinear propagation of light reflection, refraction; mirrors; lenses; lense combinations, optical instruments. Doppler effect. Echo; Sound ranging ultrasonic and application of these.

**CHM 122 – General Organic Chemistry II (2 Units)**

**CHM 121 General Inorganic Chemistry (3 Units)**
Periodic Table and periodic properties. Chemical bonding and thory. Hybridization structure of solids. The chemistry of selected representative elements. Qualitative analysis. 45h (T)

**BOT 121 Plant Structure and Function (3 Units)**
This course is designed to familiarize the student with activities of living things, the cell its general structure and activities, viruses, chromosomes, prokaryotic and eukaryotic cells. Fungi and algae etc., General structure anatomy and physiology of the stem, root, leaf and flower and floral diversity

**ZOO121 General Zoology II (3 Units)**
This course is designed to explore the structure and function of animals and to extrapolate to human’s relevant findings. It includes animal embryology, development and metabolic physiology. The physiology covers vertebrates and invertebrates

**GST 121 – Entrepreneurial studies. (2 Units)**
As in division of general studies student handbook of IUO.

**GST 122 Philosophy, ethics, logic, and law. (2 Units)**
As in division of general studies student handbook of IUO

**GST 123 – History and science (1 Unit)**
As in division of general studies student handbook of IUO.

**MTH 102 – Mathematics (2 Units)**
The course is designed to enable the students acquire knowledge of general mathematics necessary for mathematical calculations in the practice of nursing.
- **Numbers:** Natural numbers, integers, rational numbers, bases, operational with surds, ratio, proportion and percentage
- **Graphs:** The cartesia plane, plotting of a graph form a table of values and graphical treatment
- **Geometry:** Angles and parallel line construction on loci, angle, properties of circle, measurement, perimeter circumference, surface areas, volume

**SECOND YEAR (200 LEVEL)**

**FIRST SEMESTER**

**NSG 200 – Foundation of Nursing I (3 Units)**
The course provides knowledge about Nursing as an art and science, Health and Disease, Health Care Delivery System, Trends in Nursing History and Nursing Education, Philosophies of Nursing, Professionalism, Nursing Etiquettes and Ethics Basic Concepts and Nursing Care, Admission and Discharge, Bed making and appliances, Positioning, Bed bathing and Oral Care, Vital signs, etc
COM 201 – Bio-statistics: (2 Units)
The course introduces the student to the statistical process and various statistical methods in common use. It deals with the collection, compilation, analysis, presentation of data, and the drawing of conclusions from statistical analysis. Cumulative distributions measures of location and regression. Simple concepts of probability distribution and density. Basic inference about population, mean estimation and test based on large and small samples.

ANA 211 – Gross Anatomy I (Upper & Lower limbs) (5 UNITS).
This covers Bones, Joints, Muscles, Blood vessels, Nerves,

ANA 212 – Introductory Histology (2 UNITS)
Introduction to the cellular system and tissues of the body
- Epithelium
- Connective Tissues
- Muscles
- Nerves
- Blood
- Skeletal tissues
  Tissue preparatory techniques

ANA 213 – General Embryology (2 Units)
Introduction to Embryology, Male and Female Genital Systems, Gametogenesis, Spermatogenesis and structure of sperm, Oogenesis and structure of the ovum, Uterine cycle and ovarian cycle, development of the graafian follicles and ovulation, Fertilization, cleavage, morula, Blastocyst formation, Formation of Bilamina Disc, Amniotic cavity, yolk sac, Implantation, Trilamina layer, Intra embryonic Coelom Formation, Formation of human embryo, Primitive streak, Sommites, Blood and vessel formation, Folding of the embryo, Germ layer derivatives, Method of measuring embryonic age.

PHS 201 – Introduction to General and Excitable Tissue Physiology (5 Units).
Introductory to cell structure and function, Transport system, Osmosis, Diffusion and active transport, Homeostasis, Control system and feedback mechanisms, Introduction to body fluids and electrolyte compartments, Excitable and contractile cells, e.g Nerve structure, action potential, muscle structure, excitation contraction coupling

BCH 211 Introduction to Biochemistry (2 Units)
Importance of Biochemistry to other scientific disciplines, Structure of the cell, Cell organelles, Cell types, Integration of cellular functions, Analytical techniques in Biochemistry, Cell fractionalization, Chromatography, Electrophoresis, Centrifugation, Spectrophotometry, Solution, Osmotic pressure, Acids and Bases, pH and Buffers, Chemical Kinetics, Revision of basic chemistry.

POLS 211 – Nigerian Government & Politics I (3 Units).
The course introduces the student to social organization and mechanisms of government. It stresses the needs and problems of politics as they affect Nigeria, Africa and the health professions.
Introduction to political science and African politics dependence, struggle for independences of African States. Politics in Africa as it affects the development of African people and the health profession. Nigerian politics as it affects Nursing profession. Elements of
Administration, rule of law, role of the executive, legislature and the judiciary. Political parties pressure groups. The role of the media

SECOND SEMESTER

NSG 200 – Foundation of Nursing II (3 Units)
It provides the foundation of the nursing process and the utilization of scientific principles in the practice of Nursing, Nursing care plan. Prevention and control of infection, Health education. Simple Diagnostic Test, Hospitalization, Pain, Stress, Body fluids and electrolytes, Maintaining safe environment, Ward cleaning, Asepsis, Feeding an ill patients, Care of the dying and last offices.

ANA221–Gross-Anatomy-II (5 Units)
Gross anatomy of the thorax, abdomen, pelvis, and perineum.

ANA 222 Systemic Histology (2 Units)
Gastrointestinal system, Respiratory, Lymphoid organ, Skin and its appendages, Urinary tract, Cardiovascular system.

ANA 223 Systemic Embryology (2 Units)
Placenta, Fetal membranes and body cavities, Diaphragm, Development of the body system.
   a. Respiratory system
   b. Cardiovascular system
   c. Gastrointestinal system
   d. Urinary system
   e. Endocrine system
      Bronchial and Pharyngeal apparatus, Muscular system, Skeletal system, Integumentary system, Nervous system, Chromosomal Anomalies.

PHS 203 – Respiratory, Renal and Gastrointestinal physiology (4 Units)
This course introduces the students to respiratory physiology, functions, pulmonary ventilation and function test, acid base balance and control for respiration. Physiology anatomy of the kidney, glomerular filtration rate, counter current mechanism, rennin-angiotensin-aldosterone mechanism and micturition. Structure and innervation of Gastrointestinal system, Gastrointestinal hormones, Deglutton and Digestion, Absorption of water, electrolyte and Nutrients.

MCB 206 – Medical Microbiology and Parasitology (3 Units)
The course covers the study of the characteristics and classification of microorganisms. It enable the student identify infective agents that cause disease in man and to apply the knowledge of disease processes in terms of personal and communal health.
Introduction to microbiology, characterization and classification of bacteria. Morphology, Physiology, reproduction and metabolism of bacteria.

SAA 227 People and Culture of Africa (2 Units)
The study and criticism of ethnographic description of African societies, people and their culture both as scientific reporting and as literary art form. Emphasis will be on the comparative and contrasting analysis of kingship, marriage, local groupings, economic, political and religious cosmologies value systems and philosophies and the problems.

BCH 212 Nutrition and Metabolism (3 Units)

300 LEVEL
FIRST SEMESTER

NSG 301 – Human Behaviour in Health and Disease (2 Units)
Characteristics of the family in health and disease. The Germ Theory as a way of explaining the concept of disease. Demography and population dynamics. Patterns of life in the Community and how these are affected by disease. How patterns of life and community organization affect health care delivery.

NSG 303 – Medical-Surgical Nursing I (8 Units)
The course is designed to enable the students acquire in-depth knowledge of medical-surgical problems and to identify her role as a professional nurse in the care of adults and children with medico-surgical problems in the primary, secondary and tertiary settings of health care. Experience is provided in the care of selected individuals and families to facilitate the transfer of theory to nursing practice situation. Theoretical models of care are emphasized. Pathophysiology of medico-surgical problems. Integumentry & Musculoskeletal Systems Dimensions of nursing practice, the nursing process levels of health care. Theories, concepts and principles of care:

NSG 305 – Community Health Nursing I (3 Units)
The course utilizes the social systems theory in the provision of community health care. Application of principles of epidemiology is emphasized in the maintenance of optimum wellness. The social system theory. Analysis of the family and significant others. Assessment of the community – environmental and community health services. Philosophy, components and principle of primary health care settings. Development of physical assessment skills. Assessment of the family. The interrelationship of social and physical environment on health. Organization and coordination of community health services.

NSG 307 – Man, The Family and Community (3 Units)
The course is designed to enable the students acquire knowledge of the socio-cultural development of man, the family and the community, it emphasizes the interaction between the community and the environmental forces that affect health. The importance of culture, the family and kinship is considered in the evaluation of population dynamics. The individual, family and kinship is considered in the evaluation of population dynamics. The individual, family community and civilization. Culture, race, ethnicity and communication.
Environment: rural urban, demography and population dynamics. The role of the nurse in demographic data collection.

Fertility: family type and size


COM 305 – Nutrition and Applied Dietetics (2 Units)
The course describes nutrition in health and illness with emphasis on food classification, nutritional values of common Nigerian foods, culture and nutrition, breastfeeding and weaning practices
Also covered are infection and nutrition, food hygiene and toxicology as well as nutrition education.

Applied dietetics I
Diet in the aetiology and management of various diseases. (Kwashiorkor, Marasmus, Vitamin Deficiencies, Mineral Deficiencies, Obesity, Hypervitaminosis etc.)

Applied Dietetics II
Diet in the aetiology and management of diseases (Diabetes, Essential Hypertension, Coronary Heart disease, liver failure, goiter, myxoedema, cretinism, dental caries, anemia)
Assessment of nutritional status of community.

PC 0312: General principle of pharmacology (2 Units)
The scope of pharmacology; Origin and sources of Drugs, routes of Administration of drugs; Biotransformation of Drugs; Excretion of drugs; Biotransformation of Drugs; Mode of Action of Drugs; Types of Drug Action; Drug Action in Man; Compliance; Individual Variations; Presence of other drugs; Genetic Effects; Tolerance and Tachypylaxis; Effects of Diseases; Drug Toxicity; Adverse Drug reaction

NSG 317: Nursing Ethics and Philosophy (3 Units)
This course is designed to enable the student identity nursing ethnics as a component of medical ethnics in her practice as a member of the health team. It introduces the student to the status and common law as they affect the nursing profession and nursing practice. It enables her to develop a personal philosophy of nursing.

Philosophy of nursing practice
Ethical considerations and dilemmas
Nursing ethics as it relates to the health team
Ethical/moral principles
Professional ethics and constraints imposed by institutions
The health care system and individual rights: informed consent, abortion, dying and death, behaviour control.
Discussion of ethical dilemmas
The nurse as an advocate

SECOND SEMESTER

NSG 302 – Developmental Psychology as applied to Nursing (2 Units)
Emphasis is on growth and development of the individual from conception to senescence and their parameters of measurements; individual differences and their assessment; learning-
memory thinking; sensation and perception, motivation; emotions and personality. An in-depth study of the psychological aspects of man and the family and further application of psychological concept and theories to nursing.

**NSG 304 – Medical-Surgical Nursing II**  (3 Units)
The course is designed to build upon the content covered in NSG 303 and to expand the knowledge based on disease processes as they affect the systems of the body. Concept of cellular growth and proliferation, medical care and scientific nursing management of clients with specific acute and chronic ailments. Dynamics of fluid and electrolyte balance. Concept of metabolism: disturbances of ingestion, digestion and elimination, hepatic functioning, glucose metabolism and hormonal disturbances. Concept of oxygenation and hormonal disturbances of oxygen carrying mechanism, blood pumping mechanism and vessel disruptions. Concept of perception and co-ordination. Vascular and inflammatory disturbances. Nurses’ role in the operating theatre, intensive care unit, ward and clinic situation.

**NSG 306 – Maternal And Child Health Nursing I**  (3 Units)
The course deals with the health of the family during its child bearing and child rearing years, emphasizing the needs of mother and the newborn during the maternal cycle, the role of the nurse in family planning and genetic counseling. History of maternal and child health nursing. National and International. The reproductive phase of the life cycle. Obstetric and gynecological conditions. Family planning and family health. Application of the nine tenets of P.H.C. Child welfare and school health programmes. Family health care.

**NSG 306 – Maternal and Child Health Nsg I (3 Units)**
History of MCH – National and international, pregnancy, antenatal care, disorders of pregnancy
Review of anatomy and physiology, female reproductive system, normal and abnormal labour, health of the family during child bearing years

**COM 302- Environmental Health**
The course introduces students to the scope of environmental health, components of environmental sanitation, water, food hygiene, housing and disposal of wastes. Socio-Cultural factors in health and illness, Disease causation in environment and control of Lazzards.
It also covers control of vectors, air hygiene and control of atmospheric pollution. Accidents and disaster management as well as environmental health legislations and occupational health. Community assessment and measures to improve community health

**PCO 323: SYSTEM PHARMACOLOGY**  (4 Units)
- Cardiovascular
- Renal
- Gastro intestinal (GIT)
- Respiratory
(a) GIT pharmacology ( 1 credit) (including hypolipidaemic drugs)
  Vomiting – antiemetics, constipation – purgatives
Antacids – anticholinergics – \( \text{H}_2 \) receptor antagonists – Ulcer healing drugs; gastrointestinal hormones – Pentagastrin – Secretin, Non specific antidiarhoeal Drugs; lactulose, lipid disorders, cholestyramine, pancreatic, cholecystokinin, hypolipidaemic drugs

(b) Respiratory Tract Pharmacology (1 credit)
Oxygen therapy, bronchodilator drugs; asthma, cardiobronchial asthma; status astmaticus; cough suppressants; mucolytics agents; respiratory stimulants

c) Renal Pharmacology (1 Credit)
diuretics, alteration of urinary pH, Urinary Tract Infections, Renal Failure, immunity; immuno-suppresive agents in kidney transplant; heamodialysis treatment

d) Cardiovascular Pharmacology (1 credit)
Heart Failure and its drug management; Antianginal Drugs; Ischaemic Heart Disease and its Drug management; Antiarrhythmic Drugs; Hypertension and its drug management; vasodilators

PATH 312 – General Cellular Pathology and Cytology (3 Units)
The course covers general mechanisms, the pathogenesis of disease and the dynamic nature of disease as it evolves from its incipient stage to its full expression. The effect of disease on organs and distant parts of the body are discussed. Pathology and the nature of disease. Chemistry of cell damage and the dying cell. Inflammation and infection. Inflammatory response and chemical mediators. Immunity and cellular immune response. Principles of repair and re-organization of cell structure.

400 LEVEL
FIRST SEMESTER

COM 403: PRINCIPLES OF EPIDEMIOLOGY AND DISEASE CONTROL
The course is designed to expose students to definition and history of epidemiology, diseases and their determinants. Principle and control of disease control, uses of epidemiology, levels and epidemiological transition. Infective agents and risk factors in epidemiology of communicable and non-communicable diseases. Also covered will be epidemiological methods, management information system in disease surveillance and screening.

NSG 401 – MEDICAL-SURGICAL NURSING III (8 Units)
This course focuses on special areas in medico surgical Nursing such as ophthalmic (eye) ear, nose and throat (E.N.T) Dermatological conditions. Nervous system disorders. Also included are care of patients with abdominal growths and special therapies.

NSG 405 – CURRICULUM DEV. IN NURSING & TEACHING METHODOLOGY (3 Units)
Curriculum Development involves an over view of course, thereby the student looks at the course critically and objectively as a functional instrument. It involves the development of institutional philosophy, objectives, course contents, resources and personnel selection, methods of teaching, organization of teaching materials and evaluation.

NSG 407 – MENTAL HEALTH AND PSYCHIATRIC NURSING (2 Units)
The course aims at providing students with psychopathological basis of mental illness including symptomatology process and resolution. Various categories of mental illness and their management will be discussed.
NSG 409 – Maternal and Child Health Nursing II (4 Units)
The course further emphasis on the health of the family during child rearing period with particular attention to the needs of the child. The role of the nurse in family planning and genetic counseling is emphasized. The course covers all aspects of normal midwifery.

NSG 409 (4 Units)
Care of the newborn, Pueperium, Family planning, Child Growth and Development, child welfare, family health and Genetic counseling

ECO 417: Health Economics
The course covers a wide variety of topics and issues in Health Economics. The objective of the course is to familiarize the students with a body of economics theory, techniques and empirical studies that is helpful in arriving at rational decisions with respect to resources allocation development and the contrasts on resources availability, better understanding of the behaviour of the health care system from the economic perspective and serve to improve the effectiveness of public policy in the health sector.

SECOND SEMESTER

NSG 402 – MANAGEMENT OF NURSING CARE SERVICES (2 Units)
The course of designed to introduce the student to the philosophy theory; principles and techniques of management of Nursing care services. Essential tools for the management of Nursing care and the evaluation of response to care will be discussed. Introduction to Management: Philosophy, purpose and objectives. The health care delivery system: (National and International). Tools of management, Communication and interpersonal relationships. Interviewing skills concepts of guidance and counseling. Elements of nursing management Standards of nursing practice. Management of human and material resources, budgeting and staffing supervisory process. Concepts of evaluation, of clinical setting. Accountability and the role of research in practice.

NGS 404 – RESEARCH METHODOLOGY (3 Units)
The course is designed to create awareness of the need for research as a means for improving Nursing care. The student is assisted to acquire the basic skills and knowledge required of a researcher and to conduct simple studies in her Clinical area of practice. Introduction to research methodology, the role of research in health and social welfare institution versus problem solving and the scientific approach. Research Designs: Application of principles of data collection; analysis and interpretation interaction and utilization of research findings utilization of research methodology for individual and group research projects. Review of selected studies in the health care industry.

NSG 406 – TEACHING/MANAGEMENT PRACTICE (2 Units)
The course enables the student to utilize the principles and techniques of teaching and management, in health care settings. Opportunity is given for health education at the primary secondary and tertiary levels of healthy care

NSG 412 – MEDICAL-SURGICAL NURSING IV
NSG 410 – MATERNAL AND CHILD HEALTH NURSING III (6 Units)
The course builds on MCH I and deals with obstetric and Gynecological conditions, application of PHC and school health programmes for the achievement of healthy maternal and child health abnormal midwifery and conceptional abnormalities of the newborn

500 LEVEL
FIRST SEMESTER

NSG 501 – COMMUNITY HEALTH NURSING II (6 Units)
Community health nursing and its integration into the health care system. The role of the community health nurse. Meeting the health needs of the community. The handicapped, social drop-outs. Problems of the aged. Health administration in the community. The use of the standing orders. The geriatric patient care, beggars, migrants, prostitution and refugees

NSG 503 – Maternal and Child Health Nursing IV (8 Units)
The course is designed to enable students transfer the theoretical knowledge of MCH to nursing growth and development. It also includes deomicilliary midwifery practice and family health care.

NSG 504 – Research Project I (4 Units)
The course is designed to create awareness of the need for research as a means for improving nursing care. The student is assisted to acquire the basic skills and knowledge required of a researcher and to conduct simple studies in her clinical area of practice. Introduction to research methodology, the role of research in health and social welfare institution versus problem solving and the scientific approach. Research designs: Application of principles of data collection; analysis and interpretation interaction and utilization of research findings utilization of research methodology for individual and group research projects. Review of selected studies in the health care industry.

NSG 507 – Special Topic Seminar I (1 Unit)
The course is designed to enable students identify issues and trends in nursing and health care. In-depth knowledge is derived through literature review and interaction with members of the health team. Seminar presentations will be done

NSG 502 – COMMUNITY HEALTH NURSING III (6 Units)
The course builds on community health nursing II with emphasis on organization and co-ordination of community health services, it also covers health education, occupational health nursing, and oral rehydration therapy. It finally deals with the use of nursing process in community health assessment, diagnosis, intervention and evaluation

NSG 518 – Mental/Psychiatry Health Nursing II (4 units)
This course deals with preventive mental health (primary, secondary and tertiary). It involves the knowledge of the roles of the traditional healers in the society and the effects of urban-rural migration on mental health. The course also deals with the typology of crises, crises intervention and planning of community mental health programme

NSG 505 – Research Project II (4 Units)
Students are guided in the development and carrying out research studies by individual students
NSG 516 – ENTREPRENUERSHIP IN NURSING (2 Units)
This course is designed to introduce students to the principle and practice of entrepreneurship. Opportunity for self-employment in nursing services including attitudes and skill of entrepreneurs are developed in this course. The course include planning, programming, implementation and evaluating nursing services to meet communities needs.

NSG 508 – Special Topic Seminar II (1 Unit)
This builds on special topic seminar I with further discussions centered around application of the biological, social, psychological and nursing theories and concepts in analyzing and discussing the contemporary nursing issues.

ACADEMIC STAFF LIST DEPARTMENT OF NURSING, IGBINEDION UNIVERSITY OKADA

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<tr>
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<tr>
<td>1</td>
<td>Ojo Adeleke A</td>
<td>M</td>
<td>Medical Surgical Nursing</td>
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<td>Teachers Grade III certificate, 1963</td>
<td>Professor</td>
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<td>Mr. Osagide, James</td>
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<td>Mr. Fanakinwa, T. Timothy</td>
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<td>Community Health Nursing</td>
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<td>Miss Onasoga olaniyka . A.</td>
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<td>Dr. (Mrs.) F.O. Adeyemo</td>
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<td>Miss. Mekomah, Helyn Unoma</td>
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<td>General Nursing Community Health Nursing</td>
<td>Nursing</td>
<td>Registered Nurse (RN) 1997 Registered Midwife (RM) 2000 Bachelor of Science (B Sc) 2004 Registered Public Health Nurse (RPHN) 2006</td>
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<td>General nursing Community health nursing</td>
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<td>Registered nurse 2005 Registered midwife 2006 B.N.sc nursing 2006</td>
<td>Nursing officer 1 (clinical instructor)</td>
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ACADEMIC STAFF IN SERVICE DEPARTMENTS WITHIN THE COLLEGE OF HEALTH SCIENCES
Office of Dean, Basic Medical Sciences

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<tbody>
<tr>
<td>1</td>
<td>L.O. Magbojikwe</td>
<td>B.Sc. Biochem (Sokoto) 1984; M.Sc Biochem (Ibadan) 1988 Ph.D Biochem (Jos) 2000</td>
<td>Acting Dean</td>
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DEPARTMENT OF ANATOMY

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<tr>
<td>1</td>
<td>Prof. S.B. Lagundoye</td>
<td>M.B.BS (London) 1961; DMRD (1966); FMCER (1970) FWACS (1980); FICS (1989); FRMR (1993)</td>
<td>Professor</td>
<td>FT</td>
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<tr>
<td>2</td>
<td>Dr. S.A. Adebiyi</td>
<td>B.Sc (Calabar) 1988; M.Sc (Ife) 1992; Ph.D (Zaria) 2002</td>
<td>Reader</td>
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<td>3</td>
<td>Dr. Osa Peter Ogundigie</td>
<td>B.Sc (Metu) 1993; M.Sc Biol (Metu) 1985; Ph.D Med. Sci. (Hiroshima) 1995</td>
<td>Senior Lecturer</td>
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<td>Dr. Linus Chia Saalu</td>
<td>MB.BS; M.Sc., MPH</td>
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<td>Mr. Adesanya Olamide</td>
<td>B.Sc (Ife) 1992; M.Sc (Lagos) 1998</td>
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<td>Mr. Ude Ude Raymond A</td>
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<td>Miss Christiana Okuonu</td>
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<td>LRCPI; LRCSI; LLN (1955) DCH (Dublin); FMC Surgry (Nigeria); Ph.D (Ibadan; FASN (2006)</td>
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<td>Mr. Imosemi Innocent Ohiorenuman</td>
<td>B.Sc (Hons) Human Anatomy 1995; M.Sc Human Anatomy 2001</td>
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<td>Prof. M.A. Madusolumuo</td>
<td>B.Sc (Ife) 1977; M.Sc (Ife) 1983; PhD (Ife) 1992</td>
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<td>Mr. Josiah Sunday Joel</td>
<td>B.Sc (ABU) 1986; M.Sc (Ibadan) 1995</td>
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<td>Mr. E.S. Uhumwango</td>
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5. Mr. Anthony Ogbonaya  
B.Sc (  ); M.Sc (  )  
Asst. Lecturer  
FT
6. Mr. S.C. Nwangwu  
B.Sc (Awka) 1999;  
M.Sc  2004  
Asst. Lecturer  
FT
7. Mr. I.O. Omotuyi  
B.Sc Bioch. (Ilorin)  2003  
Graduate Asst.  
FT
8. Dr. N.P. Okolie  
B.Sc Bioch. (1983) Benin;  
Reader  
PT

DEPARTMENT OF PHYSIOLOGY

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<td>1.</td>
<td>Prof. A.A. Fasanmade</td>
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<td>Dr. C.O. Azubuike C.</td>
<td>M.Med. Sc. (Uni-Port) 1994 MBBS, (Uni-Port) 1988; M.Sc (Uni-Ben) 2000</td>
<td>Senior Lecturer/HOD</td>
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<td>Mr. D. Oshi</td>
<td>B. Med. Sc. (Uni-Port) 1990; MBBS (Uni-Port) 1994</td>
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<td>5.</td>
<td>Prof. A.C. Ugwu</td>
<td>B.Sc, M.Phil, Ph.D (Physiology)</td>
<td>Professor Cardiovascular Physiology</td>
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OFFICE OF DEAN

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<td>1.</td>
<td>Prof. L. C. Chiedozi</td>
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<td>Professor, Dean</td>
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<td>2.</td>
<td>Dr. F. E. Odiase</td>
<td>MBBS (Benin) 1969 FFARCS 1974 FMCS 1980 FWACS 1980</td>
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DEPARTMENT OF ANAESTHIOLOGY

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<tr>
<td>2.</td>
<td>Dr (Mrs) F. D. Asudo</td>
<td>MBBS, DA, FWACS</td>
<td>Snr. Lecturer</td>
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<td>3.</td>
<td>Dr. (Mrs) N. Aivboraye</td>
<td>MD; DA (1992)</td>
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<td>4.</td>
<td>Dr. (Mrs) B. A. Okonofu</td>
<td>B.Sc, BM.BCH. DA</td>
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DEPARTMENT OF COMMUNITY HEALTH

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<tr>
<td>1.</td>
<td>Prof. T. Daramola</td>
<td>B.Sc, (Virginia)1958; MD (Toronto) 1961; DPH (Toronto) 1964; FMCPH 1971; FWACP 1976</td>
<td>Professor &amp; Provost</td>
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<tr>
<td>2.</td>
<td>Prof. M.K.O. Padonu</td>
<td>MD (Leipzig) 1969; DPH (Toronto) 1972; M.H.Sc (Johns Hopkins) 1974; Cert. Health Planning (Johns Hopkins) 1974; Cert. Fam. Planning (Colorado) 1975; FACPM (USA) 1985; FWACP 1986; D.Sc (h.c., Sri Lanka) 1991; FMCPH 1993</td>
<td>Professor, HOD</td>
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<td>3.</td>
<td>Dr. Olorunfemi E. Amoran</td>
<td>MBBS (Ibadan) 1995;</td>
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</table>
| 1.  | Prof. I. A. O. Oforofuo | B.Sc. (Hons) London 1975  
M. Sc (Clin. Chem) London 1979  
Ph.D (Benin) 1987  
MRSC, C Chem (UK) 1980  
FIMLS(Special Clin. Chem.IK) 1980  
FIMLT (Nig) 1981; Chem Path | Professor  
HOD | FT |
| 2.  | Prof U. Oluoha      | FIMLS (UK) 1980  
M.Sc. (St. Andrews) 1980  
Ph.D, Biochem (Benin) 1992 | Professor | FT |
| 3.  | Dr. I. A. Yahaya    | MBBS 1982  
M.Sc (Chem Path) 2001  
FMCPPath 2002 | Senior Lecturer | FT |
| 4.  | Mr. A. T. H. Mokogwu | M.Sc. (Ibadan) 1993  
AIMLS (1985)  
FIMLS (Nig) 1999 | Lecturer I | FT |
| 5.  | Mr. C. I. Ikaraoha  | B.Sc Med Lab.Sci (Unical) 1997  
M.Sc. Chem Path (UI) 2002  
AIMLS (Nig) 1999 | Lecturer II | FT |
| 6.  | Dr. J. E. Aighangee | MBBS, M.Sc. Clinical Pathology | Lecturer II | FT |

**DEPARTMENT OF HEMATOLOGY**

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| 1.  | Dr. E. O. Imiere   | MBBS (Benin) 1997  
FMCPath 2006  
Haematology | Lecturer in charge | FT |
| 2.  | Dr. S. O. Abegunde | MBBS (Benin) 1999  
FMCPHPath 2006 | Lecturer I | FT |
| 3.  | Dr. G. N. Obazuaye | MBBS 1993  
FMCPHPath II 2002 | Lecturer I | FT |
| 4.  | Dr M. Eneolease    | MBBS; MCP | Lecturer I | FT |
### DEPARTMENT OF MEDICAL MICROBIOLOGY & PARASITOLOGY

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<td>1</td>
<td>Prof. I. A. Awogun</td>
<td>MPH 1976, M.Sc. 1977, Ph.D 1985</td>
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<td>2</td>
<td>Prof. D. A. Agbonlahor</td>
<td>FMLSCN (Nig) 1977, M.Sc. (Unilag) 1981, Ph.D (Unilag) 1984, FRCPath (London) 2003</td>
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<td>3</td>
<td>Prof. B. Adegboro</td>
<td>MBBS (Ibadan) 1973, Cert Bacteriology (Manchester) 1977, Cert Venereology (London) 1979, FMCPath 1979, FWACP Cert Immunol MD (Ibadan) 1982</td>
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<td>5</td>
<td>Dr. N. N. Shadali</td>
<td>AIMLT (Virology) 1975, FIMLT (Virology ) 1977, M.Sc. (Immunology) Atlanta University, GA 1985, Ph.D Microbiology (ABU) 1988, FBSN 1998</td>
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### DEPARTMENT OF MORBID ANATOMY

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<td>Dr. S. M. Shehu</td>
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<td>Dr. E. A. O Afolayan</td>
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### DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

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<td>Prof. L. N. Ajabor</td>
<td>MBBS. (Bristol) 1960 MRCOG 1966</td>
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**DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH**

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<td>2</td>
<td>Dr. C. S. Amiebenomo</td>
<td>FMC (Paed) 1986 Chief Consultant; FMC (Paed) 1986</td>
<td>Senior Lecturer</td>
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<td>3</td>
<td>Dr. N. O. Asemota</td>
<td>MD (Sophia) 1978 FMCPaed (1984)</td>
<td>Senior Lecturer</td>
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<td>4</td>
<td>Dr. Idowu Senbanjo</td>
<td>MBCh.B (Ago Iwoye) 1995 WAPMC 1998 MWACP 2001 FWACP 2004</td>
<td>Lecturer I</td>
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<td>5</td>
<td>Dr. E. I. O. Woghiren</td>
<td>MBBS (Ibadan) 1979 FWACS 1984</td>
<td>Lecturer I</td>
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<td>6</td>
<td>Prof. P. O. Abiodun</td>
<td>MD FAF Paed, FWACP, FMC Paed</td>
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**DEPARTMENT OF PSYCHIATRY**

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<td>Dr. (Mrs) O. F. Ihenyen</td>
<td>MBBS (Benin) 1981 FWAC Psych 1990</td>
<td>Senior Lecturer</td>
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<td>2</td>
<td>Dr. G. O. Eze</td>
<td>MBBS 1979 FWAC Psych 1994</td>
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<td>3</td>
<td>Dr. O. C. Ikeji</td>
<td>MD (Romania) 1984 FWAC Psych 1994</td>
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**DEPARTMENT OF SURGERY**
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<td>1.</td>
<td>Prof. L. C. Chiedozi</td>
<td>BA Hon 1964; MD 1969; DABS 1975; FACS 1981; FMCS, FWACS, FICS</td>
<td>Professor</td>
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<td>Prof. Vincent Onuora</td>
<td>MBBS (Ibadan) 1975; FRCSE 1982; FWACS 1987 FICS 1987</td>
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<td>3.</td>
<td>Dr. Hemraj Gupta</td>
<td>MBBS (Uni J &amp; K India) 1970 MD 1978</td>
<td>Senior Lecturer/HOD</td>
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<td>4.</td>
<td>Dr. O. Oboreimen</td>
<td>MBBS, FMCS 1964 FWACS 1996;</td>
<td>Senior Lecturer</td>
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<td>5.</td>
<td>Dr. I. Z. Asogun</td>
<td>MBBS (Benin) 1991 FWACS 2000; FICS 2004</td>
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<td>Dr. A. A. Udoise</td>
<td>MBBS (Benin) 1992; FWACS 2004</td>
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<td>7.</td>
<td>Dr. B. O. Uwadiae</td>
<td>MBBS (Benin) 1990; FRCISI 1999; Dip. Ortho Rehab (Dundee) 2004</td>
<td>Lecturer I</td>
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<td>10.</td>
<td>Prof. I. Evbuomwan</td>
<td>MBBS (India ) 1971; FRCS 1976; FWACS 1982; FICS 1987</td>
<td>Professor Pediatric surgery</td>
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<td>11.</td>
<td>Dr. A. Ihenyen</td>
<td>MBBS (Ibadan) 1972; FRCSI 1984; FWACS</td>
<td>Reader</td>
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**LIST OF ACADEMIC STAFF IN SERVICE DEPARTMENTS OF THE UNIVERSITY**

**College of Natural & Applied Sciences**

<table>
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<tr>
<td>1.</td>
<td>Prof. Odaibo, Alexander B.</td>
<td>Prof</td>
<td>Bio. Science</td>
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<td>Enobakhare, Dan A.</td>
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<td>Oranusi, Solomon (Dr.)</td>
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<td>Omonhinmi C. Asotie</td>
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<td>Yah Clarence</td>
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<td>Orjielwe, Chika (Dr)</td>
<td>Snr. Lect.</td>
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<td>Dr. A. K. Asiagwu</td>
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<td>Alensela, O Mark</td>
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<td>Onwuejeogwu, Angulu M.</td>
<td>Prof</td>
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<td>Dr Siyan Peter</td>
<td>Visiting Asso Prof</td>
<td>Economics/Deve studies</td>
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<td>Igbatayo, Samuel</td>
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<td>Yesufu Abdul L.</td>
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<td>Asikhia O. Monday (Dr)</td>
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## Structure of Programme Implantation

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<thead>
<tr>
<th>Year/Level</th>
<th>Formal Studies in University and Laboratory Practical</th>
<th>Projects</th>
<th>Clinical Experiences</th>
<th>Planned Field Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td>1° Semester</td>
<td>2nd Semester</td>
<td>1° Semester</td>
<td>2nd Semester</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Week 1 – 15</td>
<td>Week 1 – 15</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>2</td>
<td>Week 1 – 15</td>
<td>Week 1 – 15</td>
<td>Nil</td>
<td>During Short Break</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 weeks Lab. Practical</td>
</tr>
<tr>
<td>3</td>
<td>Week 1 – 8 lectures Week 9 – 12 Split (4pm – 6pm lectures)</td>
<td>Week 1 – 8 lectures Week 9 – 12 Split (4pm – 6pm lectures)</td>
<td>Community Health assessment Project</td>
<td>Week 9 – 12 split. 8am – 1pm clinicals Med. Surg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>During Short Break</td>
<td>During Long Vacation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 weeks CHN</td>
<td>6 weeks Con. Clinical Med. Surg &amp; MCH 4 weeks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Week 1 – 6 lectures Week 7 – 12 Split (4pm – 6pm lectures)</td>
<td>Week 1 – 6 lectures Week 7 – 12 Split (4pm – 6pm lectures)</td>
<td>Patient care study NMCN research project for Gen. Nursing Exam</td>
<td>Week 7 – 12 MCH clinicals</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>During Short Break</td>
<td>During Long Vacation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 weeks Clinicals MCH</td>
<td>10 weeks Con. Clinical Med. - Surg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Week 7 – 12 lectures (MCH &amp; CHN)</td>
<td>Week 1 – 8 lectures (MCH &amp; CHN) Degree Exam.</td>
<td>Midwifery Project University Project</td>
<td>Week 5 – 12 Con. Clinicals MCH Professional Gen. Nsg Exam 2 wks</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Public Health Nursing Professional Exam During N.Y.S.C. Year
AREAS FOR CLINICAL EXPERIENCES

1. Critical Care settings
   i. Igbinedion University Teaching Hospital, Okada & Benin
   ii. Central Hospital, Benin City.

2. Specialties
   i. Neuropsychiatric Hospital, Uselu, Benin City
   ii. St. Phenomena’s Catholic Maternity Hospital, Benin City.

3. Community Health Nursing Experience
   i. Family Planning Clinic, Benin City
   ii. Nutrition Unit, Ikpema Street, Benin City.
   iii. Epidemiology & Control of Communicable Diseases, Sapele Road, Benin City.
   iv. School Health Unit – Off Sapoba Road, B/City.
   v. Health Education unit, B/City.
   vi. Health office (Ring Road) B/City.

4. Areas for Field Trip
   i. Nigerian Ports Authority, Warri.
   ii. Ewe Flour Mills, Edo State.
   iii. Coca Cola in Benin City.
   iv. Furniture Factory at New Lagos Road, B/City.
   v. Edo State Environment Protection Agency.
   vi. Benin City Airport
   vii. Water production & Protection process.
   viii. Delinquent Children’s Home, Benin City.
   ix. Catholic Old peoples Home, Benin City.
   x. Physically challenged peoples Home – Ezoti Street, behind Central Hospital Benin City.
   xi. Edo State Water Board – Sapele Road, Benin City.
   xii. Edo State properties development Board, Benin City.
A. Admission requirement:
Candidates seeking for admission into the programme leading to the Bachelor of Pharmacy (B.Pharm.) Degree must satisfy the minimum entry requirements of the University. In addition, the following requirements apply to the College of Pharmacy.

100 Level (Pre-Degree)
For admission into 100 level (Pre-Degree) candidates must pass English Language, Mathematics, Physics, Chemistry and Biology at credit level in the West African school Certificate (WASCE), Senior Secondary School Certificate Examinations (SSCE) or GCE “O” Level or its equivalent at not more than two sittings, plus an acceptable pass in the University matriculation Examinations where applicable.

200 Level (Direct Entry)
Candidates seeking Direct Entry Admission to 200 level of the programme must in addition to the requirements above, hold at least a Bachelor's degree (2nd Class Hons. from a recognized University) in Chemistry or the Biological Science or have passed Physics, Chemistry and Biology or Candidates who passed Botany in Lieu of Biology or Zoology may be considered for admission. A pass in Mathematics or Statistics at GBE “A” Level may be accepted in lieu of Physics. A pass at the HSC General Paper may be accepted in lieu of credit in English Language at the GCE “O” Level or WASC/SSCE.

B. Degree requirements:
Candidates admitted to the Bachelor of Pharmacy (B.Pharm.) Degree course must:

(i) Follow an approved course of study for a minimum of five academic sessions (for those admitted to 100 level) or four academic sessions (for those admitted to 200 level); graduates or undergraduates of other Universities with qualifications approved by the Senate of Igbinedinion University, Okada may be permitted to complete the requirements for graduation in the college over a period of not less than two academic sessions subsequent to matriculation.

(ii) Comply with such other regulations and requirements as may be prescribed.

All candidates are required to attend a minimum of 75% of each prescribed course in order to qualify for the examination.

C. Examination Arrangements:
All end-of-course examinations shall take place at the end of each semester. In addition to written examination, course examinations may involve Orals and/or practical.
Exemptions:
1. **Mathematics**: Candidates who have passed Mathematics at advanced level (GCE or HSC or the University 100 Level Mathematics course may be exempted from mathematics at the 200 level.

2. **Physiology, Anatomy and Biochemistry**: Candidates who have passed these courses at 200 level in Igbinedion University, Okada or degree holders in these subjects may be exempted from these courses as appropriate.

3. **General Studies**: Candidates who have already passed the general Studies course of Igbinedion University, Okada may not be required to register for these courses.

**Continuous Assessment**
Continuous Assessment during the semester may form part of the end-of-course grading. Its overall contribution shall not exceed 25%.

**Progress throughout the Programme**
The suitability of students to progress from one year of the programme to the next, and to graduation, will be determined by a satisfactory standard of course work and examinations. The minimum pass mark in all the courses at 200 - 500 levels shall be 50% except for Pharmacy Law and Dispensing Examinations where the pass mark shall be 60% (requirements of the Pharmacists” Council of Nigeria). The pass mark for 100 level courses shall be 40%. All decision concerning the progress of a student shall be subject to the approval of Senate on the recommendation of the Board of Studies of the College of Pharmacy.

The following are minimum number of credits a student must accumulate at the end of an academic session in order to move to the next level.

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>MINIMUM NUMBER OF CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>40</td>
</tr>
<tr>
<td>200</td>
<td>28 (38 for Direct Entrants who take GST)</td>
</tr>
<tr>
<td>300</td>
<td>30</td>
</tr>
<tr>
<td>400</td>
<td>20</td>
</tr>
</tbody>
</table>

Final year (500 level) students are required to repeat all failed courses as a pass in all courses of the B.Pharm. degree Programme is mandatory before a student can graduate. Normally, no candidate shall be allowed to take more than seven academic sessions (including pre-Degree) to complete the B.Pharm. degree programme.

**Probation/Withdrawal from the School**
Students who failed to accumulate the minimum of credits required to move to the next level but have at least 50% of the stipulated minimum number of credits, will be placed on probation for one year. Alternatively, they may opt for Inter-College transfer. A student on probation is required to repeat the level and register for failed courses. A student is allowed to go on probation once during the programme. Where he/she fails at any other time during the programme to accumulate the minimum number of credits required to move to the next level, such a student(s) shall withdraw from the college. Students who are unable to accumulate
50% of the minimum number of credits required to move to the next level shall withdraw from the college.

**COURSE STRUCTURE AND CREDIT LOAD DISTRIBUTION OF CREDIT LOAD**

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>BCH</td>
<td>-</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>MTH</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>PHS</td>
<td>-</td>
<td>9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>PCG</td>
<td>-</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>PCH</td>
<td>-</td>
<td>5</td>
<td>8</td>
<td>4</td>
<td>5</td>
<td>22</td>
</tr>
<tr>
<td>PCT/PIT</td>
<td>-</td>
<td>3</td>
<td>7</td>
<td>8</td>
<td>6</td>
<td>24</td>
</tr>
<tr>
<td>PMB</td>
<td>-</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>PCO</td>
<td>-</td>
<td>-</td>
<td>10</td>
<td>6</td>
<td>6</td>
<td>22</td>
</tr>
<tr>
<td>PPR/PCN</td>
<td>-</td>
<td>-</td>
<td>4</td>
<td>13</td>
<td>11</td>
<td>28</td>
</tr>
<tr>
<td>PPJ</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>BOT</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>ZOO</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>CHM</td>
<td>13</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>13</td>
</tr>
<tr>
<td>PHY</td>
<td>11</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>11</td>
</tr>
<tr>
<td>CSC</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>GST</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>54</strong></td>
<td><strong>33</strong></td>
<td><strong>37</strong></td>
<td><strong>38</strong></td>
<td><strong>40</strong></td>
<td><strong>202</strong></td>
</tr>
</tbody>
</table>

A student shall normally in any academic year (of two semesters) be allowed to register for and take a minimum of 30 credits and maximum of 50 credits. A student who is on probation may register for failed courses only.

**Industrial Attachment**
The students Industrial Attachment shall normally start at the end of 300 level examinations and terminate at the end of November of the year i.e students should resume studies in December. Students performance shall be assessed at the end of the attachment and those students whose performances are deemed to be unsatisfactory shall be required to repeat the attachment for a period to be determined by Senate on the recommendation of the Board of Studies of the College of Pharmacy.

**Students Results**
The students shall be given their results in term of the percentage scored together with the following letters grade:

<table>
<thead>
<tr>
<th>Percentage Score</th>
<th>Letter Grade</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 – 100%</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69%</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59%</td>
<td>C</td>
<td>3 (0 for Pharmacy Law and Dispensing)</td>
</tr>
<tr>
<td>45 – 49%</td>
<td>D</td>
<td>2 (2 for courses at 100 level)</td>
</tr>
<tr>
<td>40 – 44%</td>
<td>E</td>
<td>0</td>
</tr>
</tbody>
</table>

**DEGREE FORMAT**
The B.Pharm. Degree is unclassified (i.e. no classification to 1st, 2nd, 3rd or Pass). From each level (year) a Grade Point Average shall be calculated. Weighting shall be determined by the contribution of each level as stated below:-

<table>
<thead>
<tr>
<th>Level</th>
<th>Students admitted at 100 Level</th>
<th>Students admitted at 200 level</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>5%</td>
<td>-</td>
</tr>
<tr>
<td>200</td>
<td>10%</td>
<td>15%</td>
</tr>
<tr>
<td>300</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>400</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>500</td>
<td>50%</td>
<td>50%</td>
</tr>
</tbody>
</table>

The students final Grade Point Average shall be calculated from the sum of weight Grade Point Average for each level. A student in the final year shall earn a B.Pharm Degree when his/her final cumulative weighted Point Average is 3.0 and above.

**DISTINCTION**
A candidate shall earn a distinction when his/her cumulative grade point average in any Pharmacy subject area (over the duration of the entire degree programme) is 5.0 Distinction(s) shall be reflected in the transcript.

The Pharmacy subject areas are:
1. Pharmaceutics & Pharmaceutical Technology
2. Pharmacology & Toxicology
3. Clinical Pharmacy & Pharmacy Practice
4. Pharmaceutical Microbiology
5. Pharmaceutical Chemistry
6. Pharmacognosy

**SUBJECT CODE**

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy</td>
<td>ANA</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>BCH</td>
</tr>
<tr>
<td>Botany</td>
<td>BOT</td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM</td>
</tr>
<tr>
<td>Clinical Pharmacy</td>
<td>PCN</td>
</tr>
<tr>
<td>Computer Science and Information Technology</td>
<td>CSC</td>
</tr>
<tr>
<td>General Studies</td>
<td>GST</td>
</tr>
<tr>
<td>Industrial Training</td>
<td>PIT</td>
</tr>
<tr>
<td>Pharmaceutical Chemistry</td>
<td>PCH</td>
</tr>
<tr>
<td>Pharmaceutical Microbiology</td>
<td>PMB</td>
</tr>
<tr>
<td>Pharmaceutics &amp; Pharm. Technology</td>
<td>PCT</td>
</tr>
<tr>
<td>Pharmacognosy</td>
<td>PCG</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>PCO</td>
</tr>
<tr>
<td>Pharmacy practice</td>
<td>PPR</td>
</tr>
<tr>
<td>Physiology</td>
<td>PHS</td>
</tr>
<tr>
<td>Physics</td>
<td>PHY</td>
</tr>
<tr>
<td>Project</td>
<td>PPJ</td>
</tr>
<tr>
<td>Ancillary Mathematics</td>
<td>MTH</td>
</tr>
<tr>
<td>Toxicology</td>
<td>PTX</td>
</tr>
</tbody>
</table>
COURSE CONTENTS BY LEVEL
100 Level Courses: The following 100 level courses are taught in the College of Natural and Applied Sciences and the General Studies Unit:

1. Botany
2. Chemistry
3. General Studies (GST)
4. Physics
5. Zoology
6. Ancillary Mathematics

COURSE OUTLINE: The course outline, showing the course code, title and credit is presented below:

100 LEVEL
FIRST SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 111</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 111</td>
<td>Introduction Zoology</td>
<td>3</td>
</tr>
<tr>
<td>CHM 111</td>
<td>General Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 112</td>
<td>General Organic Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>MTH 115</td>
<td>Ancillary Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 111</td>
<td>Mechanics and Properties of Matter</td>
<td>2</td>
</tr>
<tr>
<td>PHY 112</td>
<td>General Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 113</td>
<td>Thermal Physics</td>
<td>2</td>
</tr>
<tr>
<td>GST 111</td>
<td>Communication in English I</td>
<td>2</td>
</tr>
<tr>
<td>GST 112</td>
<td>Logic, Philosophy &amp; Human Existence</td>
<td>2</td>
</tr>
<tr>
<td>GST 113</td>
<td>Nigerian People and Culture</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Sub-Total Units</strong></td>
<td><strong>25</strong></td>
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SECOND SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 121</td>
<td>Plant Structure &amp; Function</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 121</td>
<td>Functional Zoology</td>
<td>3</td>
</tr>
<tr>
<td>CHM 121</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 122</td>
<td>Practical Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHM 123</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 125</td>
<td>Ancillary Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 100</td>
<td>Practical Physics</td>
<td>1</td>
</tr>
<tr>
<td>PHY 121</td>
<td>Electromagnetism</td>
<td>2</td>
</tr>
<tr>
<td>PHY 122</td>
<td>Modern Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 123</td>
<td>Waves, Optics &amp; Vibrations</td>
<td>2</td>
</tr>
<tr>
<td>GST 121</td>
<td>Use of Library, Study Skills &amp; ICT</td>
<td>2</td>
</tr>
<tr>
<td>GST 122</td>
<td>Communication in English II</td>
<td>2</td>
</tr>
<tr>
<td>GST 123</td>
<td>Communication in French</td>
<td>2</td>
</tr>
</tbody>
</table>
200 LEVEL COURSES
The following courses are to be taken at the 200 Level.
1. Anatomy
2. Biochemistry
3. Physiology
4. Physiology
5. Pharmaceutical Chemistry
6. Pharmaceutical Microbiology
7. Pharmacognosy
8. General Studies (GST)
9. Entrepreneurial Studies
10. Community Studies Programme

Anatomy, Biochemistry and Physiology courses will be taught in the School of Basic Medical Science, College of Health Sciences.

COURSE OUTLINE
The 200 Level courses outline is presented in the table below:

### 200 LEVEL
#### First Semester

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANA 201</td>
<td>Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>BCH 213</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>PHS 201</td>
<td>Physiology Practical</td>
<td>-</td>
</tr>
<tr>
<td>PHS 205</td>
<td>Introduction and Blood Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PHS 206</td>
<td>Cardiovascular &amp; Respiratory Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PCG 201</td>
<td>Pharmacognosy Practicals I</td>
<td>1</td>
</tr>
<tr>
<td>PCG 212</td>
<td>Introduction to Pharmacognosy</td>
<td>2</td>
</tr>
<tr>
<td>PCH 212</td>
<td>Pharmaceutical Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>PCT 201</td>
<td>Pharmaceutics (Dispensing) Practice I</td>
<td>-</td>
</tr>
<tr>
<td>PCT 212</td>
<td>Introduction to Pharmaceutics</td>
<td>2</td>
</tr>
<tr>
<td>PMB 212</td>
<td>Principles to Pharmaceutical Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>GST 211</td>
<td>History &amp; Philosophy of Science</td>
<td>2</td>
</tr>
<tr>
<td>EPS 211</td>
<td>Entrepreneurial Studies I</td>
<td>2</td>
</tr>
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</table>

**Sub-Total Units** 22

#### SECOND SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANA 202</td>
<td>Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>BCH 223</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>PHS 207</td>
<td>Renal, Gastro-Intestinal &amp; Endocrine Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PHS 208</td>
<td>Neurophysiology &amp; Special Senses</td>
<td>2</td>
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<tr>
<td>PHS 202</td>
<td>Physiology Practicals</td>
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</tr>
<tr>
<td>PCH 221</td>
<td>Pharmaceutical Chemistry Practicals I</td>
<td>1</td>
</tr>
<tr>
<td>PCH 223</td>
<td>Pharmaceutical Chemistry II &amp; Basic Method of Analysis</td>
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</tr>
<tr>
<td>PMB 221</td>
<td>Pharmaceutical Microbiology Practicals I</td>
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<tr>
<td>PCT 201</td>
<td>Pharmaceutical (Dispensing) Practicals I</td>
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<tr>
<td>GST 221</td>
<td>Peace Studies and Conflict Resolution</td>
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</table>
300 LEVEL COURSES
The following courses are to be taken at 300 level:
1. Pharmaceutics & Pharmaceutical Technology
2. Pharmaceutical Chemistry
3. Pharmacology & Toxicology
4. Pharmacognosy
5. Pharmaceutical Microbiology
6. Pharmacy Practice

COURSE OUTLINE
The 300 Level courses outline is presented in the table below:

FIRST SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>PCH 311</td>
<td>Pharmaceutical Chemistry Practicals II</td>
<td>1</td>
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<tr>
<td>PCH 312</td>
<td>Pharmaceutical Organic Chemistry I</td>
<td>3</td>
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<tr>
<td>PCO 312</td>
<td>General Principles of Pharmacology</td>
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<td>PCO 313</td>
<td>Autonomic/Neuro-Pharmacology</td>
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<td>PCO 301</td>
<td>Pharmacology Practicals I</td>
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<td>PCT 312</td>
<td>Pharmaceutics (Dispensing) Practicals II</td>
<td>-</td>
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<tr>
<td>PCT 312</td>
<td>Pharmaceutical Technology I</td>
<td>3</td>
</tr>
<tr>
<td>PPR 312</td>
<td>Pharmacy Management/Entrepreneurship I</td>
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<tr>
<td>PCN 312</td>
<td>Introduction to Public Health</td>
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Sub-Total Units: 19

SECOND SEMESTER

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
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<tbody>
<tr>
<td>PCH 322</td>
<td>Pharmaceutical Analysis I</td>
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<td>PCH 323</td>
<td>Pharmaceutical Organic Chemistry II</td>
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<td>PCO 301</td>
<td>Pharmacology Practical I</td>
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<td>PCO 324</td>
<td>Systemic Pharmacology I</td>
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<tr>
<td>PCG 321</td>
<td>Pharmacognosy Practical II</td>
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</tr>
<tr>
<td>PCG 322</td>
<td>Pests and Pest Control, Alternative Medicine and Poisonous Plants</td>
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</tr>
<tr>
<td>PCT 322</td>
<td>Physical Pharmaceutics</td>
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<tr>
<td>PCT 301</td>
<td>Pharmaceutics (Dispensing) Practicals II</td>
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<tr>
<td>PMB 321</td>
<td>Pharmaceutics Microbiology Practicals II</td>
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<tr>
<td>PPR 322</td>
<td>Pharmacoeconomics</td>
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<tr>
<td>PCN 322</td>
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</tr>
<tr>
<td>PPR 323</td>
<td>Pharmacy Management/Entrepreneurship II</td>
<td>3</td>
</tr>
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</table>
400 LEVEL COURSES

The following courses are to be taken at 400 Level.

1. Pharmaceutics & Pharmaceutical Technology
2. Industrial Training
3. Clinical Pharmacy & Pharmacy Practice
4. Pharmaceutical Chemistry
5. Pharmacology & Toxicology
6. Pharmaceutical Microbiology
7. Pharmacognosy

The 400 Level course outline is presented in a table below:

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>PCH 411</td>
<td>Pharmaceutical Chemistry Practicals III</td>
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<td>PCH 412</td>
<td>Pharmaceutical Analysis II</td>
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<td>PCO 411</td>
<td>Pharmacology Practical II</td>
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<tr>
<td>PCO 412</td>
<td>Central Nervous System Pharmacology</td>
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<tr>
<td>PCO 413</td>
<td>Chemotherapy</td>
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<tr>
<td>PCG 422</td>
<td>Physiochemical Technique: Phytochemistry of Secondary Plant Metabolites</td>
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</tr>
<tr>
<td>PCG 411</td>
<td>Pharmacognosy Practicals III</td>
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<tr>
<td>PCT 411</td>
<td>Powder and Tablet Technology Practical</td>
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<tr>
<td>PCT 412</td>
<td>Pharmaceutical Technology II</td>
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<tr>
<td>PPR 412</td>
<td>Forensic Pharmacy &amp; Pharmacy Ethics</td>
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<tr>
<td>PCN 415</td>
<td>Pharmacokinetics</td>
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<td>PMB 411</td>
<td>Pharmaceutical Microbiology</td>
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<td>PMB 413</td>
<td>Sterile Products Formulation &amp; Immunology</td>
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<td><strong>Sub-Total Units</strong></td>
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**SECOND SEMESTER**

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<th>CODE</th>
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<tr>
<td>PIT 401</td>
<td>Industrial Training</td>
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<td><strong>Sub-Total Units</strong></td>
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<td><strong>Total Units</strong></td>
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**500 LEVEL COURSES**

The following courses are to be taken at 500 level.

1. Pharmaceutics & Pharmaceutical Technology
2. Clinical Pharmacy & Pharmacy Practice
3. Pharmaceutical chemistry
4. Pharmacology & Toxicology
5. Pharmaceutical Microbiology
6. Pharmacognosy
7. Project

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>PCH 512</td>
<td>Medicinal Chemistry I</td>
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<tr>
<td>PCO 512</td>
<td>Endocrine/Autocoid Pharmacology</td>
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<tr>
<td>PCO 513</td>
<td>Haemopoietic/Biochemical Pharmacology</td>
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<tr>
<td>PCG 512</td>
<td>Phytochemical Techniques II: Secondary Plant Metabolites: Special Classes of Plant Products</td>
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<tr>
<td>PCT 512</td>
<td>Drug Delivery &amp; Pharm. Technology</td>
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<tr>
<td>PCN 512</td>
<td>Pharmacotherapeutics I</td>
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<tr>
<td>PPR 512</td>
<td>Literature Evaluation and Communication Skills: The Pharmacist in Public Health Care (PHC)</td>
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<tr>
<td>PMB 512</td>
<td>Microbial Chemotherapy &amp; Bacterial Genetics/Resistance</td>
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Sub-Total Units 20

**SECOND SEMESTER**

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<tr>
<th>CODE</th>
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<tr>
<td>PCH 523</td>
<td>Medicinal Chemistry II</td>
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<tr>
<td>PTX 522</td>
<td>Toxicology/Drug Interactions</td>
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<tr>
<td>PCT 523</td>
<td>Dosage Form Evaluation &amp; Drug Stability</td>
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<td>PCN 521</td>
<td>Clinical Pharmacy Clerkship</td>
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<tr>
<td>PCN 522</td>
<td>Clinical Pharmacotherapeutics II</td>
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<tr>
<td>PMB 522</td>
<td>Preservation &amp; Fermentation Biotechnology</td>
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<tr>
<td>PPJ 501</td>
<td>Project</td>
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Sub-Total Units 17

Total Units 37

**INDEX FOR COURSE CODING**
Each course code is made up of three letters representing the subject area, followed by a three-digit number for courses in pharmacy subject areas, the three digit number indicates as follows:

**FIRST DIGIT**
This refers to the level of course i.e 5 for 500 level, 4 for 400 level, 3 for 300 level, 2 for 200 level and 1 for 100 level.

**SECOND DIGIT**
This digit indicates the semester in which the course is taken.
0 Combined first and second semester
1 First semester course
2 Second semester course

THIRD DIGIT
This indicates the type of course i.e theory or practical
0 Combined theory and practical course
1 Practical course
2 Theory course (numbered serially for any one level beginning from the first semester)

DEPARTMENT OF PHARMACEUTICS & PHARMACEUTICAL TECHNOLOGY

A. COURSE SCHEDULE

200 LEVEL

1st Semester

PCT 212 Introduction to Pharmaceutics (2 credits, 30hrs)
PCT 201 Practical Pharmaceutics (Dispensing)

2nd Semester

PCT 201 Practical Pharmaceutics (Dispensing) I (1 credit, 45hrs)

300 LEVELS

1st Semester

PCT 312 Pharmaceutical Technology I (3 credits, 45hrs)
PCT 301 Practical Pharmaceutics (Dispensing) II

2nd Semester

PCT 322 Physical Pharmaceutics (3 credits, 45hrs)
PCT 301 Practical Pharmaceutics (Dispensing) II (1 credit, 45hrs)

400 LEVEL

1st Semester

PCT 421 Powder and Tablet Technology Practicals (1 credit, 45hrs)
PCT 412 Pharmaceutical Technology II (3 credits, 45hrs)

2nd Semester

PIT 401 Industrial Training (4 credits, 640hrs)
500 LEVEL

1st Semester

PCT 512  Drug Delivery and Pharmaceutical Technology (3 credits, 45hrs)

2nd Semester

PCT 523  Dosage Form Evaluation Drug Stability (3 Credits, 45hrs)
PPJ 501  Project (4 credits, 180hrs)

B. DESCRIPTION OF COURSES

PCT 212 Introduction to Pharmaceutics (2 Credits, 30hrs)
Fundamental Operations in weighing: Errors in using dispensing balances: minimum weighable amounts and weighing techniques; conical and beaker shaped measures for dispensing liquids: errors in measurements and measuring techniques. Household measures and weighing of small amounts of materials.

Ethics of Dispensing and presentation of products: General dispensing procedure: the prescription: information given on the labels of dispensed medicines. Presentation of information on labels; additional labels. Pharmaceutical Calculation: percentage, proportional calculations and alligation: Calculations involving very small quantities.

Types of Pharmaceutical Proportional calculations and alligation: Calculations involving very small quantities.

Types of Pharmaceutical Preparation: Solutions, mixtures, linctuses, syrups, elixirs, oral liquids, emulsions, applications, lotions gargles, mouthwashes, nasal and ear drops. Divided and bulk powders, granules, cachets, capsules and tablets, etc.

Pharmaceutical solution and solubility: Factors affecting solubility and rate of solution: solutions of liquids in liquids; The distribution of solutes between immiscible liquids and applications of the distribution law in pharmacy; Colligative Properties of solutions.

Phase eqilibra: The phase rule; Systms of one and two components and applications in pharmacy, e.g. eutectic mixture and sublimation (freeze) drying.

PCT 201 Practical Pharmaceutics (Dispensing) I (1 Credit, 45hrs)
Schedule 1:  Preparation of mixtures
Schedule 2:  Preparation of syrups, elixirs and linctuses
Schedule 3:  Preparation of lotions and liniments
Schedule 4:  Preparation of collodions and paints
Schedule 5:  Preparation of gargles, inhalations nasal drops
Schedule 6:  Preparation of enemas and irrigations
Schedule 7:  Preparation of Powders.

PCT 312 Pharmaceutical Technology I (3 Credits, 45hrs)
Dispersed system:
Suspension: factors affecting the preparation of a physically stable suspension: flocculated and deflocculated system: caking and resuspension; sedimentation, behaviour of flocculated and deflocculated suspensions: pharmaceutical applications of suspensions; colouring agents used in the formulation of suspensions.

Emulsions and emulsifications: types of emulsion and testing of emulsion types: theories of emulsions (Bancroft's Harkens oriented wedge and the complex film theories); emulsifying agents and their classification; methods available for the preparation of emulsion; preservation and stability of emulsions; concept of hydrophilic-lipophilic-balance (HLB); formation of emulsions by HLB methods: methods for determining HLB numbers;

Semi-solid emulsion: Creams-types of preparation; Ointments types of ointment bases; Pastes - their bases and methods of preparation; Jellies and Poultices e.g kaolin poultice; Gels; The structure and properties of gels, application of gels in pharmacy.

Suppositories and Pessaries: method of their preparation, shapes and sizes, properties of an ideal suppository base; types of suppository bases: general methods of preparations of suppositories and their packaging.

Filtration: factors affecting filtration; mechanism of filtration; filter media and aids; filtration equipments (continuous rotary vacuum filter, the filter press and the edge filters)

Centrifugation: principle of centrifugation: laboratory and large scale centrifuges

PCT 323 Physical Pharmaceutics (3 credits, 45hrs)
Adsorption: The mechanism of adsorption: The langmuir and B.E.T. Isotherms, chemisorption; and factors affecting the amount adsorbed; application of adsorption in pharmacy.

Surface and interfacial phenomena: surface tension: contact angle and the wetting of solid, spreading of one liquid over another, mechanism of capillary rise and effect of temperature, methods of determining surface tension.

Surface active agents and their classification: pharmaceutical applications and medicinal importance of surface active agents.

Bulk Properties of Surfactant Solutions: micelle formation and methods for the determination of the critical micelle concentration (CMC); factors affecting micelles; stability of micelles.

Solubilization: factors affecting solubilization: and pharmaceutical application of solubilization.

Colloidal systems: classification of colloids; properties of colloids solutions; preparation of lyophobic solutions; stability of lyophobic colloids.

Rheology: Newtonian fluids; flow characteristics of Newtonian fluids and effect of temperature; determination of viscosity principles of capillary tube; Redwood and falling sphere viscometers; rotational viscometers; the flow properties of disperse systems
and viscosity coefficients of colloidal dispersions; viscosity imparting agents in pharmacy; non-Newtonian fluids plastic, pseudoplastic and dilatant flows; thixotropic systems; rheological properties of suspensions; emulsions, ointments and creams.

Mechanism of fluid flow: significance of Reynold's number; distribution of velocities across a tube and boundary layers.

**PCR 301  Practical Pharmaceutical (Dispensing) II  (1 credit, 45hrs)**
Schedule 1: Preparation of emulsions
Schedule 2: Preparation of ointments
Schedule 3: Preparation of creams

**PIT 401  Industrial Training  (4 credits, 640hrs)**
This is a supervised work experience progress of approximately three months duration, commencing with the long vacation (following the end of the 300 level 2nd semester examinations) and ending in November, or an appropriate date stipulated by the Industrial Training Co-ordinator. During the programme, students are attached to pharmaceutical establishments including drug manufacturing industries, hospital pharmacies and community pharmacies. The objectives is to expose students to pharmacy practice in an actual work-related environment. Each students keeps a record of his/her training and experience during the programme in a log book and is visited for supervisory purpose by an academic staff member from the School. In addition, an experienced pharmacist located in the pharmaceutical establishment to which the student is attached provides day-to-day supervision.

**PCT 411  Powder and Tablet Technology Practicals  (1 credit, 45hrs)**
Measurement of flow properties of powder
Assessment of degree of mixing in powders
Granulation techniques and drying processes
Introduction to tablet machines and their maintenance
Compression of tablets
In-process controls in tableting

**PCT 142  Pharmaceutical Technology II (3 credits, 45hrs)**
*Size classification:*
Particle shape and size; sieving and sifting; determination of particles size.

*Commination:*
General principles. Size distribution during comminution and importance of fine particle in pharmacy.

*Comminuting machines*

Mixing: Definition and objective of the mixing process, mixing process and types of mixtures. The scale of scrutiny.

The mixing of solids; some properties of random mixture. The degree of mixing and de-mixing of powders.
Assessment of degree of mixing.

Drying of solids; the rate of drying and the distribution of moisture in solids. The three stages of moisture distribution in a drying particulate bed. Factors involved in the selection of drying methods and choice of drying equipment; freeze drying.

**Flow properties of powders:** Methods for the determination of angle of repose; factors affecting the angle of repose; flow of powders through tubes and holes; cohesive pharmaceutical powders; experimental methods used for measuring the “cohesiveness” of powder beds; e.g., the split method of Tideswell and Dodyfield and the Ashton et al apparatus; factors affecting the tensile strength of powders, factors affecting the flow properties of powders e.g., Effect of particle shape and size; moisture; glidants and temperature.

**Granulation and Tablet Technology:** Reasons for and methods of granulation; essential granule properties. Tablet manufacture; types of compressed tablets; formulation of tablets; excipients; the compression of granules, compression of weight and pressure; principles of the operation of single punch and multiple (rotary) punch tablet machines; problems encountered during tablet manufacture and ways to remedy them.

**Tablet coating:** Types of coating materials and methods - pan, sugar, film and enteric coating; requirements for core tablets and coating of granules; fluidized bed and compression coating.

**Capsules:** Hard gelatin capsules; materials for capsules; method of capsule production; capsule filling; equipment and operations; formulation and finishing of capsules; soft gelatin capsules; nature of the soft gelatin shells and of the capsule content.

**PCT 512 Drug Delivery and Pharmaceutical Technology (3 credits, 45hrs)**

**Biopharmaceutics:** The areas to be covered in this course will include the fate of a drug after administration; physical significance of drug concentration in the blood; biological factors in drug absorption; physicochemical factors affecting absorption; dosage form consideration in gastrointestinal absorption; bioavailability and bioequivalence. In addition, the problems associated with pre-formulation of drugs and the design of dosage forms from an industrial perspective will be discussed.

Correlation of in-vitro and in-vivo data tests: Examples of correlation of in-vitro and in-vivo data of some drugs, e.g., aspirin, digoxin, griseofulvin and oxytetracyclin tablets and capsules.

Problems involved in obtaining perfect correlation. Regulatory affairs and clinical trials will also be discussed.

**Drug Delivery Systems and Biotechnology:** Drug release mechanisms; ocular, transdermal and trans-nasal delivery systems; other novel drug delivery systems; site-specific/targeted delivery; bioartificial organs; production of therapeutic proteins/biochemicals; gene therapy/genetic engineering protein/peptide delivery, liposomes, polymeric substances; design of therapeutic and diagnostic agents.
**Aerosol Science and Technology:** Formation of aerosols; basic aerosols technology; formation techniques of different aerosol systems; factors affecting spray characteristics of aerosols; filling techniques and testing methods of aerosol packs.

**PCT 523 Dosage Form Evaluation and Drug Stability (3 credits, 45hrs)**

Pharmaceutical Evaluation of Dosage Forms

**Liquids:** Labeling and packaging, description, content, appearance (colour, clarity, etc), pH, weight per ml, refractive index, etc.

**Semi-solids:** Labeling and packaging, description, content, appearance, weight per ml.

**Tablets and Capsules:** Labeling and packaging, description, appearance. Standard for tablets and capsules: Shape, weight, content of medicaments, diameter, hardness and friability; disintegration and dissolution tests for tablets and capsules. In-vitro dissolution tests for solid dosage forms: Natural convection Non-sink methods such as solvometer, hanging pellet, and static disc methods, forced convection non-sink methods such as Wruble, beaker, oscillating tube rotating disc, Sounder & Ellenbogen methods, and forced convection-sink methods (e.g., adsorption, partition, dialysis and column methods). Continuous flow through system.

Drug stability: Incompatibility in liquid dosage forms; chemical degradation of pharmaceutical products (hydrolysis, oxidation, isomerization, polymerization, decarboxylation and adsorption of carbon dioxide); physical factors influencing chemical degradation (temperature, moisture, light and radiation): factors influencing and methods of reducing chemical degradation; physical degradation of pharmaceutical products e.g., loss of volatile constituents, loss of water, adsorption of water, crystal growth, polymorphic changes and colour changes. Microbiological degradations.

Accelerated stability testing.

**Packaging Materials** general principles
Metals (e.g., tin, iron and aluminium) and plastics solvent properties, toxicity, permeability and light transmission characteristics.

Glass mechanical strength and resistance to thermal shock. Flake and spicule formation; Paper and board; Closure testing:- folded, bung and push-on seals, reasons for test failures; Package testing.

**PCT 501 Project (4 credits, 180hrs)**

This course is a project assigned to the student under the supervision of one or more academic staff.
A. COURSE SCHEDULE

200 Level
1st Semester
PCH 212 Pharmaceutical Chemistry I (2 Credits, 30hrs)

2nd Semester
PCH 221 Pharmaceutical Chemistry Practicals (1 Credit, 45hrs)
PCH 223 Pharmaceutical Chemistry II (2 Credits, 30hrs)

300 Level
1st Semester
PCH 311 Pharmaceutical Chemistry Practicals II (1 Credit, 45hrs)
PCH 312 Pharmaceutical Original Chemistry I (3 Credit, 45hrs)

2nd Semester
PCH 322 Pharmaceutical Analysis I (3 Credit, 45 hrs)
PCH 323 Pharmaceutical Organic Chemistry II (2 Credits, 30 hrs)

400 Level
1st Semester
PCH 412 Pharmaceutical Analysis II (3 Credits, 30hrs)
PCH 411 Pharmaceutical Chemistry Practical III (1 Credit, 45 hrs)

500 Level
1st Semester
PCH 512 Medical Chemistry I (2 Credits, 30hrs)

2nd Semester
PCH 523 Medical Chemistry II (2 Credits, 30hrs)
PPJ 501 Project (4 Credits, 180hrs)

B. DESCRIPTION OF COURSES
PCH 212 Pharmaceutical Chemistry I (2 credits, 30 hrs)

(i) **Atomic and Molecular Structure**
In this course, a short review of electronic structure of atoms and molecules including introduction of quantum theory, application of Schrodinger equations to simple systems (e.g. the Hydrogen atom) to show the origin of the \( n, l, m, s \) nomenclature will be carried out. The relationship between the electronic structure of elements and the formation of covalent, ionic and coordinative (ative) bonds leading to complexation and chelation and the nature and pharmaceutical important application of co-ordination compounds, metal complexes and chelating agents will be discussed.

(ii) **Pharmaceutical Inorganic Chemistry**
This course will involve a comparative study of the physic-chemical properties, preparation and uses of the elements of the periodic table and their compounds of pharmaceutical importance. The chemical basis for the pharmaceutics uses will also be emphasized.

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PCH 223 Pharmaceutical Chemistry II (2 Credits, 30 hrs)

(i) **Physical Chemistry**
Review of principles of thermodynamics, chemical and ionic equilibria, and chemical kinetics relevant to pharmacy effect of these on the feasibility of drugs, synthesis. Mixing, solubility, biological redox systems.

(ii) **Radiochemistry/Radiopharmacy**
*Introduction to Radiochemistry:* Types of radioactivity and radio-active decay particles and their measurements, Pharmaceutical application of radioisotopes.

(iii) A brief review of fundamental concepts in Organic Chemistry such as bonding and reactivity or organic compounds, hybridisation, resonance theory, inductive, mesomeric hyperconjugative and electrometric effects.

(iv) General review of organic reactions leading to interconversion and modification of functional groups through nucleophilic and electrophilic substitution, elimination addition and rearrangement reactions. Utility of these reactions for isolation, characterisation, elucidation of structure and synthesis of medicinal products.

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PCH 221 Pharmaceutical Chemistry Practicals I (1 Credit, 45 hrs)

Practical exercises in quantitative analysis of compounds of pharmaceutical important. Standardization of NaOH (use of primary standard). Standardization of HCl (use of secondary standard).

Determination of the percentage of acetylsalicylic acid in Aspirin. Determination of the percentage of sodium salicylate in a given sample.

Determination of sodium potassium lactate, Rochelle salt \( \text{NaKC}_4\text{H}_4\text{O}_6-4\text{H}_2\text{O} \)
Standardization of 0.1N KMnO\(_4\) solution, determination of Fe\(_2\)SO\(_4\) in a given sample.

Determination of percentage of Calcium lactate in the given sample Standardization of 0.1N sodium thiosulphate solution of Iodine, B.P determination of strong iodine solution.
Determination of percentage of w/v C6H5OH (phenol). Determination of percentage of NH4Cl (Ammonium Chloride) in the given sample.
Gravimetric determination of sulphur

**PCH 312 Pharmaceutical Organic Chemistry I (3 credits, 45hrs)**

Types of organic reaction mechanisms taken in relation to types of organic functional groups, effects on their stability. Use in pharmacy. Other physicochemical properties, solubility, absorption, distribution and excretion when found in drug molecules. Functional groups to be treated include Aldehydes and Ketones, alcohols and phenols, carboxylic acids and their derivatives (amides, esters, acid anhydrides, Acyl halides) and sulphonlic acid, also to be treated and amines and are imines, nitriles, nitro and nitroso groups and azo-compounds.

General review of the concept of aromaticity in benzene and how this affects substitution in such structures.

**Stereochemistry**
Review of total concept of stereoisomerism as distinct from isomerisms of other types-optical and geometrical isomerism, chiral and achiral molecules, stereoisomerism and molecular conformation in relation of drug action through drug-receptor interaction. Biological examples, Determination of configuration- spectroscopic methods,


**PCH 323 Pharmaceutical Organic Chemistry II (2 credits, 30hrs)**

(i) **Synthetic Methods in Medical Chemistry**
Carbon-carbon, carbon-nitrogen, carbon-oxygen, carbon sulphur, etc, bond forming reactions as well as other functional group reactions and their applications to synthesis of organic compounds with examples from biological active compounds. Reactions leading to modification of functional groups such as oxidation and reduction reactions. A brief review of organo-metallic chemistry and its pharmaceutical compounds.

(ii) **Chemistry of Heterocyclic compounds**
Nomenclature, properties, preparations reactions and general chemistry of the following hetero-aromaties-furan, thiophen, pyrole, pyridine, isoquinoline quinoline, and important pharmaceutical compound derived from them.

**PCH 311 Pharmaceutical Chemistry Practical II (1 credit, 45hrs)**

The practical exercise will incorporate the following techniques in organic chemistry.

Purification: Separation techniques (neutral, Neutral and acidic, neutral and basic, acidic and basic;

Recrystallisations; Distillations; Chromatography
Criteria of purity (Tests for purity): Melting point; Boiling point; Chromatography
Qualitative organic Analysis: Different types of organic compounds possessing various functional grouping will be used for the exercise.

**PCH 322    Pharmaceutical Analysis (2 Credits, 30hrs)**

(i) **Instrumental Methods of analysis of pharmaceuticals.**
Absorption spectrophotometry, Infra-red spectroscopy, Fluorimetry, Atomic Absorption spectroscopy, N.M.R.

Spectrometry: Gas-liquid chromatography; HPLC; Other methods; e.g. Polarography, Potentiometry, and Polarimetry, Mass Spectrometry.

(ii) Official standards for pharmaceutical chemicals and formulated products which are designed primarily to set limit of tolerance for the product at the time it reaches the patient. Such quality criteria which are specified in official monographs for pharmaceutical chemical include: A description of the drug or product, Solubility, Test for identity, Physical constants, Quantitative assay of pure chemical entity in the case of pharmaceutical chemicals, or of the principal active constituents in the case of formulated product, Limit tests to exclude excessive contamination, and Storage conditions. In addition to the above, the students should be aware of the source of impurities in pharmaceutical. The methods mentioned above should include Acid-base titrations, non aqueous acid base titrations, oxidation-reduction titrations, complexometric titrations, gravimetry and limit tests.

**PCH 412    Medicinal Chemistry I (3 credits, 45hs)**

Drug quality assurance system: Monographs and specifications for drugs and drug products. Applications of chemical and physicochemical analytical methods in purity determinations; identification of pharmaceuticals, radio-pharmaceuticals and medicinal products; Basic tests methodology for essential drugs. Equivalence and biopharmaceutical methods in purity determination. Analysis of drugs in biological samples.

**PCH 411    Pharmaceutical Chemistry Practicals III (1 Credit, 45hrs)**

Organic Synthesis on medicinal compounds involving several stages, e.g., preparation of benzocaine (Ethyl-p-aminobenzoate); Preparation of Aspirin; Preparation of Sulphanilamide; Instrumental Methods of Analysis involving Refractometry, Colorimetry and colorimetric methods, Potentiometric methods (use of pH and pH determination hydrolysis); Demonstration of IR, UV/Visible spectrophotometry for the analysis of drugs or organic compounds.

**PCH 512    Medicinal Chemistry I (2 credits, 30hrs)**

(i) Drug design: Physico-chemical approaches to drug design, Historical, Free-Welcon and Hansch approaches. The concept of isosterism. Bioisoterism as a tool in drug design. SAR in drug design. Anti-metabolite and pro-drug approach to design of new drugs.

(ii) Medicinal chemistry of some selected compounds, A study of the following classes of drugs in respect of their nomenclature, physical and chemical properties, structure-activity, relationship, synthesis (when necessary), assay, metabolism, where applicable and uses, General and Local anaesthetics, Sedative-hypnoties- benzodiazepines; Antipsychotics-
phenothiazines; Anticonvulsants-phenytoin, carbamazines, Analgesics; Antidepressants-
mepramine.

(iii) Chemistry of drug metabolism.

**PCH 523  Medicinal Chemistry I (2 Credits, 30hrs)**

Study of the chemistry of medicinal compounds: The chemistry, nomenclature, physico-
chemical properties, stereochemistry synthesis (where necessary), structure-activity
relationship, metabolism and uses of the following groups of drugs:

(i) Antihypertensive, diuretics, steroids including steroidal hormones, chemotherapeutic
agents such as sulphonamides, anti-malarials, antibiotic, anthelmintics, trypanocides,
schistosomicides, amoebicides, anticancer and antiviral agents.

(ii) Photochemistry: general principles, characteristics of photochemical reactions and
application both in the synthesis and spoilage of drugs.

**PPJ 501  Project (4 credits, 180hrs)**

This course is a project assigned to the student under the supervision of one or more academic
staff.
DEPARTMENT OF PHARMACEUTICAL MICROBIOLOGY

A. COURSE SCHEDULE

200 LEVEL

1st Semester

PMB 212  Principle of Pharmaceutical Microbiology (2 credits, 30hrs)

2nd Semester

PMB 221  Practical Pharmaceutical Microbiology I (1 credit, 45hrs)

300 Level

1st Semester

PMB 312  Disinfection and Sterilization (3 credits, 45hrs)

2nd Semester

PMB 321  Practical Pharmaceutical Microbiology II (1 credit, 45hrs)

400 Level

1st Semester

PMB 411  Practical Pharmaceutical Microbiology III (1 Credit, 45hrs)
PMB 413  Sterile Products Formulation, and Immunology (2 Credits, 30hrs)

500 Level

1st Semester

PMB 512  Microbial Chemotherapy and bacterial Genetics (3 credits, 45hrs)

2nd Semester

PMB 523  Preservation and fermentation Biotechnology (2 credits, 30hrs)
PPJ 501  Project (4 credits, 180hrs)

B. DESCRIPTION OF COURSES

PMB 212  Principle of Pharmaceutical Microbiology (2 credits, 30hrs)

General structure of the bacterial cell, the bacterial spore, its structure and resistance to inactivating agents.
Systematic classification of bacterial and characteristics of major groups - Taxonomy, protoplasts, spheroplasts and L-Forms. Nutritional requirements and growth of bacterial culture media and evolution of pure culture technique.

Enumeration of microorganisms, Fungi and moulds; their importance in pharmacy, and medicine. The Richettstia, Chlamydia, Viruses (including HIV/AIDS) and viral replication. Introductory parasitology, Protozoal parasites of public Health importance.

PMB 221  Practical Pharmaceutical Microbiology I (1 credit. 45hrs)

The practical exercises in this course are designed to make the students appreciate some of the principles and techniques, which are unique to the field of microbiology. They include exercises on ubiquity of microorganisms: effect of environments and microscopic examinations of bacteria.

PMB 312  Disinfection and Sterilization (3 credits, 45hrs)

The preparation and handling of sterile pharmaceutical products requires the adoption of techniques aimed at minimizing or completely eliminating the possibility of contamination by microorganisms, whether pathogenic or not.

This is a theoretical and practical course on disinfection and sterilization designed to ensure basic knowledge acquired for performance of these skills. They include; General principles of physical and chemical sterilization.

Chemical disinfections and microbiology of air; properties of ideal chemical disinfectant, and factors affecting the activity of chemical disinfectants and disinfection. The major groups of chemical disinfectants. Their properties, storage and uses. Method of evaluation of potency of disinfectants and antiseptics; Extinction Time and phenol Coefficient Methods. Bacteriostatic and Fungistatic activity determinations. Modes of action of chemical antibacterial agents used as disinfectants and antisepsics. The design of aseptic room and the provision of clean air.

Official Methods of sterilization by heat; other methods of sterilization e.g., Uses, of gases, radiation and filtration.
Sterility Testing of Filtration  sterilized products and of bacteria proof filters.

PMB 321  Practical Pharmaceutical Microbiology II (1 credit, 45hrs) This course is designed to augment and enhance understanding of the principles studied in PMB 312, for example exercises are carried out on factors affecting bactericidal activity, determination of phenol coefficient values etc.

PMB 413  Sterile Products Formulation and Immunology (2 credits, 30hrs)

Parenteral products, injection (single and multi-dose), eye preparations and contact lens solutions their formulation, preparation and use; solvents for parenteral preparations; pyrogens and apyrogenic water, effects of routes of administration on parenteral products; Immunity, antigens, antibodies, their reactions and their applications, theories of AB production; hypersensitivity, allergy, atopy and other outcome of antigen-
antibody reactions; immunological products; production and quality control; types of bacterial and viral vaccines; toxoids; immunosera; diagnostic reagents e.g. Schick, Dick and Tuberculin Testing reagents.

**PMB 411 Practical Pharmaceutical Microbiology III (1 credit, 45hrs)**

The focus of this course is aseptic techniques and preparation of some sterile products such as eye drops and single-use parenteral large volume solutions.

**PMB 512 Microbial Chemotherapy and Bacterial Genetics (3 credits, 45hrs)**


Introduction to Bacterial Genetics and Genetic engineering.

**PMB 523 Preservation and Fermentation Biotechnology (2 credits, 30hrs)**


**PPJ 501 Project (4 credits, 180hrs)**

This course is a project assigned to the student under the supervision of one or more academic staff.
DEPARTMENT OF PHARMACOGNOSY

A. COURSE SCHEDULE

200 Level

1ST Semester
PCG 211 Introduction to Organized Vegetable Drugs (1 Credit, 15h)
PCG 212 Practical Pharmacognosy I (1 Credit, 45h)

2ND Semester
PCG 221 Introduction to Unorganized Vegetable Drugs (1 Credit 15h)
PCG 212 Practical Pharmacognosy I (1 Credit, 45h)

300 Level

1ST Semester
PCG 311 Practical Pharmacognosy II (1 Credit, 45h)

2ND Semester
PCG 321 Phytochemistry and Biogenesis of Drugs of Natural Origin (3 Credits, 45h)
PCG 311 Practical Pharmacognosy II (1 Credit, 45h)

400 Level

1ST Semester
PCG 411 Plant Cultivation, Alternative Medicine and Poisonous Plants (3 Credits, 45h)
PCG 412 Practical Pharmacognosy III (1 Credit, 45h)

500 Level

1ST Semester
PCG 511 Nigerian Medicinal Plants, Pesticides, and Biogenetic Investigations (3 Credits, 45h)

2ND Semester
PPJ 501 Project in Pharmacognosy (4 Credits, 180h)

B. DESCRIPTION OF COURSES

PCG 211 Introduction to Organized Vegetable Drugs (1 Credit, 15h)
Introduction to Pharmacognosy: Definition and relationship with other sciences, botanical nomenclature and keys, Basic plant cell and anatomy, Use of Microscopes, Photosynthesis. Organized (Cellular) Drugs: a)Microscopy, microscopy, biological and geographical sources, cultivation, collection and preparation, constituents, substitution, adulteration, uses of crude drugs e.g. senna leaf, cascara bark, rauwolfia root, ginger rhizome, clove flower buds; simple chemical tests. b) Carbohydrates and their derivatives such as monosaccharides, disaccharides, algae polysaccharides (alginic acid, alginates, carrageneans and agar); c) Honey, gums and mucilages including pharmaceutical applications.
PCG 221  Introduction to Unorganized Vegetable Drugs  (1 Credit, 15h)
Unorganized (Acellular) Drugs: a) Plant lipids such as fixed oils, fats and waxes, peanut, corn, olive, castor, soyabean and theobroma oils. Test and quality control; b) Volatile oils and resins (sources, composition, preparation of peppermint, caraway, lemon, eucalyptus and ginger oils); c) Balsams and oleoresins (Tolu and Peru balsams, Colophony resin).

PCG 212  Practical Pharmacognosy I  (1 Credit, 45h)
This is designed to introduce the students to laboratory work in pharmacognosy in order to enhance their knowledge in the science of the course. The laboratory work will include identification tests for sugars, genuine starches, gums, oils, fats and waxes, volatile oils.

PCG 321  Phytochemistry and Biogenesis of Drugs of Natural Origin  (3 Credits, 45h)
Phytochemistry and biogenesis of alkaloids (tropane, pyrrolizidine, quinoline, piperidine, isoquinoline, indole, bis-indole and steroidal types), as well as Glycosides (saponins, cardiac, anthraquinone, cyanogenetic types, flavonoids and tannins); Proteins, sweeteners and botanical enzymes e. g. papain, bromelain, ficin; Chromatographic techniques (PC, TLC, GLC, HPLC, gel filtration, electrophoresis); Field Trips.

PCG 311  Practical Pharmacognosy II  (1 Credit, 45h)
Laboratory exposure to phytochemical methods, exercises on various types of chromatographic techniques, and identification tests for drugs from natural origin.

PCG 411  Plant Cultivation, Alternative Medicine and Poisonous Plants  (3 Credits, 45h)
Cultivation of medicinal plants, Collection and preparation of crude drugs; Evaluation of crude drugs; Standardization of herbal potions and plant procedure in modern medicine; Fibres and surgical dressings; Role of regulatory bodies (WHO, NAFDAC, PCN) on herbal potions; Types of alternative medicines (acupuncture, ayurveda, homoeopathy, naturopathy, aromatherapy); Techniques of administering alternative medicine (bone setting blood letting, psychotherapy, faith healing, trephination, abdominal surgery); State of herbal medicine practice in Nigeria; Poisonous and regulated medicinal plants (botanical sources, constituents, chemical tests, biological activities, antidotes to poisoning by Solanum spp. Abrus precatorius, Nicotiana spp. etc.)

PCG 412  Practical Pharmacognosy III  (1 Credit, 45h)
Plant collection, preparation and storage of herbarium specimens, macroscopy and microscopy of selected plants and crude drugs, evaluation and standardization of crude drugs, WHO quality control parameters.

PCG 511  Nigerian Medicinal Plants, Pesticides and Biogenetic Investigations  (3 Credits, 45h)
Pharmacological and toxicological study of selected Nigerian medicinal plants (e. g. Neem, Rauwolfia, Catharanthus, Fagara) for the treatment of malaria, hypertension, diabetes, sickle cell disease; antimicrobial, anticancer and cytotoxic agents; geographical sources, local names, ethnomedicinal uses, microscopy, macroscopy and chemical constituents.

Plants as sources of vitamins, including cod liver oil and yeast.
c) Pesticides and allergens: types and effects of botanical pesticides, herbicides, insecticides, molluscicides (their botanical sources, chemical nature and effects on man and animals),
d) Methods of investigation in biogenetic studies (tracer techniques, precursor-product sequence, competitive feeding etc)
e) Introduction to tissue culture as source of drugs

**PPJ 501 Project (4 Credits, 180h)**
This course is a project assigned to the student under the supervision of one or more academic staff. The research result is bound and orally assessed.
### DEPARTMENT OF PHARMACOGNOSY STAFF

<table>
<thead>
<tr>
<th>s/n</th>
<th>NAMES (Surname first)</th>
<th>Area of specialization</th>
<th>Qualifications</th>
<th>Position/Status</th>
<th>Date of Appointment</th>
<th>Full time/Associate Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GBOLADE, A.A.</td>
<td>Phytochemistry, ethnobotany, tissue culture</td>
<td>BPharm 1980, MPhil 1984 (Ife); PhD Pharmacognosy 1989 (Manch.)</td>
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<tr>
<td>2</td>
<td>EHIAGBONARE, J. E.</td>
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<tr>
<td>3</td>
<td>ADEBAYO, M. A.</td>
<td>Phytochemistry</td>
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<td>ADEDOKUN, A.O.</td>
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<td>Chief technologist</td>
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<td>7</td>
<td>OMOBOUDE, O</td>
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<td>NECO 2009</td>
<td>Lab Asst</td>
<td>20th June 2011</td>
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<td>8</td>
<td>IGHODARO, M (Mrs.)</td>
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<td>Pharm Tech Cert 1983</td>
<td>Pharm technologist</td>
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<td>OMONFUOMWAN, F</td>
<td>-</td>
<td>NECO 2005</td>
<td>Senior Lab Asst</td>
<td>30th Nov, 2010</td>
<td>Full Time</td>
</tr>
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</table>
DEPARTMENT OF CLINICAL PHARMACY AND PHARMACY PRACTICE

A. COURSE SCHEDULE

300 Level

1st Semester
PPR 312 Pharmacy Management/Entrepreneurship I (2 Credits, 30hrs)
PCN 312 Introduction to Public Health (2 Credits, 30hrs)

2nd Semester
PPR 322 Pharmacoeconomics (2 Credits, 30hrs)
PCN 322 Pathophysiology (2 Credits, 30hrs)
PPR 323 Pharmacy Management/Entrepreneurship II (3 Credits, 45hrs)

400 Level

1st Semester
PPR 412 Forensic Pharmacy/Pharmacy Ethics (3 Credits, 45hrs)
PCN 415 Clinical Pharmacokinetics I (3 Credits, 45hrs)

500 Level

1st Semester
PCN 512 Pharmacotherapeutics (2 Credits, 30hrs)
PPR 512 Literature Evaluation and Communication Skills; The Pharmacists in PHC (2 Credits, 30hrs)

2nd Semester
PCN 521 Clinical Pharmacy Clerkship (3 Credits, 135hrs)
PCN 522 Clinical Pharmacokinetics II (2 Credits, 30hrs)
PPJ 501 Project (4 Credits, 180hrs)

SCHEDULE OF COURSE

PPR 312 PHARMACY MANAGEMENT/ ENTREPRENEURSHIP I (2 Credits, 30hrs)

COURSE OUTLINE

1. Definition, Purpose and Scope
   Definition of terms, nature and functions of entrepreneurship (including Pharmacy Business); type of entrepreneur

2. Management Skills
   Management and administration defined.
   Management process; importance of management in pharmacy business (customers, clients, patients, public relationship, retail competitions selling, medical/sales representatives in hospitals/community pharmacies.)
Industrial pharmaceutical organization (medical/sales representatives); marketing (concept; functions, marketing mix and communication, product growth, salesmanship) Advertising and sales promotion, personnel management (leadership, recruitment, remuneration, negotiation, staff training, evaluation, motivation and management.

3. **Entrepreneurial Development**
   Generating and developing business ideas; Conducting market surveys, preparing a business plan; selecting a business location.

   Include roads, water and electricity supplies and appropriate technology for business.

4. **Policy and Legal framework**
   Legal procedure; information services; intellectual property rights and patently of inventions; risk and insurance; legal aspects of employment; taxation; ethics and good business practice.

**PCN 312 Introduction to Public Health (2 credits, 30hrs)**

**COURSE DESCRIPTION/OBJECTIVE**
The objective of this course is to introduce the student as a potential healthcare practitioner to the basic philosophy and purpose of public health and hygiene.

**COURSE OUTLINE**
- Effect of population culture, development economy and government policies on public health.
- Organization/management of public sanitation and communicable diseases and health education.
- Current drug therapies for HIV/AIDS and the associated OI's (opportunistic infections)
- The emotional (psychological aspects of HIV)
- The role of the Pharmacist as HIV/AIDS counselor/educator (Pharm. Services)
- Mechanisms of infections host parasites relationship, transmission of infections development of drug resistance.
- Other related public health issues.

**PPR 322 Pharmacoeconomics (2 credits, 30hrs) COURSE OUTLINE**
Definition, Purpose and Scope
- Definition of relevant terms
- Overview of basic economics
- Structure and politics of Nigeria Healthcare system
- Healthcare Costs
- Pharmacoeconomics techniques (cost minimization, cost effectiveness, cost utility, cost benefits)
- Pharmaceutical outcomes
- Health Maintenance Organization (HMO's)
- National health Insurance Scheme (NHIS)

**PCH 322 Pathophysiology (2 credits, 30hrs)**
Principles of Diseases and basic pathology
COURSE DESCRIPTION:
This course is designed to give the student an understanding of the pathologic basic of disease state.

At the end of this course, the student should be able to: understand the mechanism of cellular injury and death and the pathogenesis/pathophysiology of disease states.

COURSE OUTLINE
- The normal cell and the adopted cell
- Cell injury and cell death
- Inflammation and repair
- Neoplasia and its clinical aspects.
- Disease Immunity
- Systemic diseases; (Diabetes mellitus, Anaemia (iron storage disorder); govt and urate deposits in the kidneys)
- Fluid and haemodynamic imbalances
- Infection diseases
- Deficiency diseases (protein-caloric malnutrition vitamins/mineral deficiencies)
- The cardiovascular system
- Lymph nodes and spleen
- All systems, skin liver, gastrointestinal tract, pancreas, breasts and biliary tract
- Application of knowledge to pharmaceutical care.

PPR 323: PHARMACY MANAGEMENT/ ENTREPRENEURSHIP II
(3 CREDIT; 45 HOURS)

COURSE OUTLINE
- Principle and methods of marketing
- Fundamental of Marketing drugs in the community-(layout, design and modernization of pharmacies.
- Fundamentals of accounting - specially adopted to pharmaceutical business operations principles of organization.
- Organizational control and management principals.
- Leadership
- Product Selection
- Personnel Selection
- Personal Selection
- Patterns and methods of drug distribution and advertising
- Pharmacy financing and administration
- Delegation
- Performance evaluation

Records Systems
- Contemporary concepts in pharmacy practices
- Computers, electronic data system in pharmacy
- (Costing and pricing products/services. Analysis, Budgeting and cash flow.)
PCN 415: PHARMACOKINEICS I (3 CREDITS, 45 HOURS) Terminal Objectives
The students should be able to:
- Define the basic concepts of Pharmacokinetics
- Use raw data and derive the pharmacokinetic models and parameters that best describe the elimination.
- Critically evaluate biopharmaceutical studies involving drug product bioequivalence and bioequivalence.
- Design and evaluate dosage regimens of drug using pharmacokinetic and biopharmaceutical parameters

COURSE OUTLINE
- Definition of Terminology and symbols used in Pharmacokinetics
- Compartment models single and multiple compartment models
- Drug Absorption
- Bioavailability and Bioequivalence
- Drug Clearance
- Hepatics Elimination of Drugs
- Intravenous Infusions
- Multiple Dosage Regimens
- Prolonged Action dosage form Administration
- Non-linear Pharmacokinetics
- Relationships between pharmacokinetics Parameter and Pharmacologic Response
- Pharmacogenetics.

PPR 412 FORENSIC PHARMACY AND PHARMACY ETHICS
(3 CREDITS; 45 HOURS)

COURSE DESCRIPTION
Studies of various laws are regulations governing the practice of pharmacy, sale of drugs and pharmaceuticals. Need to explain the pharmacy laws in their relations to the broad principle of public law and civil code case histories can be relevant. The history of Pharmacy (globally and in Nigeria) and Pharmacists Act, Professional Responsibilities/Ethics.

COURSE OUTLINE
- History of Pharmacy-Nigeria/World
- Ethics of Pharmacy Profession in Nigeria
- Law related to NAFDAC

(National Agency for Food and Drug Administration and Control); NDLEA (National Drug Law Enforcement Agency); son (Standard Organization of Nigeria), Pharmacists council of Nigeria (PCN);
WHO/FAO Codex Ailimentarium Commission United Nations Narcotic Commission, federal Environmental Protection Agency (FEPA)etc
- Foods, Drugs and cosmetic laws including regulation, inspection, registration advertising, manufacturing, sales/distributions.
- Poisons, Drugs list (EDL)
- National Drug Policy;
- Fake And counterfeit drug laws
Consumer Protection Council Law all other laws related to pharmacy practices, including those of pharmacists
- Disciplinary committee and Assessors rules
- Pharmacists registration rule
- Dispensing of Drugs
- Patent and Proprietary Medicine etc
- Legislation on animal products
- National Health Insurance Scheme (NHIS)
- Other Health Policies.

A pass mark of 60% is required

PCN 512 PHARMACOTHERAPEUTICS (2 CREDITS 30HOURS)

COURSE DESCRIPTION
The course involves the discussion of disease states of the cardiovascular gastrointestinal and respiratory systems infections diseases and minor illnesses and how they can be arrested or alleviated by drug therapy and other treatment modalities.

Objectives;
The students should be able to:
- Have a good knowledge of the aetiology and pathophysiology of the diseases states discuss.
- Identify the signs and symptoms characters of a given disease state and other drugs therapy options.
- Recognise the complications that may occur from drug therapy and be able to develop recommend appropriate measures.
- Develop skills necessary to make meaningful contributions to the investigation and management of patients with various diseases.

COURSE OUTLINE
- Clinical Laboratory tests used in monitoring various disease states
- Aetiology, clinical manifestation and treatment of CHF (congestion Heart Failure) hypertension/stroke arrhythmia, ischaemic heart disease, angina and myocardial infarction, thrombo and pulmonary embolism, iron deficiency anaemia/sickle-cell anaemia, peptic ulcer, diabetes mellitus, asthma, chronic obstructive pulmonary disease, constipation, cold, cough, and allergy, diarrhoeas, emesis pain and headache insomnia, obesity, acne, contraception otitis.
- Management of insect stings/bites, toxic shock syndrome and tampons.
- Care of the eye/teeth
- Cancer, fever, pleuropulmonary and bronchial infections
- Urinary tract infections and PID, STI, meningitis
- Burns, fungal Infections
- Hepatitis; malaria and other parasitic diseases.

PRR 512 LITERATURE EVALUATION AND COMMUNICATION SKILL; PHARMACISTS IN PRIMARY HEALTH CARE (PHC) (2 Credits; 30hrs)

COURSE DESCRIPTION
This course introduces the students to the use of drug literature in the promotion of safe, effective and rational drug therapy. It helps the students to develop the skill for communicating effective with other healthcare professionals, the patients and patient relatives.

**COURSE OUTLINE:**

1. **Drug information retrieval and literature evaluation**
   - A study of the methods and resources available for the rapid and efficient handling of facture drug information and its effects utilization in the promotion of safe effective and rational drug therapy.
   - Resources needed for the establishment of a drug information centre and the provision of drug information service.
   - Development of hospital formulary system and essential drug information Bulletin.

2. **Pharmacists clinical roles**
   - In and out patient dispensing
   - Organization of patient medical charts and medication profiles.
   - Medication dosages, posology and administrate
   - Monitoring of drug interaction and adverse drug reactions.
   - Patient counseling.

3. **Communication Skills**
   - Appearance as a mode of Communication
   - The various styles of listening and response
   - Applicant of the various styles of listening and response to patient interview and education (pharmacy patient relationship)
   - Factor affecting compliance with drug region
   - Pharmacists relationship with other health care professional/the community.

**THE PHARMACISTS IN PHC**

**COURSE DESCRIPTION**

This course is aimed at preparing the students for rendering health service to the rural populace.

**OBJECTIVE**

- Offer health maintenance care (preventive medicine) involving the education of patients on the prevention of communicable diseases surveillance on patients immunization status rural pharmacy service as extension work.
- Offer acute primary care to patients who episodic self limiting diseases.
- Offer chronic primary care to patients who have chronic diseases or are utilizing chronic,
- Medication therapy after diagnosis and stabilization by a physician.
- Educate the patients on oral rehydration therapy and personal hygiene
- Use of traditional therapeutic agents and herbal phytotherapy in management of patients.

**COURSE OUTLINE**

- Overview of epidemiological methods
- Concept of PHC
PCN 521   CLINICAL PHARMACY CLERKSHIP (3 Credits; 135hrs)

COURSE DESCRIPTION
The clinical pharmacy clerkship consists of the pharmacy based experience (externship) and the clinical clerkship (Medical Experiences). The pharmacy based practice involves scrutinizing prescription for completeness dispensing and patient counseling under the supervision of a Pharmacists.

The clinical clerkship involves the posting of students to the hospital wards to form an integral part of the medical team.

Emphasis is placed on the therapeutic monitoring of patients, rational drug selection and dosing, monitoring for interactions and adverse drug reactions, taking of medication histories, patient counseling and education.

COURSE OUTLINE
Pharmacy supervised experiences (Externship)

(a) Dispensing: in and out patients
- Scrutinizing of prescriptions and dispensing
- Medication dosage and instruction mode of administration
- Compatibility of drug combinations
- Alternative to prescribed drugs

(b) Patients Counseling/Education
- Patients drug history and medication profile
- Patient medication instruction cards
- Patient compliance.

(c) Hospital/Community Pharmacy Environment
- Location, Arrangement
- Floor space, Equipment
- Organizations etc.

(d) Drug Information centre/Service

CLINICAL CLERKSHIP
This involves wards rotations conferences and case studies. It is done within an affiliated University Teaching Hospital or Community Health Sector.

Areas to be covered include psychiatry, internal medicine paediatrics, gynaecology/obstetrics, surgery through the sites. Each student will make an oral case presentation and submit/defend
two individual report and one group written report after the rotation. Written examination may be required or remedial grounds.

**PCN 522 CLINICAL PHARMACOKINETICS (2 Credits; 30 hrs)**

This is a course which is aimed at making the students use his knowledge of biopharmaceutics and pharmacokinetics in the design of dosage regimen for effective and rational drug therapy.

**COURSE OUTLINE**

Specific dosage prescribing requirements/guidelines under certain conditions:

(a) Prescribing for the paediatrics/geriatrics
(b) Prescribing for renal and liver impaired patients
(c) Prescribing for pregnant/lactating mother

Pharmacokinetics in disease states modifying body perfusion

Pharmacokinetics in disease states modifying protein binding

Considerations of the clinical pharmacokinetics of selected drugs used in various disease states.

**PJJ 501 PROJECT (4 Credits; 180 hrs)**

This course is a project assigned to the students under the supervision of one or more Academic staff. It must be defended before an external (assessor) examiner and the supervision.
A. COURSE SCHEDULE

300 Level

1st Semester
PCO 312 General Principles of Pharmacology (3 Credits, 45hrs)
PCO 313 Autonomic/Neuro-Pharmacology (3 Credits, 45hrs)
PCO 301 Practical Pharmacology (3 Credits, 45hrs)

2nd Semester
PCO 324 Systemic Pharmacology (3 Credits, 45hrs)
PCO 301 Practical Pharmacology (3 Credits, 45hrs)

400 Level

1st Semester
PCO 411 Practical Pharmacology II (1 Credits, 45hrs)
PCO 412 Central Nervous System Pharmacology (3 Credits, 45hrs)
PCO 413 Chemotherapy (2 Credits, 45hrs)

500 Level

1st Semester
PCO 512 Endocrine/Autocoid Pharmacology (3 Credits, 45hrs)
PCO 513 Heamopoietic/Biochemical Pharmacology (2 Credits, 45hrs)

2nd Semester
PIX 522 Toxicology (2 Credits, 45hrs)
PPJ 501 Project (4 Credits, 45hrs)

B. DESCRIPTION OF COURSES

PCO 312 General Principle of Pharmacology 3 Credits, 45hrs.

Definition of Pharmacology, scope and sub-divisions, of Pharmacology, methods and measurement in Pharmacology; drug development and evaluation; biological assays; clinical trails; measurement and evaluation of toxicity, pharmacokinetics; routes of drug administration, kinetics of drug absorption, distribution, blood-brain barrier; placenta barrier, biotransformation and elimination, Pharmacodynamics; mechanics of drug action, drug receptors, signal transduction and second messengers, selectivity of drug action, factors affecting drug action in man. Dose-response relationships, agonists, antagonists and their interactions with receptors. Drug toxicity and adverse drug reactions.

PCO 313 Autonomic/Neuro-Pharmacology 3 Credits, 45hrs.

Review of the anatomy and physiology of the autonomic and somatic nervous system; General principles of neurohumoral transmission; Cholinergic transmission; Synthesis,
storage and release of Ach; Muscarinic and nicotinic actions of Ach; Muscarinic receptor agonists and antagonists; Cholinesterases and anticholinesterases; Drugs used in myasthenia gravis; Drugs affecting autonomic ganglia; Neuromuscular blocking agents; Adrenergic Transmission; Synthesis, storage and release and inactivation of noradrenaline; Neuronal and extra-neuronal uptake mechanisms; Sympathomimetic amines, adrenergic neuron blocking drugs, drugs affecting the storage, release and disposition of neurotransmitters; Studying neurotransmitters; Nitric Oxide (NO) and Non-Adrenergic Non-Cholinergic (NANC) transmission.

**PCO 324 Systemic Pharmacology 3 Credits, 45hrs.**

**Ocular Pharmacology:** Miotics and mydriatics drugs used in glaucoma, Ophthalmological diagnostic agents; Respiratory Pharmacology; Asthma and anti-asthmatic drugs, expectorants, mucolytics and antitussives; cardiovascular Pharmacology; Hypertension and anti-hypertensive drugs; K⁺ - channel modulations, anti-anginal drugs, Cardiac glycosides and other inotropic agents, anti-arrhythmic agents; Gastrointestinal pharmacology; Laxatives and purgatives, anti-diarrhoeal drugs, Oral rehydration therapy, antipeptic ulcer drugs, Spasmolytics, emetics and anti-emetics; Renal Pharmacology: Diuretics Osmotic diuretics, carbonic anhydrase inhibitors, thiazides, loop diuretics, K⁺ - Sparing diuretics. Urine pH-altering agents.

**PCO 301 Practical Pharmacology I 1 Credit, 45hrs**

Experiment I: The influence of the route of drug administration on pharmacological response.
Experiment II: The relationship between agonist concentration and magnitudes of drug response
Experiment III: Introduction to bioassay methods
Experiment IV: Experiment on rabbit jejunum
Experiment V: The Guinea pig ileum preparation
Experiment VI: The rat uterus preparation.
Experiment VII: Cholinesterases and anti-Cholinesterases
Experiment VIII: The effect of neuromuscular blocking drug on the rat phrenic nerve diaphragm preparation
Experiment IX: Assay of antagonists.
Experiment X: Specificity of antagonists
Demonstration I: Finklemann Preparation.
Demonstration II: The isolated perfuse heart (Laugen-dorff) preparation.
Demonstration III: The study of the effect of parasympathomimetic drugs on cardiovascular system (in-vivo)
Demonstration IV: To demonstrate adrenergic mechanisms using cat blood pressure

**PCO 411 Practical Pharmacology 1 credit, 45hrs**

Experiment I: Determination of action of drug on sympathetic nerve function.
Experiment II: Screening test for local anaesthetics.
Experiment III: Analgesic testing
Experiment IV: Evaluation of substances that modify the action of the central nervous system
Experiment V: Action of drugs on the eye
Experiment VI: Analysis of unknown drugs: diverse techniques.
PCO 412 Central Nervous System Pharmacology - 3 Credits, 45hrs

Review of the functional Organization of the CNS; Local anaesthetics, Theories of general anaesthesia, general anaesthetic agents, preanaesthetic medication; Hypnotics and Sedatives; Centrally acting muscle relaxants, Alcohol and alcohol abuse; CNS Stimulants; Drugs used in Parkinson's disease; Drugs used in other neurodegenerative diseases; Antipsychotic; Antidepressants and mood stabilizing drugs; Opioid analgesics, and antagonists; Non-Steroidal anti-inflammatory analgesics; Antiepileptic drugs.

PCO 413 Chemotherapy 2 credits, 30hrs.

The pharmacology of the following drugs; Sulphonamides, beta-lactam antibiotics (penicillins, cephalosporins, carbapenems, and monobactams), tetracycline(s), chloramphenical, aminoglycosides Miscellaneous antibiotics, macrolides, polymyxins, lincosamides, fluoroquinolones, metronidazole, bacitracin. Chemotherapy of tuberculosis and leprosy; Antifungal agents; Chemotherapy of protozoan parasitic infection; antimalarials, antiamebas, drugs used in trichomoniasis, gardiasis, trypanosomiasis, leishmaniasis; Antihelmintics;Antiviral agents; HIV/AIDS treatment; Antineoplastic drugs.

PCO 512 Endocrine/Autooid Pharmacology - 3 Credits, 45hrs

Thyroid and antithyroid drugs; Drugs used in Diabetes, insulin, oral hypoglycaemic agents and glucagons; Corticosteroids; Pituitary hormones; Sex hormones; Anabolic Steroids, Contraceptives; Ergot alkaloids; Uterine relaxants; Histamines, Histamine receptor antagonists; 5-hydroxtryptamine and 5-HT antagonists; The kinins; Prostaglandins and leukotriences (SRSA) Renin- angiotensin System; Substance P.

PCO 513 Haemopoietic/Biochemical Pharmacology - 3 Credits, 45hrs.

Drugs in iron deficiency anaemia; Vitamins and other therapeutic nutritional supplements; Cholesterol metabolism and hypolipidemic drugs; pharmacogenetics and idiosyncratic reactions; Drug metabolism and drug metabolizing enzyme systems: Phase I and Phase II reactions, Hepatic and extra-hepatic metabolism. Induction and inhibition of drug metabolism; Anticoagulant; Fibrinolitics; Antifibrinolitics and antithrombotics.

PTX 522 Toxicology 2 Credits, 30hrs

Definition of toxicology and toxicant; Management of acute drug poisoning, plant, bacterial and animal poisoning; solvent poisoning; Pasticides, herbicides; Radiation toxicology; Air-born poisoning; Heavy metals and chelating agents; Food additives; Toxicity of drug-drug interactions.

PPJ 501 Project 4 Credits, 180hrs.

This course is a project assigned to the student under the supervision of one or more academic staff.
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<th>QUALIFICATION</th>
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<td>4.</td>
<td>NNABUIKE, N.D.</td>
<td>Pharmaceutical Technology</td>
<td>B.Pharm. (Hons) 1996 (UNN), M.Sc Pharm. Tech. 2002 (Lagos) MPSN</td>
<td>Lecturer II</td>
<td>16th January 2008</td>
<td>Full-Time</td>
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<td>6.</td>
<td>SOLOLA, S.O.A</td>
<td></td>
<td></td>
<td>Technologist I</td>
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<td>7.</td>
<td>OSAYANDE, I.</td>
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<td>Technologist II</td>
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**Summary**

- No. of Full-Time = 9
- No. of Part-Time = Nil
- No. of Females = 1
- No. with PhD = 3
- No. of Pharmacist = 5
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<tr>
<td>1</td>
<td>OKE, J.M. (PROF)</td>
<td>Medical Chemistry</td>
<td>M.Sc. Zapororjie (Ukraine) 1978, Ph.d Kharkov (Ukraine 1982), MPSN</td>
<td>Professor &amp; Dean</td>
<td>4th October 2005</td>
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<tr>
<td>2</td>
<td>ADELUSI, S.A. (PROF.)</td>
<td>Pharmaceutical Analysis</td>
<td>B.Sc (Ibadan) 1973, M.Sc. (Stratheldy) 1977, Ph.D 2006 (Benin), MPSN</td>
<td>Visiting Professor</td>
<td>1st February 2009</td>
<td>Associate Lecturer (Part-Time)</td>
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<tr>
<td>3</td>
<td>UME, O. (MISS)</td>
<td>Pharmaceutical Analysis</td>
<td>B.Sc. Biochemistry (UNN), M.Sc Pharm. Chemistry (ABU)</td>
<td>Lecturer II</td>
<td>1st June 2011</td>
<td>Full-Time</td>
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<tr>
<td>4</td>
<td>ADENIYI-AKKE, M.A.</td>
<td>Pharmaceutical Analysis</td>
<td>B.Sc. 1995 (Ibadan), M.Sc 2011 (Ibadan)</td>
<td>Assistant Lecturer</td>
<td>September 2010</td>
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<tr>
<td>6</td>
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<td>OSIGBEMHE, A.J.</td>
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<td>Laboratory Assistant</td>
<td>1st February, 2009</td>
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### Summary

- No. of Full-Time = 8
- No. of Part-Time = 2
- No. of Females = 3
- No. with PhD = 3
- No. of Pharmacist = 3

### DEPARTMENT OF PHARMACEUTICS & TOXICOLOGY

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<td>Cardiovascular Pharmacology &amp; Toxicology</td>
<td>B.Pharm. (Hons) 1990, MSc 1997, PhD 2003 (Benin) MPSN</td>
<td>Visiting Reader</td>
<td>3rd September 2007</td>
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<td>2</td>
<td>OKPO,</td>
<td>Ethnopharmacology</td>
<td>B.Sc 1990, M.Sc. (Lagos)</td>
<td>Senior Lecturer</td>
<td>3rd September</td>
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<td>OSIFO, N.G.O.</td>
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<td>B.Sc, MBBS (Benin) MSc, Ph.D Pharmacology</td>
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<td>NWANZE, J.C. (DR)</td>
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<td>MBBS (Benin), M.Sc. Pharmacology, Ph.D</td>
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<td>13th April 2004</td>
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<td>B.Pharm (Hons) 1996, M.Sc. 2005 (Benin), MPSN</td>
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<td>OBASEKI-EBOR, E.G. (PROF.)</td>
<td>Molecular Biology &amp; Bacterial Genetics</td>
<td>B.Pharm. (Hons.) 1975 (Benin), Ph.D 1980 (Edinburgh)</td>
<td>Visiting Professor</td>
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<td>OLADEIDE, B.H.</td>
<td>Medical Microbiology</td>
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<td>No.</td>
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<td>ND Sci. Lab. Tech. 2006, HND, Microbiology 2009, AMISLT</td>
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<td>EDAFE ARUSI</td>
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<td>19&lt;sup&gt;th&lt;/sup&gt; November 2010</td>
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**Summary**

- No. of Full-Time = 7
- No. of Part-Time = 5
- No. of Females = 1
- No. with PhD = 7
- No. of Pharmacist = 5
# DEPARTMENT OF CLINICAL PHARMACY & PHARMACY PRACTICE

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<td>Clinical Pharmacy and Pharmacy Practice</td>
<td>B.Pharm (Hons) 1997, M.Pharm 2000, Ph.D. 2006 (Benin) MPSN</td>
<td>Professor</td>
<td>1st February 2009</td>
<td>Adjunct Lecturer (Part-Time)</td>
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<td>Clinical Pharmacy and Pharmacy Practice</td>
<td>B.Pharm (Hons) 1991, M.Pharm (Benin) 2000, Ph.D. 2013, MPSN</td>
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<td>SONI, J.S. (DR)</td>
<td>Pharmacy Practice and Pharmaceutical Care</td>
<td>B.Pharm. (Hons) 2006, Pharm.D 2007, M.Pharm 2014, MPCPharm 2012</td>
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<td>1st August 2014</td>
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**Summary**
- No. of Full-Time = 3
- No. of Part-Time = 2
- No. of Females = Nil
- No. with PhD = 2
- No. of Pharmacist = 5
## Department of Pharmacognosy

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<tr>
<td>1</td>
<td>Obolade, A.A. (Prof.)</td>
<td>Pharmacognosy</td>
<td>B.Pharm 1980 (OAU), M.Sc. 1984 (OAU), Ph.D. 1989 (Manchester) MPSN</td>
<td>Professor &amp; HOD</td>
<td>1st August 2015</td>
<td>Full-Time</td>
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<tr>
<td>7</td>
<td>Ikhile, B.U.</td>
<td>Compounding &amp; Dispensing</td>
<td>Technician’s Cert. Part I &amp; II, Diploma in Laboratory Management</td>
<td>Assistant Chief Technologist</td>
<td>1st September 2005</td>
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<td>8</td>
<td>Ighodaro, Mary</td>
<td>Compounding &amp; Dispensing</td>
<td>Diploma in Pharmacy</td>
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**Summary**

- No. of Full-Time = 10
- No. of Part-Time = Nil
- No. of Females = 1
- No. with PhD = 3
- No. of Pharmacist = 1
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<td>2</td>
<td>AKPAN, O.L. (MRS.)</td>
<td>ND in Secretarial Admin. 50WPM Typewriting, Computer Literate Cert.</td>
<td>Conf. Sec. II/Deans Secretary</td>
<td>10th May 2006</td>
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<tr>
<td>3</td>
<td>IKPONMWOSA, A. (MRS.)</td>
<td>Dip. in Computer</td>
<td>Secretary, Dept. of Pharm. &amp; Pharm. Technology</td>
<td>10th May 2006</td>
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<td>5</td>
<td>ATAMAH, R. (MRS)</td>
<td>SSCE, Typist II</td>
<td>Secretary, Dept. of Pharmacology and Toxicology</td>
<td>10th May 2006</td>
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<td>ABOLARI, E. (MRS)</td>
<td>NCE, ENG/SOS, 50 WPM Typewriting</td>
<td>Secretary, Dept. of Pharmaceutical Microbiology</td>
<td>11th May 2006</td>
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<td>CACOS T.</td>
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<td>OME, E.H. (MISS)</td>
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<td>Secretary, Dept. of Clinical Pharmacy and Pharm. Practice</td>
<td>May 2015</td>
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<td>ADEWARA, F.O. (MISS)</td>
<td>HND, Office Tech. Mgt.</td>
<td>Office Assistant</td>
<td>November 2014</td>
<td>Full-Time</td>
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<tr>
<td>10</td>
<td>IRENE, R. (MRS)</td>
<td>WAEC</td>
<td>Cleaner</td>
<td>1st June 2001</td>
<td>Full-Time</td>
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</table>
OBA EREDIAUWA COLLEGE OF LAW

STAFF LIST

A. Dean’s Office
   Prof. Rasheed J. Ijaodola - Dean
   LL.B, LL.M Ph.D

   Mr. Osere C. Osunbor - College Officer
   ........

   ___________ - College Secretary
   ............

   Mrs. Esquire O. Evelyn - Cleaner

   Mrs. Irene Beauty - Cleaner

B. Sub-Dean
   Dr. Anya K. Anya - Sub-Dean
   LL.B, LLM, Ph.D, BL

C. Department of Public/Jurisdiction/Jurisprudence & International Law
   Dr. D. U. Ibe - Senior Lecturer/HOD
   LL.B (Uniben), LL.M (Uniben), BL, Ph.D

   Dr. A. K. Anya - Senior Lecturer
   LL.B (Uniben), LL.M (Unilag), BL, Ph.D

   Dr. C. E. Ochem - Senior Lecturer
   LL.B, LL.M, BL, Ph.D

D. Department of Business Law
   Mr. J. Nwazi - Senior Lecturer/Ag. HOD
   LL.B (NAU), LL.M, BL

   Prof. A. I. Onyekagbu - Professor
   LL.B (UNN), LL.M (AAU), LL.M (LASU),
   BL, Ph.D

   Dr. Nat Ofo - Senior Lecturer
   LL.B (ABSU), LL.M (Lagos), BL, Ph.D

   Dr. B. M. O. Oseghale - Senior Lecturer
   LL.B, LL.M, BL, Ph.D
Dr. Rita Okpeahor

- Senior Lecturer

LLB, LLM, PhD, BL

E. Department of Private and Property Law

Dr. O. G. Izevbuwa

- Reader/HOD

LLB (Uniben), LL.M (Uniben), BL, Ph.D

Prof. C. U. Emaviwe FClArb

- Professor

LLB (Ife), LL.M (AAU), BL, Ph.D.

Dr. Felix O. Okpe

- Senior Lecturer

LLB, LLM, Ph.D

Mrs. Ugiomo Eruteya

- Lecturer I

LLB (Uniben), LL.M (Uniben), BL

Mr. J. Abusomwan

- Lecturer I

LLB (Uniben), LL.M (AAU), BL

Mrs. H. O. Oriaifo

- Lecturer II

LLB (AAU), LLM, BL

Mrs. Opeyemi Bayode

- Lecturer II

LLB, LLM, BL

Mr. Lugard Emokpae

- Lecturer II

LLB, LLM, BL

Section I: Philosophy and Objectives of the LL.B Programme

The Law Programme is tailored after the National University Commission’s guidelines which emphasize the need for Law graduates to be knowledgeable in other fields of human endeavour, such as Psychology, Economics, Philosophy, etc., so as to fully appreciate analyze and understand the important role that law plays in the Nigerian Society in particular and the entire humanity in general.

Section II: Admission Requirements

The College operates the Course Union System and its admission requirements are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Direct Entry</th>
<th>GCE/SSCE Subjects</th>
<th>JAMB Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL.B</td>
<td>At least two (2) “A” Level Passes in Arts &amp; Social Science subjects. O’ Level Credit passes in</td>
<td>Credit passes in English Language &amp; three (3) other subjects in Art or Social Sciences.</td>
<td></td>
</tr>
</tbody>
</table>
English Language & English Literature are Compulsory.

a. A candidate who wished to transfer from another University must possess the minimum entry requirement for Admission to the College of Law. Application Forms are obtainable from the Admission Office of the University. Application for transfer to the College will be treated on its own merit.

b. Applications for course leading to first degree (i.e. in respect of “a” above) must be on the proscribed forms obtained from the Registrar, Joint Admissions and Matriculation Board, Abuja.

c. In addition to A and C above, suitable candidates will be required to submit themselves for a written test, followed by an oral interview.

d. Upon admission, students shall pay to the University all fees prescribed by the University, and observe all such regulations as are related to registration and matriculation.

Section III: Matriculation and Registration

(a) Matriculation
All new students are formally admitted to the University at Matriculation. At this ceremony, new students must take the Matriculation Oath and sign the Register of Matriculated Students of the University. Nobody may claim to be a student of this University until he/she had duly completed all matriculation formalities.

(b) Registration C/WINDOWS
i. All students shall register for their programmes of study in the university at the beginning of each academic year in accordance with the rules made from time to time by the University.

ii. A student shall be deemed not to have registered for his/her programme of study if three weeks after the beginning of the session he/she had not completed his/her registration. Only in most unusual circumstances and with the special permission of the Registrar or his Representative, will any student be permitted to register after the appointed date. Under no circumstance shall any student other than occasional or postgraduate student register five weeks after the beginning of the academic year.

A fee will be charged for late registration. The procedure for registration shall include the following:

(i) Payment of fees, dues and other charges.
(ii) Careful entry of all information required to be filled in the Registration Form
(iii) Obtaining thereon, the signature of all appropriate University authorities.
(iv) Returning the completed Registration Forms to their respective College Officers not later than the closing date appointed for registration.

(c) Changes of Courses/Programmes of Study
At registration, students must first seek the advice of their Head of Departments regarding the choice of course/programmes of study in order to avoid frequent and unnecessary changes after registration. Students, who have genuine reason to change courses after the initial registration at the beginning of the session, must do so in the prescribed manner not later than two weeks after the last day of registration. For fresh students, no change of courses/programmes of study may be permitted to add and or to delete course within the first two weeks of the second semester. “Add and Delete Form may be obtained from the Academic Office after payment of the prescribed fee.

Section IV: Scheme of Study
(a) A five year programme of courses shall be provided leading to the Degree of Bachelor of Law, to be denoted by the letter LL.B., which may be awarded with Honours or a pass Degree save for direct entry students who shall undergo four years programme of courses.
(b) Instructions in the College Board shall be by courses and students will be required to take such an approved combination of courses as the Senate may, on the recommendations of the College Board from time to time determine.
(c) Tutorial classes will be conducted in all courses, the attendance of which is defined as one lecture contact per week. This shall be fashioned in line with discussion groups in line with what operates in the Law School including the use of e-mails to forward teaching materials to students.
(d) Courses shall be evaluated in terms of course units. One course unit shall be defined as one lecture per week.
(e) A student shall be allowed to write his/her examination if he/she has at least 75% (seventy-five percent) class attendance during the semester.
(f) There shall be five levels of courses numbered.

111 – 199
211 – 299
311 – 399
411 – 499
511 – 599

Course numbers shall be prefixed by a three character programme subject/department code. Determination of the class of Degree shall be based on performance at all levels.

(g) The following Terminologies shall be used by the College:

i. Compulsory: Course specified by the College which a student must take and pass.

ii. Required: A course specified by the Department which a student must take but not necessarily pass. Where there is a group of such courses, the Department may specify the minimum number of units to be passed.
iii. **Continuous Assessment**: Shall be regarded as part of course examinations, but marks scored through Continuous Assessment shall not constitute more than 30% (thirty percent) of the full marks of the course.

iv. The approved period of study for the award of the Degree shall not be less than 10 Semesters for JME Students and 8 Semesters of Direct Entry Students.

v. All courses taught during each semester shall be examined at the end of the semester and candidates will be credited with the numbers of course units assigned to the course which they have passed.

vi. In addition, the total number of units taken along with the grades obtained in each course shall also be recorded for the purpose of computing the Cumulative Grade Point Average (CGPA).

vii. The Weighted Grade Points of all courses taken shall be used for the determination of the class of degree.

viii. Students shall normally be required to register for prescribed minimum number of units on the recommendation of the College Board.

ix. The minimum number of course units for the award of a degree shall be 172 for the four year programme and 200 for the five year degree programme.

x. The degree shall be awarded with honours provided a student obtains a Cumulative Point Average that is not less than 1.6 and satisfies other honours required.

xi. For the award of a pass degree, a student must obtain the minimum number of units specified in (ix) above, and also pass the compulsory course specified by the Department.

xii. Grades to be used for students who completed the workload of a course by the end of the semester are:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Points</th>
<th>Marks(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>70 – 100</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>60 – 69</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>50 – 59</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>45 – 49</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>44 – 0</td>
</tr>
</tbody>
</table>

The Cumulative Grade Point Average (CGPA) and various classes of degrees shall be based on the numerical points tabulated below:

(b) Cumulative Grade

<table>
<thead>
<tr>
<th>Cumulative Grade</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First Class Honours</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>Second Class Honours (Upper Division)</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second Class Honours (Lower Division)</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>Third Class</td>
</tr>
<tr>
<td>1.00 – 1.49</td>
<td>Pass</td>
</tr>
</tbody>
</table>

xiii. In order to obtain the Cumulative Grade Point Average of a candidate, the course unit multiplies the appropriate index (Grade Point) assigned to each range of numerical mark and the product is added up to give the total
weighted grade point. The total is divided by the total number of course units taken (pass or fail).

xiv. A student who had taken more than one academic year in excess of the approved minimum period of study to complete a degree programme shall not normally be eligible for an honours classified.

xv. The maximum period for an Honours Degree shall be 10 semesters for a four-year programme and 12 semesters for a five-year degree programme.

xvi. A student shall normally be required to withdraw from the College if he/she fails to achieve the minimum standard, which the Senate on the recommendation of the College Board may from time to time prescribe.

xvii. The list of successful candidate for the degree shall be published with the following classifications:

First Class Honours
Second Class Honour (Upper and Lower Divisions)
Third Class Honours
Pass

xviii. A student who had not been accorded with total minimum of units specified by the College Board at the end of each year of registration shall be asked to withdraw from the College.

xix. Examinations.
The following procedures and guidelines are operatives:

a) The time allowed for written examination shall normally be on the basis of not less than 1 hour for one unit course. In any case, the time allowed for any one theory papers shall not exceed three hours.

b) Not more than one course shall be examined in one paper.

c) Other forms of examination may include practical examinations, inspection and assessment of practical work, note books, project works, special reports and the forms of the examinations must be specified by the Department concerned and approved by the Senate on the recommendation of the College Board.

d) There shall be a panel of Examiners for a set of course at each level. Each panel shall consist of not less than 3 Internal Examiners, one of whom shall be designated as Chief Examiner. The panel shall be responsible for each set of courses and shall set and moderate the questions and mark the answer scripts. The panel shall jointly sign the draft question papers and the examination results before these are submitted to the Examination Officer. Where a panel consists of more than two members, the absence of a member shall not effect the validity of a draft question paper or an examination result.

e) The External Examiner shall participate in the conduct of the 500 level examinations, and the determination in the conduct of the overall results in accordance with general regulations relating to the duties of External Examiner.

f) No candidate shall be permitted to proceed to the next successive level if such candidate obtained less than 1.00 GPA at the end of any academic session.
xx. Grading
   a) All courses shall be graded out of a maximum of 100 marks and all marks shall be returned in numerical scores.
   b) All candidates who obtain less than 45 marks shall be deemed to have failed the course.
   c) Direct Entry and Transfer candidate must register for, and pass the Law course in year 1, i.e. Legal Methods I and II (JIL 111 and JIL 121) in addition to the courses required in year II (i.e. 200 level).

xxi. Course Identification
   Every course taught by the College of Law is identified by a three letter Code as indicated below, followed by the course number.

xxii. Course Code
   Research Project LAW
   (Common to all the Departments)
   Courses taught by all the Departments of Public and International Law – PUL/JIL
   Courses taught by the Department of Private and Business Law – PPL/BUL

xxiii. University Requirement Course (GST)
   a) A University requirement course is a course which must be registered for and passed before the degree is awarded. The grade obtained in the course is recorded for the purpose of computing the Cumulative Grade Point Average (CGPA).
   b) All students shall register and pass 9 units from the General Studies Programme courses including the Use of English (GST 111) and the followings:
      • GST 112 - Nigeria History and Culture (2 units)
      • GST 121 - Use of English (2 units)
      • GST 122 - Science for Development (2 units)
      • GST 123 - Introduction to Computer (2 units)
   c) Examinations in GST 111 and GST 112 are usually taken in the first semester, while examinations in GST 121, GST 122 and GST 123 are usually written in the second semester.
   d) No student is permitted to register for more than 3 GST courses in one session and registration takes place at the beginning of each session.

xxiv. Exemption from GST Courses:
   a) A student may be exempted from any course in respect of GST requirement after an examination of his/her Transcript or Student Academic Record.
   b) A student desiring to be exempted from course under this regulation must normally apply to the College Board for exemption.
xxv. Withdrawal from the University
   a) 100 Level:
      At the end of the first year, student with CGPA of less than 1.0 and who
      had passed less than 15 units should be asked to withdraw from the
      University.

   b) 200 Level:
      At the end of the second year, a student who had passed less than 30
      units (cumulative) shall be asked to withdraw from the University.

   c) 300 Level:
      At the end of he third year, a student who had passed less than 45 units
      (cumulative) should be asked to withdraw from the University.

Section V: College Requirement for LL.B Degree
   1) Any 100 levels student or a fresh 200 level student who scores below an average
      of forty-five (45) percent in his or her core courses at the end of the second
      semester examination shall be asked to withdraw from the College.
   2) Any student in the College who fails more than eight (8) courses or has a carry-
      over of the same number of Courses at the end of the second semester
      examination shall be asked to repeat the session in question.

Section VI: Curriculum
The following Courses shall be offered:

### 100 Level - First Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>JIL 111*</td>
<td>Legal Method I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PHL 111</td>
<td>Introduction to Logic I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ENG 114</td>
<td>Introduction to Prose Fiction I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ECO 111</td>
<td>Principles of Economics I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>POL 111</td>
<td>Introduction to Political Science I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>SOC 111</td>
<td>Introduction to Sociology I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 111</td>
<td>Use of English I</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 112</td>
<td>Nigerian History &amp; Culture I</td>
<td>2</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

**Total**: 22

### 100 Level - Second Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>JIL 121*</td>
<td>Legal Method II</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PHL 121</td>
<td>Introduction to Logic II</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ENG 124</td>
<td>Introduction to Drama</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>ECO 121</td>
<td>Principles of Economics II</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 121</td>
<td>Use of English II</td>
<td>1</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 122</td>
<td>Science of Development</td>
<td>2</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>
GST 123 Introduction to Computer 2 Compulsory

**Total** 21

### 200 Level - First Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUL 211</td>
<td>Nigerian Legal System I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PUL 212</td>
<td>Constitutional Law I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>BUL 211</td>
<td>Law of Contract I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>JIL 111*</td>
<td>Legal Method I</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 111*</td>
<td>Use of English I</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 112*</td>
<td>Nigerian History &amp; Culture I</td>
<td>2</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

**Total** 19

**Note:** Courses asterisked are to be offered by Direct Entry Students only.

#### A. Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUL 213</td>
<td>Human Rights Law</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>PPL 211</td>
<td>Labour Law</td>
<td>4</td>
<td>Elective</td>
</tr>
</tbody>
</table>

#### B. Non-Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 211</td>
<td>Social Psychology</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>POL 211</td>
<td>Introduction to Nigerian Govt. II</td>
<td>3</td>
<td>Elective</td>
</tr>
</tbody>
</table>

### 200 Level - Second Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUL 221</td>
<td>Nigerian Legal System II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PUL 222</td>
<td>Constitutional Law II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>BUL 221</td>
<td>Law of Contract II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>JIL 121*</td>
<td>Legal Method II</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 121*</td>
<td>Use of English II</td>
<td>2</td>
<td>Compulsory</td>
</tr>
<tr>
<td>GST 122*</td>
<td>Science of Development</td>
<td>2</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

**Total** 19

**Note:** Courses asterisked are to be offered by Direct Entry Students only.

#### A. Non-Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 221</td>
<td>Social Psychology II</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>POL 221</td>
<td>Nigerian Govt. &amp; Politics II</td>
<td>3</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**Note:** All students in the 200 level class only are required to choose one course each from A & B above. Moreover, Direct Entry Students should be encouraged to apply for a waiver in the two GST courses in both semester, in order to comply with the National Universities Commission Maximum Credit Units for any semester.
**300 Level - First Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUL 311</td>
<td>Criminal Law I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PPL 311</td>
<td>Law of Torts I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>BUL 311</td>
<td>Commercial Law I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>LAW 399</td>
<td>Application of Computer to Law</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

A. Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 322</td>
<td>Law of Banking I</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>PPL 312</td>
<td>Family Law I</td>
<td>4</td>
<td>Elective</td>
</tr>
</tbody>
</table>

B. Non-Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 214</td>
<td>Criminology &amp; Penology</td>
<td>3</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**300 Level - Second Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUL 323</td>
<td>Criminal Law II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PPL 321</td>
<td>Law of Torts I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>BUL 321</td>
<td>Commercial Law II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>

A. Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUL 323</td>
<td>Law of Banking II</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>PPL 322</td>
<td>Family Law II</td>
<td>4</td>
<td>Elective</td>
</tr>
</tbody>
</table>

B. Non-Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 255</td>
<td>Criminology &amp; Penology</td>
<td>3</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**400 Level - First Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPL 411</td>
<td>Land Law I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PPL 412</td>
<td>Equity &amp; Trusts I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PUL 411</td>
<td>Law of Evidence I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>

A. Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUL 413</td>
<td>Administrative Law I</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>PUL 412</td>
<td>Environmental Law I</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>JIL 412</td>
<td>International Law</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>BUL 414</td>
<td>Insurance Law I</td>
<td>4</td>
<td>Elective</td>
</tr>
</tbody>
</table>
### B. Non-Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 314</td>
<td>Politics of Development &amp; Underdevelopment</td>
<td>3</td>
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#### 400 Level - Second Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PPL 421</td>
<td>Land Law II</td>
<td>4</td>
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<tr>
<td>PPL 422</td>
<td>Equity &amp; Trusts II</td>
<td>4</td>
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<tr>
<td>PUL 421</td>
<td>Law of Evidence II</td>
<td>4</td>
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<tr>
<td>LAW 499</td>
<td>Research Methodology in Law</td>
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**Total** 15

### A. Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PUL 423</td>
<td>Administrative Law II</td>
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<tr>
<td>PUL 422</td>
<td>Environmental Law II</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>JIL 422</td>
<td>International Law II</td>
<td>4</td>
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</tr>
<tr>
<td>BUL 424</td>
<td>Insurance Law II</td>
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### B. Non-Law Elective Courses

<table>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>POL 323</td>
<td>Comparative Federalism</td>
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#### 500 Level - First Semester

<table>
<thead>
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<tbody>
<tr>
<td>JIL 511</td>
<td>Jurisprudence &amp; Legal Theory I</td>
<td>4</td>
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<tr>
<td>BUL 511</td>
<td>Law of Business Association I</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PUL 518</td>
<td>Civil &amp; Criminal Procedure I</td>
<td>4</td>
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<tr>
<td>LAW 599</td>
<td>Long Essay</td>
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**Total** 16

#### Law Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit</th>
<th>Remark</th>
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<tbody>
<tr>
<td>PUL 513</td>
<td>Law of Arbitration I</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>PUL 514</td>
<td>Oil and Gas Law I</td>
<td>4</td>
<td>Elective</td>
</tr>
<tr>
<td>PPL 512</td>
<td>Conveyancing I</td>
<td>4</td>
<td>Elective</td>
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<tr>
<td>PUL 515</td>
<td>Healthcare Law I</td>
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#### 500 Level - Second Semester

<table>
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<tr>
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<tbody>
<tr>
<td>JIL 521</td>
<td>Jurisprudence &amp; Legal Theory II</td>
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<tr>
<td>BUL 521</td>
<td>Law of Business Association II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
<tr>
<td>PUL 528</td>
<td>Civil &amp; Criminal Procedure II</td>
<td>4</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>
Course Description

JIL 111: Legal Method (First Semester) (3 Units Compulsory)
Law in Social Context: Nature and Functions of Law in Society; Law, Order and Justice; Law and Freedom; Law and Sovereignty.
Legal Reasoning and Approach to Problems – Language of the Law; Principles; Standards and Issues in Law, Formality and Precision in the use of Language and Distinctiveness of Legal Language; Legal Rhetoric and Legal Logic; Legal reasoning and Practical reasoning; Legalism, Legal reasoning in Judicial processes-sifting of facts and law in courts ration decedendi, Legalism, Legal reasoning in Legislation – Legislative Proposals, Legislative Drafting Ambiguity, Vagueness Open Texture, Semantics of Law Legislative Process, Construction of Statutes, Types of Legislation, Codification of Laws.

JIL 121: Legal Method 1 (Second Semester) (3 Units Compulsory)
Sources of Law: Primary Source, Statutory Materials and Judicial Materials; Secondary Sources: Books and Pamphlets; Letters, Speeches; Interviews, Periodicals and Newspapers; Foreign materials.
Legal Writing: Methods and Approaches in Easy Writing; Styles of Writing, Analysis of Social and Legal Issues and Application of Legal Rules; Division of Topics into Chapters, Section and Subsections.

PUL 211: Nigerian Legal System (First Semester) (4 Units Compulsory)
The Idea of a Legal System: Nature and Functions of Law, Classification of Law, Sources’ of Nigeria Law: Legislation; Judicial Precedents; Case Law; Customary Law;
Islamic Law, English Common Law, and Doctrines of Equity, Reception and Application of English Law in Nigeria.

**PUL 221: Nigerian Legal System II (First Semester) (4 Units Compulsory)**

**PUL 212: Constitutional Law I (First Semester) (4 Units Compulsory)**

Constitutional Breakdown: The Legal Consequence of the Change of Government by Extra-Constitutional means (e.g. coup d’etat). The Military in Government, the period between January 15, 1966 and October 1, 1979, January 1984 to date.

**PUL 222: Constitutional Law II (Second Semester) (4 Units Compulsory)**

BUL 211:  Law of Contract 1 (First Semester) (4 Units Compulsory)
Contents of Contact; Terms, Representations, Excluding and Limiting terms and Fundamental Breach of terms. Capacity: Infants, Illiterates, Corporations, Mental Patients and Drunken persons.

BUL 221:  Law of Contract II (Second Semester) (4 Units Compulsory)

PPL 211:  Labour Law or Industrial Law I (First Semester) (4 Units Elective)

PPL 222: Labour Law or Industrial Law II (Second Semester)
(4 Units Elective)

PUL 213:  Human Rights Law I (First Semester) (4 Units Elective)

POL 211:  Introduction to Nigerian Government 1 (First Semester)
(3 Units Elective)
The relevance of the above content to Law and Jurisprudence should be emphasized.
POL 221: Nigerian Government and Politics II (Second Semester)  
(3 Units Elective)  
The relevance of the above content to Law and Jurisprudence should be emphasized.

PSY 211: Social Psychology 1 (First Semester) (3 Units Elective)  
The relevance of the above content to Law and Jurisprudence should be emphasized.

PSY 221: Social Psychology II (Second Semester) (3 Units Elective)  
The relevance of the above content to Law and Jurisprudence should be emphasized.

PUL 311: Criminal Law I (First Semester) (4 Units Compulsory)  

a. Provocation  
b. Insanity  
c. Intoxication  
d. Mistake  
e. Private Defence (Self Defence and the Defence of Property)  
f. Accident  
g. Bonafide Claim of Right  
h. Immaturity  
i. Necessity  
j. Extraordinary Emergencies  
k. Immaturity

PUL 321: Criminal Law II (Second Semester) (4 Units Compulsory)  
Preliminary or Inchoate Offences: Attempts and Conspiracy, Offences against the Person, Unlawful Homicide (Murder and Manslaughter), Assault, Offences against Property, Stealing, Burglary and Housebreaking, Robbery, Malicious Damage to Property, Receiving Stolen Property, Sexual Offences: Rape, Indecent Assault to Females, Defilement, Corroboration in Sexual Offences, Offences against the State and against Public Order, Treason and Treasonable Felony, Sedition, Corruption, Affray, Rioting, Theories and Types of Punishment, General Principles of Sentencing.

PPL 311: Law of Torts I (First Semester) (4 Units Compulsory)  
Historical background and General Principles of Tortuous liability (Defences will be considered in relation to each Tort); Trespass to person, Assault to land, Trespass to Chattel, Conversion and Detinue, Negligence and damages, including Remoteness of Damage, Occupiers’ Liability.

PPL 322: Law of Torts II (Second Semester) (4 Units Compulsory)  
Nuisance: Rylands v. Fletcher, Liability for Animals, Malicious Prosecution, Nuisance, Vicarious Liability, Defamation, Death ad cause of Action, Fatal Accident, Deceit,

**BUL 311: Commercial Law I (First Semester) (4 Units Compulsory)**

**BUL 321: Commercial Law II (Second Semester) (4 Units compulsory)**

**LAW 399: Application of Computer Law (4 Units Compulsory)**

**BUL 321: Law of Banking I (First Semester) (4 Units Elective)**
Banking: Nature, History and evolution of Banking in Nigeria. Law regulating the Establishment and Operation of Banks and instruments, including Cheques, Promissory Notes, Bills of Exchange, etc. Negotiability and Assignability, Endorsement and Delivery, Presentment and Notice of Dishonour of other Financial Institutions, Control, Money Laundering and Role of Financial Institutions, etc.

**BUL 322: Law of Banking II (Second Semester) (4 Units Elective)**
Banking – Customer Relationship including the Nature and Legal efforts of Bank Account, Overdrafts, Bank Notes, Cheques and their Crossing etc. Mortgages and foreclosures etc. Forgeries, Conversions, Securities and Advances.

**PPL 312: Family Law I (First Semester) (4 Units Elective)**

**PPL 322: Family Law II (Second Semester) (4 Units Elective)**
Jactitation of Marriage, Judicial Separation, Dissolution of Statutory, Customary and Islamic Marriages. Bar to Dissolution of Statutory Marriages, Custody of Children,

**SOC 222: Criminology & Penology (First Semester) (3 Units Elective)**
The meaning, Nature and Scope of Criminology, the Evolution of Criminological thought, Phenomenology, Actiology of Crime and Victimlogy, Legal principles relating to insanity, metal deficiency and other form of mental incapacity. Criminological aspects of victimless crimes. The Criminology of enforcement. Criminology forecasting and planning.

The Legal and Jurisprudential flavour of the above content should be emphasized.

**SOC 223: Criminology and Penology (Second Semester) (3 Units Elective)**
Drug additional Alcoholism, Juvenile Delinquency, Theories of punishment, the law governing sentencing and court orders made in respect to criminal cases, Sentencing Practice, Treatment Techniques and Strategic and Criminological and Criminological Research Methods.

The Legal and Jurisprudential flavour of the above content should be emphasized.

**BUL 422: Insurance Law I (First Semester) (4 Units Elective)**

**BUL 424: Insurance Law II (Second Semester) (4 Units Elective)**
Underwriting and reinsurance Claims and Settlement of Claims, State Control of Insurance Business, Recapitalization of Insurance business.

**PPL 411: Land Law I (First Semester) (4 Units Elective)**
Introduction: Historical Evolution of Land Law; Sources of Nigeria land law, Terminology, Ownership, Possession, Titles, Rights, Liability in Land, etc. Customary Land Law; Modes of Acquiring title to Land Settlement, Expansion, Loan or Borrowing, Pledge or Pawn, Gift, Conquest, Allotment, Kola Tenancy, Concept and Ownership of land (i) nature of Title to land (ii) Control and Management of Community Land individual fights and extent of community land today (iii) Creation of Family Land; Nature and extent of member’s right in Family Land, Control of Family Land, Alienation of Family Land, Recovery of family land, improvement by a member on family land, termination of family land (iv) An outline of Succession of Right of Land.

**PPL 421: Land Law II (Second Semester) (4 Units Compulsory)**
inland; Freehold, Joint Tenancy, Tenancy in Common Prescription, Laches and Acquiescence, Leasehold, Easement, Profit a Pender Covenants, Mortgages, Registration, Registration of Instruments, Registration of Title.

**PPL 412: Equity & Trusts I (First Semester) (4 Units Compulsory)**

**PPL 422: Equity & Trusts II (Second Semester) (4 Units Compulsory)**

**PUL 413: Administrative Law I (First Semester) (4 Units Elective)**

**PUL 423: Administrative Law II (Second Semester) (4 Units Elective)**
Administrative Law and Adjudication, Powers of Administration; Administrative: Administrative Invasion of Tribunal of the people’s legal right and delegations, tribunal and inquiries. Judicial Control of Administrative decision and Judicial Power of Administration.

(a) Ground of Judicial Review, e.g. Ultra Vires, Natural Justice and Error or Law, Impediments to Judicial Review.
(b) Remedies, e.g. Certiorari, Prohibition, Mandamus, Declaration, Injunction, Habeas Corpus, Damages and Appeal and Ombudsman.
(c) Action by and against the State, Corporation, including Local Government Councils, Liability of Public Officers.

**PUL 412: Environmental Law I (First Semester) (4 Units Elective)**
Definition and Scope of Environmental Law. An Analysis of the Legal, Political, Social and Economic dimensions of Environmental problems and the influence on the selection of Environmental Control legislation on salient issues, e.g. Pollution, Sanitation and Public and Public Health and Conservation. The National Policy on Environment for Nigeria and concept of Sustainable Development. The sources and types of Environmental Pollution and the various control and management techniques. The statutory/regulatory framework of laws of pollution. The Constitutional right to Environmental quality; the scope of Environmental legislation; the development and
problems of citizens initiated environmental litigation. Federal, state and Local responses to the problems of maintain environmental standards. Institutions responsible for environmental protection and management, Local and International.

**PUL 422: Environmental Law II (Second Semester) (4 Units Elective)**

**PUL 411: Law of Evidence I (First Semester) (4 Units Compulsory)**

**PUL 421: Law of Evidence II (Second Semester) (4 Units Compulsory)**

**JIL 412: International Law I (First Semester) (4 Units Elective)**

**JIL 422: International Law II (Second Semester) (4 Units Elective)**
POL 314: Political Development & Underdevelopment (First Semester)
(3 Units Non-Law Elective)
What is Development and Underdevelopment, Definition and Meaning of Poverty, Deficiency, and gap between the rich and the poor; Theories of Development, Modernization, Roles of Development Agencies, Globalization and the Nigeria Society, Socio-Economic Inequality, Urban Rural Development.

The relevance of the above contents to Law and Jurisprudence should be emphasized.

POL 323: Comparative Federalism (Second Semester)
(3 Unit Non-Law Elective)

The relevance of the above contents to Law and Jurisprudence should be emphasized.

JIL 511: Jurisprudence & Legal Theory I (First Semester)
(4 Units Compulsory)

JIL 521: Jurisprudence & Legal Theory II (Second Semester)
(4 Units Compulsory)

BUL 511: Law of Business Association I (First Semester) (4 Units Compulsory)
BUL 521: Law of Business Association II (Second Semester) (4 Units Compulsory)
Company Security, Shared and Debentures; Becoming and Ceasing to be a Shareholder; Transfer of Share; Fixed and Floating Charges. Directors and other Officers; Appointment, Removal, Duties Right and Power, Meeting, Resolution, Majority Powers and Minority Rights; Prevention of Oppression and Mis-Management. Reconstructions and Take-overs. Winding up in (in outline), Partnership: Relationship, Relation of Partners inter se and to third parties, Dissolution of Partnership.

LAW 599: Long Essay (First & Second Semesters) (6 Units Compulsory)
A long Essay on a suitable legal topic approved by the College. The essay must be the result of research effort conducted under the Supervision of a member of the Academic Staff. The Essay must not be more than 80 quarto pages of double space typing. Each final year student will have approved for him or her, a topic of research at the beginning of the final year. Such a Candidate will be expected to produce a well-research essay containing a minimum of 10,000 words under the Supervision of a member of the Academic Staff.

PUL 513: Law of Arbitration I (First Semester) (4 Units Elective)
Deals primarily with meaning, Nature and Scope of Arbitration Agreement. Types of Arbitration Agreements. Appointment of Arbitrators and Revocation of mandate of an Arbitrator, Termination of Arbitration Arbitral Proceeding, Award (types, forms and content of Arbitral award), cost of Arbitration, Court and Arbitration, Impeachment Enforcement of Award and time Limitation for Enforcement of Award.

PUL 514: Law of Arbitration II (Second Semester) (4 Units Elective)
This Course examines the meaning and nature of International Arbitration in Nigeria, different forms of International Arbitration, Conventional Arbitration Practice in Nigeria N.Y. Convention and ICSID Convention, International Arbitration proceedings, Awards: Nature and Forms, Impeachment of International Awards, Enforcement of International Arbitral Awards, Enforcement of Lex Mantoria Award, Rules in International Arbitration.

PUL 518: Civil Procedure I (First Semester) (4 Units Compulsory)

PUL 528:  Criminal Procedure II (Second Semester) (4 Units Compulsory)
Introduction to Criminal Procedure; Sources of Criminal Law in Nigeria – Criminal Code and Penal Code. Arrest of Suspect; Complaints by Information, First Information Report, Trial Procedure under the Criminal/Penal Code of Northern Nigeria, Statement of the Accused at the Police Station upon Arrest, Related Matters of Duress, etc. (Procedure in Southern Nigeria). The Charge: Defective Charge; Amendment of Charge; Withdrawal of Charge; Striking out of Charge. Arraignment: Charge Read and explained to each Accused Persons; Plea; Change of Plead, Bail by Court, Trial Procedure Prosecution Witnesses, Defence Witnesses, Close of Prosecution Case: Address by Counsel. Jurisdiction of Criminal Trial Courts. Adjournments and Related matters. Enforcement of Witnesses to appear in Court and testify; Contempt of Court Proceedings; Visit to Locus in quo of Crime. Principle of fair hearing in Criminal Trials; Judgment: Conviction; Sentence; Hierarchy of Criminal Trial Courts: Appeals against Conviction and/or Sentence; Appeal Procedure; Appeal with without leave of Court, Stay of Execution pending Appeal; Judgment on Appeal Affirmation of trial Court Judgment; Setting aside of trial Court Judgement; Order for retrial by the same Judge or by another Judge.

PUL 514:  Oil and Gas Law I (First Semester) (4 Units Elective)
The origin and occurrence of Oil and Natural Gas; Theories of Ownership in Oil and Gas, United Nations and Natural Resources, Interests in Oil and Gas Oil Concession, Effect of Rights of Concessionaries on Natural Gas. Exploration of Rights in Oil and Gas; Oil and Gas Pipelines, Nature, legal Status, Condition for grants, Right and Obligations of the licences.

PUL 524:  Oil and Gas Law II (Second Semester) (4 Units Elective)
Refining of Petroleum Oil; Pollution; Oil and Gas Revenue Legislation; Administration of Petroleum Profits; Nigerian National petroleum Corporation (NNPC); State Participation in the Petroleum Industry; Manpower Development;’ Organizations of Petroleum Exporting Countries (OPEC).

PPL 512:  Conveyancing I (First Semester) (4 Units Elective)
PPL 522: Conveyancing II (Second Semester) (4 Units Elective)
The Course concerns the Law relating to the Transfer of a legal estate or interest in land, leases, Mortgages, Assignments. It is also with the transfer of title of land. The relevance of the study is examined in the light of the Nigerian Property Law.

PUL 515: Healthcare Law I (First Semester) (4 Units Elective)
Health is a vital aspect of the human existence fully protected by the Country’s Constitution. Yet its critical essence needs to be well articulated within the discipline of law as a course of study because of the important and controversial health care issues involved with implication for the individual, family and society.

Introduction
(a) Definitions
(b) Evolution of Health Law
(c) Sources of Health Law ... Statutes, Regulations, Policies, etc.
(d) Right of Health ... Under Municipal Law, Regional and International Treaties/Instruments.
(e) Overview of pertinent issue relating to the Nigeria Health care delivery system.
(f) Legal Framework of Health care decision making, including Professional Self-regulations, Government Regulations, Moral Judgment and the market discipline.

PUL 525: Healthcare Law II (Second Semester) (4 Units Elective)
Health is a vital aspect of the human existence fully protected by the Country’s Constitution. Yet its critical essence needs to be well articulated within the discipline of law as a course of study because of the important and controversial health care issues involved with implication for the individual, family and society.

Legal Aspects of Reforms in Health Care Issues.
(a) Informed Consent, Right of Die, Right to Treatment, Issues in Medical Malpractice, HIV/AIDS, etc.
(b) Doctor-Patient Relationship, including interface or moral ethical and legal problems in modern medicine.
(c) Health Care Institutions ... Emphasis on recent development e.g. National Health Insurance Scheme (NHIS).
(d) “Costs” of Health Care Delivery, New Payment Methods, Status/Rights ... Implications of NHIS for Medical Care.
(e) Comparative National Health Care reforms, Policies and Laws.

REGULATIONS GOVERNING THE CONDUCT OF EXAMINATION
(i.) All students who have been admitted to a course of study in the university shall be allowed to take their examination.
(ii.) All such students who are matriculated with the University, are required in addition to payment of all prescribed fees to the University, to have a minimum of 75 percent attendance in all the courses, lectures in the
various departments of the University, before they are allowed to take
their examination.

(iii.) Students must be punctual at every examination hall. Students who come
late to the examination hall, may be admitted at the discretion of the
Chief Invigilator, but no student hall be admitted into the examination
hall 30 minutes after the commencement of the examination.

(iv.) No Student would be allowed to leave the examination hall for first one
hour after the commencement of the examination with the intention of
leaving the examination altogether.

(v.) No Student would be allowed to leave the examination hall with the
intention of returning except to go to the toilet, and an attendant of the
University must accompany the student.

(vi.) Students are advised to maintain utmost silence in the examination hall
throughout the examination.

(vii.) Students must bring with them to the examination hall their own ink,
pens, pencil and any other instruments, which are specifically permitted
to be brought into the examination hall for a particular examination paper.

(viii.) Students are not allowed to bring with them any paper, book or bag into
the examination hall.

(ix.) No student is allowed to communicate with any student, when the
examination is in progress in the examination hall. The students, willing
to seek clarifications to a question by the invigilator are advised to raise
their hands to draw the attention of the invigilator.

(x.) The use of scrap papers is not permitted in the examination hall. Students
are advised to do rough examination work in the answer booklet itself
and it can be crossed through later on.

(xi.) Students are advised to write neatly and legibly.

SCHOLARSHIPS AND PRIZES
The College of Law and Board shall recommend for Senate recognition and Honour, the
best final year student for the year, provided that the student achieves a performance not
below the level of Second Class Honours (Upper Division) in the degree examination
and provided that such a student had not spend more than the minimum period
prescribed for the degree programme.

STUDENT’S SOCIETIES
The Law Students Association (LAWSA), is an organization comprising all students in
the College of Law. The Association was founded in the 2000/2001 Session by the First
Batch of intake into the College and Membership has been made mandatory by the
Student Body of LAWSA for all Law Students. LAWSA shall not operate independently
from the College of Law.
CODE OF CONDUCT FOR LAW STUDENT AS RECOMMENDED BY THE COUNCIL FOR LEGAL EDUCATION

The Legal Profession is an Honourable Profession and all who belong or aspire to it must exhibit that trait and strength of character; good character is most crucial for admission to the Law School and subsequently to the Bar.

The Council of Legal Education, conscious of its responsibility for the Legal Profession and in conjunction with the body of Benchers, for regulating the practice of the profession in Nigeria, i.e. to train for the profession disciplined men of honour and gentlemen, hereby publishes this Code of Conduct for the information and compliance of Law Students who intends to seek admission into Nigeria Law School, qualify for the Bar and subsequently enrol as Legal Practitioners in Nigeria.

(a) A Law Student must be honest and of good behaviour. He must be a responsible and reliable person.

(b) (i) He should be well dressed at all times. The regulation dress for male students is dark suits, white shirts, black shores with white breast pocket handkerchiefs. Stripped black trousers may be worn under the dark jackets.

(ii) For female students, white blouse, dark jacket and black skirt covering the knees (dark suit) or dark ladies dress and black shoes are to be worn. There should be no embroidery and trimmings of any type and only moderate (earrings and watches) are allowed to be worn.

(iii) During hot weather, student may be permitted to wear white with ties and dark trousers and black shoes to class. The wearing of complete native attire may be allowed only at lectures and social functions.

(iv) At Law Dinners, Students must be punctual, be in regulation dress and observe all table manners.

(v) At call ceremonies, qualified student must wear regulation dress and also the Wig. Winged Collar and Bibs or Collarets and Barrister Gown. These must be clean and neat. It is compulsory.

(c) Under no circumstance should any student engage in fighting, the use of offensive language, assault or other related misconduct is prohibited.

(d) A student must not have been convicted of Criminal offences, bordering on dishonesty or fraud. Free pardon under the prerogative of mercy for convicts because the fact of commission of the crime remains. A pardon only wipes out the punishment.

(e) A prospective student must not be involved in Secret Cult activities in the University or anywhere. No student found guilty by the University Authorities and rusticated for belonging to a banned organization will qualify for admission to the Law School.

(f) A Law Student should not have been found guilty of examination malpractice in the University or of any offences involving moral ineptitude. If the offense is
committed in the Nigeria Law School, such a student will be disqualified for life. Students should shun cheating of any kind at all times, particularly during examination either in the University or in the Law School.

(g) A Law Student should not be involved in any shady business before or at the Law School (or in the so-called 419) or do anything that will portray him as a doubtful character.

(h) The one-year practical training at the Law School is a full-time course. No student should therefore engage in any gainful employment or Youth Service during the course.

(i) All Law Students are expected to observed decorum in manner sand decent living at all time and must learn now to behave a assemblies of people. They must learn the act of addressing others and learn a decent table manner. Their spoken English Language should be in Queen’s English as the use of English Language is a great weapon in the Lawyer’s armory.

(j) An aspirant to the Nigerian Bar must be disciplined in keeping time and appointments. The Courts sit at 9.00am and Barristers must be in Courts latest by 8.45am. Students should imbibe this culture or habit while in school. If lectures stat by 9.00am. Students should be seated for lectures by 8.45am.

(k) A prospective student must not found to be dishonest in his interpersonal relations with people or known with acts which may be suggestive of his inability to enjoy the confidence of his clients after being called to the Nigeria Bar.

(l) Aspirants to the Nigerian Bar are expected to be Analytical and Logical in their thinking and arguments.
DEPARTMENT OF BIOLOGICAL SCIENCES

STAFF LIST

A  ACADEMIC STAFF

<table>
<thead>
<tr>
<th>NAME OF STAFF</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ikediugwu, F.E.O.</td>
<td>B.Sc., PhD</td>
<td>Professor (HOD)</td>
</tr>
<tr>
<td>Okorie, T. G.</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Professor (DVC)</td>
</tr>
<tr>
<td>Ehiagbonare, J. E.</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Professor (Dean)</td>
</tr>
<tr>
<td>Okafor-Elenwo, E. J.</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Otajevwo, F.</td>
<td>B.Sc., M.Sc., PhD</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Okwu, M. U.</td>
<td>B.Sc., M.Sc.</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Akinyeye, A. J.</td>
<td>B.Sc., M.Sc.</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Solanke, E. O.</td>
<td>B.Sc., M.Sc.</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Aborisade, W. T.</td>
<td>B.Sc., M.Sc.</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Osamwonyi, U. O.</td>
<td>B.Sc., M.Sc.</td>
<td>Assistant Lecturer</td>
</tr>
</tbody>
</table>

B. NON-ACADEMIC STAFF

<table>
<thead>
<tr>
<th>NAME OF STAFF</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imade, S.</td>
<td>HND, PGD (Microbiology)</td>
<td>Principal Lab. Technologist</td>
</tr>
<tr>
<td>Orjiekwe, I. U.</td>
<td>HND, PGD (Microbiology)</td>
<td>Senior Technologist</td>
</tr>
<tr>
<td>Aluyi, A.</td>
<td>OND, ADVANCE DIPLOMA</td>
<td>Assistant Technologist</td>
</tr>
<tr>
<td>Oladeinde, B.</td>
<td>AIMLT</td>
<td>Assistance</td>
</tr>
<tr>
<td>Olley, F.</td>
<td>SSC</td>
<td>Assistance</td>
</tr>
<tr>
<td>Idemudia, M.</td>
<td>SSC</td>
<td>Assistance</td>
</tr>
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</table>

HISTORY OF MICROBIOLOGY PROGRAMME

The Department of Biological Sciences, Igbinedion University, Okada was established in 2000 sequel to the approval and establishment of the University in 1999. The Department has degree options in Microbiology, Plant Science and Zoology. The first intake into the Microbiology degree option was in the year 2000/2001 academic session. Since then, the student population has grown to one hundred and sixty three (163) in the 2010/2011 session.

The training of these students has been handled by highly qualified, competent and efficient staff. A total of two hundred and fifty six (256) students have graduated in the programme from eight sets of students in the 2003/2004 to 2010/2011 sessions. The staff list presently comprises twenty one (21) academic staff and four (4) non-teaching staff.

PHILOSOPHY AND OBJECTIVES OF MICROBIOLOGY PROGRAMME

Philosophy:
The philosophy is to provide a broad based education in Microbiology and produce man power (graduate) equipped with theoretical and practical knowledge, which will make them relevant in nation building and thus capable of helping the nation to achieve its goals of industrialization and self-sufficiency.

Objectives:
The objectives of the programme, therefore, are to produce confident, self-reliant and highly competitive graduates who can create employment opportunities and fill career opportunities in industries, hospitals, private businesses, academia and research. To achieve this, the course for B. Sc. honours degree in Microbiology are designed to accommodate a mosaic of students with diversity of interests and occupational goals in the field of medical, industrial, environmental soil, marine/freshwater, food and agricultural as well as microbial genetics, physiology and biochemistry. The programme integrates doctrines and concepts from genetics, biochemistry, chemistry, ecology, immunology, physiology, bacteriology, virology, statistics, botany, zoology and lastly, microbiology in order to produce well grounded students who can vie favourably anywhere and particularly in the highly competitive Nigerian food and beverages industries, hospitals and other related public and private sectors. The programme incorporates a six-month industrial work experience.

POLICY AND PRACTICE OF STAFF DEVELOPMENT
The University has staff development programme which encourages members of staff to embark on self development including acquisition of higher degrees (M. Sc., Ph.D) in the relevant areas of specialization, publish papers and research finding, belong to professional bodies and attend conferences and short courses.

Those studying for higher degrees in Igbinedion University, Okada, enjoy a rebate of 33% of the fees. Furthermore, staff who publishes an accepted journal article in scholarly journal is given some honorarium as compensation and encouragement.

ACADEMIC ATMOSPHERE
The Department encourages students to dress in a corporate manner while attending lectures.
Students are encouraged to use the library facilities during free periods.
Members of staff are encouraged to embark on research projects, publish papers, attend seminars and conferences. Students are also prepared in like manner through application of their knowledge in research project and presentation of seminar.

ADMISSION REQUIREMENTS IN THE MICROBIOLOGY PROGRAMME
The admission of candidates into the Microbiology programme is done in one of three ways:

(a) Through University Matriculation Examination (UME)
In addition to an acceptable pass in UME, candidate seeking admission into B. Sc. Degree programme in microbiology must have not less than ordinary level credit passes in at least five (5) SSCE/GCE, SSCE/NECO (or acceptable equivalents) subjects including English Language, Mathematics, Physics, Chemistry and Biology in not more than two sittings.
Candidates are, in addition, required to submit themselves for a written examination and oral interview before admission is finally offered to deserving candidates.

(b) By Direct Entry
Candidates seeking direct entry admission into the Microbiology programme must in addition to satisfy the University matriculation requirements, have a minimum of two
GCE Advanced level passes in relevant Science subjects including Biology, Chemistry and Physics.
Candidates who possess good Diploma Certificate in relevant field of study can be offered direct entry into the Microbiology Programme.

(c) Through Inter-University Transfer
Candidates wishing to transfer into the Department (Microbiology) from another University must obtain and fill the Inter–University Transfer form from the University Admission’s Officer.
Each application for transfer will be treated on its own merit. No candidate will be admitted from another University unless the College and the Department are satisfied that the candidate has met the minimum academic standard required for each level.

EXAMINATION REGULATION
a. All courses taught during each semester shall be examined at the end of that semester.
b. Only students who are duly registered for courses in a given semester and have met their financial obligations to the university shall be eligible to sit for examination in those courses.
c. Students shall report at the stipulated examination halls fifteen minutes before the start of the examination.
d. No candidate shall be allowed into the examination hall after 30 minutes of the start of the examination or leave within 30 minutes of the conclusion of the examination.
   Candidates must not bring into the examination hall any handset, computer, textbooks or notes, or involved in any other form of exam malpractices.
e. Any candidate caught cheating during examinations must be made to complete the examination malpractice form which shall be handed over to the Dean for further action.
f. Candidates shall comply with instructions given by the Chief Invigilator as to the submission of their answer sheets at the conclusion of the examination.

COURSE LISTING
Courses are listed in the hand book in the following categories:
REQUIRED COURSES OR MANDATORY COURSES (R): These are courses which the department requires the student to take and pass but may not be used in computing the final degree result.
CORE COURSES (C): Courses the students must take and pass and must be used in computing the final result.
ELECTIVE COURSES (E): These are courses chosen by the student according to his interest in addition to those he must take to complete his degree requirements. The student needs to be guided by his course adviser.

PRE-REQUISITE COURSES
(a) These are courses the knowledge of which is necessary prior to the taking of other specified (usually higher level) courses. A student is deemed to have obtained the pre-requisite knowledge if he obtains a mark not less than 30% but
will not be credited with any grade point unless he scores a minimum mark of 45%.

(b) Pre-requisite courses must be reflected where applicable. As much as possible no course shall be a pre-requisite for a course at the same level.

**QUANTIFICATION OF COURSES**

(a) Courses shall be quantified and evaluated according to credit units. A credit unit refers to lecture/tutorial contact hour per week (i.e. fifteen hours of lecture/tutorial per semester) or three hours of laboratory practical class per week (i.e. forty-five (45) hours per semester).

(b) No course shall be less than two (2) units and no lecture course shall normally be more than four (4) units

**REGISTRATION FOR COURSES**

(a) In every academic session, the first week of the first semester is usually the period for course registration. The period shall be lecture-free to ensure that the students are fully attended to.

(b) Registration time will be from 8.00am to 4.00pm daily during this period.

(c) Students in every level will be assigned lecturers to register them in the department during the exercise

(d) All the core and mandatory courses failed in the previous year/session must be registered first before proceeding with new courses.

(e) Late registration (i.e. beyond the stipulated duration) usually attracts penalty.

(f) Any student who fails to register within two (2) months from the beginning of a session shall forfeit the benefit of taking any examinations in a semester of that session. Such a student shall be deemed to have voluntarily withdrawn from the university and may be readmitted only with the approval of senate.

**CHANGE OF COURSES**

(a) Intra-University transfer of students into Department (e.g. changing from Pharmacy to Microbiology etc) must be completed within one (1) month after lectures begin at the commencement of each semester.

Students wishing to add or drop a subject in any semester may do so using “add and delete” forms. This will be done within two (2) weeks of commencement of lectures in each semester.

**WORK LOAD**

(a) A student is allowed to register for and take a minimum of thirty (30) credits and a maximum of fifty (50) credits each session (i.e. 15 credit units per semester, minimum, and 25 credit units, maximum).

(b) A graduating student who has less than thirty (30) credits may register for only the number of credits he requires to graduate.

(c) A student desiring to carry more than the maximum prescribed course load must apply to the Dean through the Head of Department.
COURSE ADVISER
A Course Adviser is a member of Academic staff who crosschecks and approves students’ registration forms. He guides, advises students and ensures that they make choices consistent with the degree regulations and requirements. The department appoints course advisers for level of the students.

ATTENDANCE TO LECTURES
Student’s attendance to lectures is controlled by an attendance list. This record is kept from the commencement of lectures at the beginning of every semester until lectures have been completed. A student must have attained up to 75% minimum contact hours before he is allowed to take the examination in the particular course. The attendance register shall be used by the course lecturer(s) for the submission of the students’ score/grade in that course.

EVALUATION OF STUDENTS IN THE UNIVERSITY COURSE WORK
The students’ course work will be evaluated using the following:
(a) Continuous assessment
(b) Laboratory practical reports
(c) Students Industrial Work Experience scheme (SIWES)
(d) Written examination.

GRADING OF EXAMINATION
(i) The final grading of a taught course will consist of continuous assessment (30%) and examination (70%). Continuous assessment comprises assignments, tests and/or practicals. The pass mark for every course is 45%. Students’ results are prepared after the examinations every semester. This reflects raw scores, grades, total unit taken, total units passed and total units failed.

(ii) At the end of a session, a summary of students results is prepared for each level showing the credits taken and the credits passed during the session, the Grade Point Average (GPA), the courses failed, the cumulative unit taken, the cumulative unit passed, the Cumulative Grade Point Average (CGPA) and remarks of proceeding, summer, probation (repeat) or withdrawal from the degree programme.

(iii) At the end of the degree programme, students results are prepared reflecting details of the session’s performance including list of courses failed for the session as well as the cumulative performance and the degree classification (where applicable).

(iv) Both the sessional GPA and CGPA are calculated using the weighted grade point. The weighted graded point of the course is the product of the point and units for the course. Thus a student who scores 80% in a three unit course has a grade point of 5 and a weighted grade point of 3 X 5 = 15 for that course.

GPA is calculated from the formula
GPA = \frac{\text{Total Weighted points for all courses in the semester}}{\text{Total Credit Units taken for the semester}}
CGPA is calculated from the formula:

\[ \text{CGPA} = \frac{\text{Total Weighted Points for the session}}{\text{Total Credits taken for the session}} \]

provided that all courses taken are relevant and used in the computation of the averages.

(v) The inclusion of the column for cumulative taken in each of the formats for presentation of result to Senate and to the College Board enables one to keep track record of weighted grade points being carried forward to the next session (being products expressed to the nearest integer of the CGPA and the cumulative units taken) where applicable.

SUMMER
Students that have a GPA of 1.50 and above but failed some courses at the end of the second semester have a remark of ‘summer’ in their result slip. This means that the student shall attend summer school and retake the entire failed courses.

PROBATION
(a) A student who makes a CGPA of 1.50 or more at the end of the session will proceed to the next level of degree programme for which he is registered.

(b) A student at 300 level or below who makes a CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable him improve on the CGPA. During that session he must register for the appropriate core courses and the other courses he has as pre-requisites.

(c) A student on probation during a session who makes a CGPA of less than 1.50 in the following academic session must withdraw from the degree program for which he is registered.

(d) If a student changes to a new degree programme and obtains a CGPA of less than 1.5 in the new programme, he will again be on probation. If however he, obtains a CGPA of less than 1.5 a second time in the new programme he will be asked to withdraw from the University.

TRANSFER
(a) Every student seeking transfer from one degree programme to another must complete the necessary form within the stipulated time.

(b) All courses taken in the previous degree programme that are relevant to the new degree programme by the offering department will be used for the computation of CGPA for the new degree programme.

(c) All regulations in respect of the new programme concerning core courses, required courses etc. must be met before graduation.
HONOURS CLASSIFICATION
(a) No student shall qualify for award of an honours degree of the university if he spends more than two sessions (fours semester) beyond the normal period allowed for the degree programme

(b) No student who has transferred more than twice will be qualified for an honours degree.

AWARD OF DEGREE
At the end of the degree programme, students’ results are prepared reflecting details of the session’s performance. This includes list of courses failed for the session as well as the cumulative performance and the degree classification according to the following scheme.

<table>
<thead>
<tr>
<th>CGPA</th>
<th>CLASS OF DEGREE</th>
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<tbody>
<tr>
<td>4.50-5.00</td>
<td>First Class Honours</td>
</tr>
<tr>
<td>3.50-4.49</td>
<td>Second Class Honours (Upper Div.)</td>
</tr>
<tr>
<td>2.40-3.49</td>
<td>Second Class Honours (Lower Div.)</td>
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<tr>
<td>1.50-2.39</td>
<td>Third Class Honours</td>
</tr>
</tbody>
</table>

CONFERMENT OF DEGREE
After the recommended examination results from the College Board had been approved by the university senate, successful candidates shall be admitted either in person or in absentia to the degree of the university at the convocation for the award of degrees. Thereafter the candidates shall be issued with certificates under the common seal of the university.

ACADEMIC PROGRAMMES OFFERED IN THE DEPARTMENT OF MICROBIOLOGY
100 LEVEL FIRST SEMESTER

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
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<tbody>
<tr>
<td>BOT 111</td>
<td>INTRODUCTION TO PLANT SCIENCES</td>
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</tr>
<tr>
<td>CHM 111</td>
<td>GENERAL CHEMISTRY (PHYSICAL)</td>
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<td>CHM 112</td>
<td>GENERAL CHEMISTRY (ORGANIC)</td>
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<tr>
<td>EPS 111</td>
<td>GROUP WORK</td>
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<tr>
<td>GST 111</td>
<td>COMMUNICATION IN ENGLISH</td>
<td>2</td>
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<td>GST 112</td>
<td>LOGIC, PHILOSOPHY AND HUMAN EXISTENCE</td>
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<td>GST 113</td>
<td>NIGERIA PEOPLE AND CULTURE</td>
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<td>PHY 111</td>
<td>GENERAL PHYSICS I (MECHANICS &amp; PROPERTIES OF MATTER)</td>
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<td>PHY 112</td>
<td>GENERAL PHYSICS II (FLUIDS DYNAMICS / ELASTICITY)</td>
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<td>PHY 113</td>
<td>GENERAL PHYSICS III (THERMAL PHYSICS)</td>
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<td>ZOO 111</td>
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<tr>
<td>BOT 121</td>
<td>FLOWERING PLANTS; STRUCTURE &amp; FUNCTION</td>
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<tr>
<td>CHM 121</td>
<td>INORGANIC CHEMISTRY</td>
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<td>CHM 122</td>
<td>GENERAL LABORATORY CHEMISTRY</td>
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<td>ORGANIC CHEMISTRY II</td>
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<tr>
<td>BOT 211</td>
<td>LOWER PLANTS</td>
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<td>BIO 211</td>
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<td>BCH 211</td>
<td>INTRODUCTORY BIOCHEMISTRY</td>
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<td>CHM 214</td>
<td>ANALYTICAL CHEMISTRY I</td>
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<td>MCB 211</td>
<td>GENERAL MICROBIOLOGY 1</td>
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<td>MTH 215</td>
<td>ANCILLARY MATHS 1</td>
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<td>INTRODUCTION TO ENTREPRENEURIAL SKILL I</td>
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<td>BOT 222</td>
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<td>ECOLOGY (POPULATION &amp; ENVIRONMENTAL)</td>
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<td>BCH 221</td>
<td>FUNCTIONAL BIOCHEMISTRY</td>
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<tr>
<td>CHM 224</td>
<td>INTRO. TO ENVIRONMENTAL CHEMISTRY</td>
<td>3 (E)</td>
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<tr>
<td>CSC 224</td>
<td>HUMAN &amp; COMPUTER INTERPHASE</td>
<td>3 (R)</td>
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<td>MCB 222</td>
<td>GENERAL MICROBIOLOGY 11</td>
<td>3 (C)</td>
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<tr>
<td>MTH 225</td>
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<tr>
<td>BCH 222</td>
<td>METABOLIC PATHWAY</td>
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### 300 Level First Semester

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<tbody>
<tr>
<td>BOT 317</td>
<td>TAXONOMY &amp; MORPHOLOGY OF FUNGI</td>
<td>3 (E)</td>
</tr>
<tr>
<td>BIO 312</td>
<td>BIOLOGICAL TECHNIQUES</td>
<td>4 (C)</td>
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<tr>
<td>BIO 310</td>
<td>BIOSTATISTICS</td>
<td>3 (R)</td>
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<td>MCB 311</td>
<td>IMMUNOLOGY (IMMUNOCHEMISTRY)</td>
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<td>MCB 312</td>
<td>BACTERIOLOGY</td>
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<td>MCB 313</td>
<td>MICROBIAL PHYSIOLOGY &amp; BIOCHEMISTRY</td>
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<td>MCB 314</td>
<td>FOOD MICROBIOLOGY</td>
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<td>MCB 315</td>
<td>VIROLOGY</td>
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<td>ESP 311</td>
<td>INTROD. TO ENTREPRENEURSHIP STUDIES 2</td>
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<td>*CHM 314</td>
<td>SEPARATION METHODS</td>
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**TOTAL CREDITS** 34

* = Optional course for Microbiology Students

### 300 Level Second Semester

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**TOTAL CREDIT** 6

### 400 Level First Semester

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<td>MOLECULAR BIOLOGY</td>
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<tr>
<td>MCB 411</td>
<td>PATHOGENIC MICROBIOLOGY I</td>
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<td>MCB 412</td>
<td>ENVIRONMENTAL MICROBIOLOGY</td>
<td>4 (C)</td>
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<tr>
<td>MCB 413</td>
<td>MICROBIAL GENETICS</td>
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<td>MCB 414</td>
<td>INDUSTRIAL MICROBIOLOGY 11</td>
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<td>MCB 416</td>
<td>SEMINAR</td>
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<td>MCB 417</td>
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<tr>
<td>ZOO 415</td>
<td>APPLIED PARASITOLOGY</td>
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**TOTAL CREDITS** 26
400 LEVEL SECOND SEMESTER

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<td>MCB 422</td>
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<td>MCB 423</td>
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<td></td>
<td>TOTAL CREDITS</td>
<td>21</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTION

100 LEVEL

BOT 111
Introduction to Plant Science; Diversity of living organisms; Life forms, mode of nutrition, size, shape, etc. Elements of Ecology and common features of living organisms; Nomenclature and classification. Plant cell, functions of organelles; Brief survey of viruses, bacteria, PPLO; General survey of plants in the five Kingdoms, highlighting their life cycles and evolutionary relationship.

ZOO 111 GENERAL INTRODUCTORY ZOOLOGY
Historical background on origin of life; Theories accounting for origin of life; Animal family tree; Human population and growth; Mans impact on the biosphere –atmospheric climate, aquatic and terrestrial ecosystems. Biodiversity, faunal biodiversity. Invertebrata; General account of the Protozoa, Coelenterata, Platyhelminthes, Nematoda, Annelida, Mollusca, Arthropoda and Echinodermata. Vertebrata; Introduction to Protochordata- Hemichordata, Urochordata and Cephalochordata; Pisces, Amphibia, Reptilia, Aves, Mammalia. Mammalian anatomy; anatomy of Rattus spp.

BOT 121 PLANT STRUCTURE AND FUNCTIONS
The flowering plant structure and function, study and similarities, and differences in plant features. Plants in action including respiration, photosynthesis, water relations, translocation and mineral nutrition. Plant reproduction, seed production and germination.

ZOO 121 FUNCTIONAL ZOOLOGY
Embryology; Gametogenesis, fertilization and cleavage as demonstrated by amphioxus, Genetics; The cell and distribution of genetic material, mitosis, meiosis, inheritance, sex determination and sex linked inheritance. Histology; cells, tissues, organ formation and main features. Physiology; Functions of Mammalian skin, muscle/skeletons alimentary system / nutritional requirements and deficiencies.

200 LEVEL

BOT 211 LOWER PLANTS
A systematic, evolutionary and phylogenetics treatment of fungi, algae, bryophytes and pteridophytes, with reference to their ecology and importance to man.

**BIO 211 INTRODUCTORY GENETICS**
Chromosome number and their interpretation. Chromosome mechanism in mitosis and meiosis. Genetic and non genetic variation; Mendelian inheritance; Linkage and crossing over. Mechanisms of sex determination. Sex linked inheritance

**ZOO 211 INVERTEBRATE ZOOLOGY**
Identification, phylogeny, biology and economic importance of Protozoa, Porifera, Platyhelminthes Aschelminthes, Annelida, Mollusca, Arthropoda and Echinodermata.

**MCB 211 GENERAL MICROBIOLOGY I**
1st SEMESTER PRE REQUISITE BOT 111 / BOT 121 / ZOO 111 / ZOO 121

**BOT 222 HIGHER PLANTS**
A survey of the evolution, morphology, ecology and importance to man of the Gymnosperms and Angiosperms. A study of the major types of development of embryo in Angiosperms and Gymnosperms.

**BIO 222 ECOLOGY (POPULATION AND ENVIRONMENTAL)**

**MCB 222 GENERAL MICROBIOLOGY II**
PREREQUISITE BOT 111 /BOT 121 /ZOO 111/ ZOO121

**ZOO 222 COMPARATIVE ANIMAL PHYSIOLOGY**
Principles of physiological adaptations; Homeostasis, Nervous, Neuromuscular and
Endocrine systems, Nutrition and Digestion; Blood and Circulation; Reproduction;
Excretion, Respiration and Osmoregulation.

300 LEVEL
BOT 317 TAXONOMY AND MORPHOLOGY OF FUNGI
PRE-REQUISITE BOT 111 / BOT 121
Structure, taxonomy, reproduction and ecological characteristics of fungi, classes of
fungi; basic principles of fungal physiology, germination and dormancy, growth and
spore structure, spore reproduction and dissemination; importance of fungi, fungal
pathogens of animals and man, fungal interactions with other micro-organisms e.g.
algae, higher plants, edible mushrooms, yeast, fungi in industries. Fungal nutrition
carbon, nitrogen, minerals and vitamins requirements

BIO 312 BIOLOGICAL TECHNIQUES
Basic research techniques in Biological Sciences including, manometry,
spectrophotometry, chromatography, isotope methods, advanced microscopy, staining
and preparation of permanent slides including the use of microtome. Sterilization and
culture techniques. Presentation and interpretation of biological data. Scientific writing.

MCB 313 MICROBIAL PHYSIOLOGY & METABOLISM
A review of cell structure and functions. Growth and death of microorganisms. Anatomy
of bacterial cell. Nutrition in yeast mould and bacteria in relation to energy metabolism
and biosynthetic activity. General aspects of energy yielding processes. Biological
oxidation and the electron transfer system. Enzymes action and control in micro
organism. Microbial interactions in natural and controlled systems. Introduction to
chemotherapy. Introduction to microbial variations and heredity; mutation, transduction,
transformation and conjugation.

BIO 310 BIOSTATISTICS
Population and samples, probability distribution, normal poisson and binomial
distribution, mean, standard deviation, standard error, curve fitting, chi-test, students
test, F – distribution, regression, correlation. Analysis of variance (One way and two
ways).

MCB 311 IMMUNOLOGY AND IMMUNOCHEMISTRY
PRE-REQUISITE MCB 221 / MCB 222
The immune response. Cells and tissues of the immune system. Antigen-antibody
reactions, antibody structure and synthesis, cellular and acquired immunity.
Immunoglobulins. Immunological tolerance and immune suppression. Hypersensitivity:
MCB 312  BACTERIOLOGY
PRE-REQUISITE MCB 211 / MCB 222

MCB 317  INDUSTRIAL MICROBIOLOGY
PRE-REQUISITE MCB 211 / MCB 222

MCB 399  INDUSTRIAL ATTACHMENT
This course is aimed at exposing the students to the practical aspects of the course. It involves visits and attachments to research institutes and establishments throughout the country to understudy scientists working in the relevant areas of food environment, soil and medical microbiology. The minimum period of industrial attachment is six months.

MCB 314  FOOD MICROBIOLOGY
PRE-REQUISITE MCB 211 / MCB 222
Sampling and enumeration of micro-organisms in foods. Ecology of food borne microorganisms. Characteristic and activities of bacteria, yeast and moulds associated with foods. Factors affecting microbial activities in foods. Microbiology of sanitation and sanitary practices as related to food and food processing. Microbiology quality assurance in food processing standards, specifications hazard analysis (HACCP) etc. food fermentation, food poisoning and food preservation.

MCB 315  VIROLOGY
PRE-REQUISITE BOT 111 / BOT 121/ MCB 221 / MCB 222
400 LEVEL
BIO 410  MOLECULAR BIOLOGY
Genetic elements of DNA. Mutation and recommendation of DNA. DNA replication and its control. RNA transcription, structure and function of RNA. Protein synthesis. The genetic code. Introduction to recombination DNA technology DNA technology, genetically related animal physiological abnormalities.

MCB 411  PATHOGENIC MICROBIOLOGY 1
PRE-REQUISITE MCB 312

MCB 412  ENVIRONMENTAL MICROBIOLOGY
Microbiology of sanitation and sanitary practices as related to contamination of air, water and food. Microbiology of water supply and sewage treatment entropucative concept and importance. Bio degradation of materials. Pollution in the oil industry and its control Aero biology; Sources, importance and control of air borne micro organism. Microbes in their natural environment. Microbial population and community dynamics. The role of micro-organism in prospecting recovery and degradation of petroleum products.

MCB 413  MICROBIAL GENETICS
PRE-REQUISITE BIO 211 / MCB 313

MCB 414  INDUSTRIAL MICROBIOLOGY 11
PRE-REQUISITE MCB 317
Microbiological and chemical aspect of fermentation with special emphasis on processes in the pharmaceutical industries. Techniques for the production of nutrients, microorganisms as reagents in quantitative analysis selection of test organisms for assays of amino acids, vitamins and screening methods employed in the search for new antibiotics. Industrial methods for the production of vaccines. Quality control of pharmaceutical products and microbiological standards and specifications. Patent and patency.

MCB 416  SEMINAR
Current topics relevant to the science of microbiology and related areas (Pure and applied) are prepared by the student and presented to the class. This course is aimed at giving the students a good knowledge on how to prepare and deliver seminar papers.
MCB 417  TOXICOLOGY

ZOO 415  APPLIED PARASITOLOGY
PRE-REQUISITE ZOO 211 / ZOO 222

MCB 421  PATHOGENIC MICROBIOLOGY II
PRE REQUISITE MCB 411
Structure, pathology and pathogenesis. Laboratory diagnosis and procedures, prophylactic / therapeutic procedures. Control and prevention of selected pathogenic bacteria, This includes gram-positive cocci (streptococci and staphylococcus) Enterobacteriaceae and other related gram-negative bacteria. Bacteria related viruses (Chlamydia, Rickettsia and Mycoplasma) Zoonotic bacteria especially those prevalent in Africa and Nigeria.

MCB 422  ANTIMICROBIAL AGENTS. AND CHEMOTHERAPY
PRE-REQUISITE MCB 211 / MCB 222
History and development of antimicrobial agents; Types and nature of microbial agents. Natural and synthetic antimicrobial agents: examples of both types will be considered in detail. Mode of action and development of drug resistance. General principles of chemotherapy. Assay of antimicrobics, susceptibility tests and other tests. Some specific diseases and their treatments will be considered.

MCB 423  PATHOGENIC FUNGI
Structure, classification and reproduction of pathogenic fungi. Laboratory methods for the study of pathogenic fungi. Detail study of the pathology, immunology for superficial, subcutaneous and systemic mycoses and actinomycetes will be made. Particular attention would be focused on those prevalent in Nigeria and Africa. Toxic metabolites of fungi and toxic mushrooms will also be considered.

MCB 424  SOIL MICROBIOLOGY
PRE-REQUISITE MCB 221 / MCB 222
Soil microflora, sampling enumeration and identification of soil micro organism with special emphasis on methods of study including nitrogen fixation, Carbon cycle etc. Microbial transformation of nutrients in soil. Degradation of complex materials (e.g. lignin, hemicelluloses, plastics and pesticides etc.), by soil microorganisms. Petroleum

MCB 425 PROJECT
A limited research project conducted under the supervision of the Department, aimed at inculcating in students the investigation approach to science.
1. ADMISSION REQUIREMENTS
The Department of Chemical Sciences offers programmes in Chemistry leading to the award of the degree: BSc. (Hons) Chemistry

Entry Requirements
Candidates are admitted into the B.Sc. Degree programmes of the Department in any of the following three ways: through University Matriculation Examination(UME), by Direct Entry, or through Inter-University Transfer.

(i) University Matriculation Examination (UME) Entry Mode:
In addition to an acceptable pass in UME, candidates seeking admission into B.SC degree programme in Chemistry must have at least ordinary level credit passes in five (5) SSCE/GCE/NECO subjects including English Language, Mathematics, Physics, Chemistry and any other subject at not more than two sittings.
In addition to (i) above, candidates are required to submit themselves for a written examination and oral interview before admission is finally offered to short-listed qualified candidates.
(ii) **Direct Entry mode**

(a) Candidates seeking direct admission to study Chemistry must have two Advance level passes in the relevant science subjects including Mathematics, Physics and Chemistry. In addition, such candidates must have satisfied the ‘O’ level requirement.

2. **CONTINUOUS ASSESSMENT**

(a) The grading of a theory course shall consist of continuous assessment (30%) and examination (70%) while the grading of a whole practical course shall consist of continuous assessment (50%) and examination (50%).

(b) The pass mark for every course is 45%.

(c) The grading system is as follows:

<table>
<thead>
<tr>
<th>Scores</th>
<th>Grade</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 - 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>45 – 49</td>
<td>D</td>
<td>2</td>
</tr>
<tr>
<td>0 - 44</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

(d) Students’ results are prepared at the end of every semester reflecting raw marks and grades, total units taken, total units passed and total units failed.

(e) At the end of every session a summary of students’ results is prepared at each level, reflecting the units taken during the session, the cumulative units taken, the cumulative units passed, the CGPA and remarks of proceeding, summer, probation, repeat or withdrawal from the degree programme as the case may be.

(f) At the end of the degree programme students results are prepared reflecting details of the session’s performance, including list of courses failed for the session as well as the cumulative performance including the degree classification (where applicable).

(g) Both the sessional GPA and CGPA are calculated using the weighted grade point. The weighted grade point for the course is the product of the point and units for the course. Thus a student who scores 75% in a three-unit course (say CHM 111) has a grade point of 5 and a weighted grade point of $3 \times 5 = 15$ for that course.

Thus the Sessional GPA is calculated from the formula:

$$\text{GPA} = \frac{\text{Total Weighted Points for all courses in the session}}{\text{Total Credit Units taken for that session}}$$

Similarly, the CGPA is calculated from the formula:

$$\text{CGPA} = \frac{\text{Total Weighted Points for all courses in the sessions}}{\text{Total Credit Units taken for that sessions}}$$
**Absence From Examination**

(a) Candidates must present themselves at the examinations for courses for which they have registered.

(b) Candidates who fail to do so for reasons other than certified ill-health or accident or for any other reason acceptable to the Departmental Board (subject to Dean’s approval) shall be deemed to have failed that examination (i.e would have F grade).

(c) For the avoidance of doubt, failure to take cognizance of changes in the examination timetable and such lapses on the part of the candidates shall not be accepted as reasonable excuse for absence.

(d) A candidate who falls ill during an examination shall report to the Director of the University Health Services who shall subsequently submit a report in writing to the Head of Department through the Dean of the College after treating the candidate.

(e) A candidate who is unable to take an examination on grounds of illness confirmed by the University Director of Health Services, on grounds specified above may be the University Director of health Services, on grounds specified above may be allowed to sit for the examination at the next available opportunity.

(f) When necessary on ground of ill health and certified by the Director of Health Services, an examination can be taken in the hospital or related location as approved by the Dean and invigilated.

3. **Calculation of GPA and CGPA**

(a) The grading of a theory course shall consist of continuous assessment (30%) and examination (70%) while the grading of a whole practical course shall consist of continuous assessment (50%) and examination (50%).

(b) The pass mark for every course is 40%.

(c) The grading system is as follows:

4. **CLASS OF DEGREE**

At the end of the degree programme, students results are prepared reflecting details of the session’s performance, including list of courses failed for the session as well as the cumulative performance including the degree classification according to the following scheme:

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Class of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First Class Honours</td>
</tr>
<tr>
<td>3.50 - 4.49</td>
<td>Second Class Honours (Upper Division)</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second Class Honours (Lower Division)</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>Third Class Honours</td>
</tr>
<tr>
<td>1.00 – 1.49</td>
<td>Pass</td>
</tr>
<tr>
<td>Less than 1.00</td>
<td>Fail</td>
</tr>
</tbody>
</table>
Conferment of Degree
After the recommended examination results from the College Board shall have been approved by the University Senate, successful candidate shall be admitted either in person or in absentia to the degree of the University at the convocation for the award of degrees, and thereafter issued with certificates under the common seal of the University.

LIST OF COURSES

100 LEVEL
1ST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 111</td>
<td>General Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 112</td>
<td>General Organic chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>MAT 111</td>
<td>Trigonometry &amp; Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAT 112</td>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>PHY 111</td>
<td>General Physics I (Mechanics, Thermal Physics &amp; Properties of Matter)</td>
<td>3</td>
</tr>
<tr>
<td>PHY 112</td>
<td>Vibrations, Wave &amp; Optics</td>
<td>3</td>
</tr>
<tr>
<td>GST 111</td>
<td>Use of English I</td>
<td>2</td>
</tr>
<tr>
<td>GST 112</td>
<td>Nigeria History &amp; Culture</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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ELECTIVES COURSES
1ST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 111</td>
<td>Introduction to Computer &amp; Basic Programming</td>
<td>3</td>
</tr>
<tr>
<td>BOT 111</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 111</td>
<td>General Zoology</td>
<td>3</td>
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2ND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 121</td>
<td>General Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 122</td>
<td>General Organic Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHM 123</td>
<td>General Laboratory Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MTH 121</td>
<td>Statistics/Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MTH 122</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHY 121</td>
<td>Electromagnetism &amp; Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 100</td>
<td>Practical Physics</td>
<td>4</td>
</tr>
<tr>
<td>GST 121</td>
<td>Entrepreneurial Studies</td>
<td>2</td>
</tr>
<tr>
<td>GST 122</td>
<td>Philosophy, ethics, Logic &amp; Law</td>
<td>2</td>
</tr>
<tr>
<td>GST 123</td>
<td>History of Science</td>
<td>2</td>
</tr>
<tr>
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<td><strong>Total</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>
Note: Students in 100 Level B.Sc Chemistry Programme offer the same set of courses.

### 200 LEVEL

#### 1ST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211</td>
<td>Basic Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHM 212</td>
<td>Basic Physical Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>ICH 213</td>
<td>Industrial Management I</td>
<td>2</td>
</tr>
<tr>
<td>CHM 214</td>
<td>Analytical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 215</td>
<td>Practical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>ICH 216</td>
<td>Industrial Chemical Process</td>
<td>3</td>
</tr>
<tr>
<td>PHY 215</td>
<td>Atomic &amp; Nuclear Physics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
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#### 2ND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 221</td>
<td>Basic Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ICH 222</td>
<td>Colour Chemistry &amp; Technology I</td>
<td>2</td>
</tr>
<tr>
<td>ICH 223</td>
<td>Industrial Raw Material Resources Inventory</td>
<td>3</td>
</tr>
<tr>
<td>CHM 224</td>
<td>Introduction to Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 225</td>
<td>Practical Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 226</td>
<td>Heterocyclic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MTH 223</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

### ELECTIVES COURSES

#### 1ST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 211</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MTH 212</td>
<td>Probability Distribution</td>
<td>3</td>
</tr>
<tr>
<td>MTH 221</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 212</td>
<td>Symbolic Programming in Fortran</td>
<td>3</td>
</tr>
<tr>
<td>CSC 224</td>
<td>Human/Computer Interface</td>
<td>3</td>
</tr>
<tr>
<td>PHY 212</td>
<td>Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 224</td>
<td>Electromagnetism &amp; Electronics</td>
<td>3</td>
</tr>
<tr>
<td>BCH 211</td>
<td>Introductory Biochemistry</td>
<td>3</td>
</tr>
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</table>

### 300 LEVEL

#### 1ST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 311</td>
<td>Aromatic &amp; Alicyclic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 312</td>
<td>Polymer Science</td>
<td>3</td>
</tr>
<tr>
<td>CHM 313</td>
<td>Introduction to Spectroscopy</td>
<td>2</td>
</tr>
<tr>
<td>CHM 314</td>
<td>Separation Methods</td>
<td>3</td>
</tr>
<tr>
<td>CHM 315</td>
<td>Practical Organic Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHM 316</td>
<td>Physical Chemistry</td>
<td>3</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Units</td>
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<tr>
<td>-------------</td>
<td>-------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>CHM 317</td>
<td>Soil Chemistry</td>
<td>2</td>
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**2ND SEMESTER**

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<tr>
<td></td>
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</table>

Recommended Elective For Pure Chemistry Students:

**400 LEVEL**

**1ST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 411</td>
<td>Organic Reaction Mechanisms</td>
<td>4</td>
</tr>
<tr>
<td>CHM 412</td>
<td>Natural Products</td>
<td>2</td>
</tr>
<tr>
<td>CHM 413</td>
<td>Molecular Spectroscopy</td>
<td>2</td>
</tr>
<tr>
<td>CHM 414</td>
<td>Advance Chemical Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>CHM 415</td>
<td>Preparative Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 416</td>
<td>Radiochemistry and Nuclear Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 417</td>
<td>Organometallic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 418</td>
<td>Inorganic Reaction Kinetics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>28</strong></td>
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**2ND SEMESTER**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
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<tbody>
<tr>
<td>CHM 421</td>
<td>Coordination Chemistry</td>
<td>3</td>
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<tr>
<td>ICH 422</td>
<td>Food Processing Technology</td>
<td>3</td>
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<tr>
<td>ICH 423</td>
<td>Mineral Processing Technology</td>
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<tr>
<td>CHM 424</td>
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<td>CHM 425</td>
<td>Environmental Chemistry II</td>
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<td>ICH 427</td>
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<td>ICH 428</td>
<td>Detergent and Cosmetic Chemistry</td>
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<td>CHM 429</td>
<td>Colour Chemistry and Statistical</td>
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<td>Thermodynamics</td>
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<td>ICH 433</td>
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<td>CHM 434</td>
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<td><strong>Total</strong></td>
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</table>
**COURSE OUTLINE**

**100 LEVEL**

**CHM 111:** General Physical Chemistry (3 Credits) IST Semester  

**CHM 112:** General Inorganic Chemistry I (2 Credits) 1ST Semester  

**CHM 121:** General Inorganic Chemistry (3 Credits) 2ND Semester  

**CHM 122:** General Laboratory Chemistry (2 Credits)1ST/ 2ND Semester  
Theory and Practice qualitative chemical analysis, acid-base, oxidation-reduction, precipitation and complexometric titrations, Gravimetric analysis. Calculations, data analysis and organic analysis for elements in Group II, IIIA, IIIB, IV, Chemical analysis, etc. 15h (T) 90h (p).

**CHM 123:** General Organic Chemistry I (2 Credits) 2ND Semester  

**200 LEVEL**

**CHM 211:** Basic Organic Chemistry (3 Credits)1ST Semester  
Isomerism and conformation, Enantiomorphs, Diastereoisomers, mesoforms, racemic forms. Optical activity. Inductive and resonance effect. Activation energy, free radical substitution reaction in alkanes. Aromacity. Basic organic reactions e.g addition, free radical elimination and condensation reaction etc. Fats and oils, soaps and detergents. Amino acids, proteins and carbohydrates. Test for functional groups. Use of simple techniques for purification e.g. recrystallization. Preparation of simple esters, aldehydes, ketones and amines. Hydrolysis of esters. 30h (T) 45h (P) PRE: CHM 112 OR “A” Level.

**CHM 212:** Basic Physical Chemistry (3 Credits) 1ST Semester  

ICH 213: Basic Organic Chemistry (3 Credits) 1st Semester
Organizational structure in the industry. Management functions, order and chain of command in the work place. Management theories. Industrial law, legislation in wages, trade marks and patents.

CHM 214: Analytical Chemistry I (3 Credits) 1st Semester
Theory of errors, statistically treatment of data. Chemical methods of analysis including volumetric, gravimetric and physisiochemical methods. Aqueous solutions. Introduction to separation methods of analysis. Instrumental techniques of analysis 30h (T) 45h (P) PRE: CHM 111 & CHM 122 or ‘A’ Level.

ICH 215: Practical Chemistry I (3 Credits) 1st Semester
Qualitative analysis for anions and cations. Experiments in kinetics, surface Chemistry and thermochemistry. Test for functional groups. Use of simple techniques for purification e.g. recrystallization, precipitation, steam distillation, fractional distillation. Preparation of simple esters, aldehydes, ketones and amines. Hydrolysis of esters. 90h (P).

ICH 216: Industrial Chemical Process I (3 Credits) 1st Semester

CHM 221: Basic Inorganic Chemistry (3 Credits) 2nd Semester
Simple consideration of molecular orbital and valence bond theories. Ionic lattices and molecular shapes. Chemistry of hydrogen, noble gases, boron and aluminum, carbon and silicon, nitrogen and phosphorus; oxygen and sulphur; the halogens. Introduction to organometallic chemistry. 30h (T) 45h (P) PRE: CHM 121 or ‘A’ Level.

ICH 222: Colour Chemistry & Technology I (2 Credits) 2nd Semester
Colour and constitution, chemistry and properties of dying and pigments. Classification of dyes and pigments. Some natural dyes and pigments (emphasis on those obtained locally), dyeing of natural and synthetic fibbers. Colour fastness properties of dyes. Quality control procedures; industry based on colour chemistry.

ICH 223: Industrial Raw Material Resources Inventory (3 Credits) 2nd
Semester

CHM 224: Introduction to Environmental Chemistry I (4 Credits) 2ND Semester
Components of the total environment: air, water, land: their natural forms. Causes of environmental impairment; environmental pollution: Sources and types of pollution. Effects of pollution. Water and was water characteristics ;and their measurements. Who standards. Industrial water supply. Introduction to waste water treatment. Solid waste: effects and solid waste management. 45h (T) PRE CHM 122

CHM 225: Practical Chemistry II (2 Credits) 2ND Semester
Selected experiments in physical, inorganic, analytical and organic chemistry.

CHM 226: Heterocyclic Chemistry (3 Credits) 2ND Semester
Stereochemistry and polyfunctional compounds; Stereochemistry of compounds with asymmetric carbon-biphenyls, R2; sep specification of configuration; Important methods of preparation and reaction and reactions of halogen acids, hydroxy-acids, dicarboxylic acids, keto-acids, unsaturated acids, lactones, ketones and epoxides; importance in synthesis of some organic compounds. Simple heterocumpounds containing one, two or three heteroatoms, nomenclature, synthesis, simple reactions. 45h (T)

300 LEVEL
CHM 311: Aromatic and Alicyclic Chemistry (3 Credits) 1ST Semester

ICH 312: Polymer Science (3 Credits) 1ST Semester

CHM 313: Introduction to Spectroscopy (2 Credits) 1ST Semester
The origin of sectra, wavelength, wave number, frequency and quantum ralationships. Law of absorption. Principles and instrumentation of IR, UV, NMR, MS, Raman and Mossbaur spectroscopy. Interpretation of simple spsectra. 30h (T) PRE: CHM 214.
CHM 314: Separation techniques (2 Credits) 1ST Semester
Filtration, Batchwise and counter current techniques, sublimation, chromatography – column, paper and gas, ion-exchange techniques, Electrophoresis, Dialysis etc. 30h (T).

CHM 315: Practical Organic Chemistry (2 Credits) 1ST Semester

CHM 316: Physical Chemistry (3 Credits) 1ST Semester

CHM 317: Soil Chemistry (2 Credits) 1ST Semester
Definition of soil. Classification; chemical properties of soil, Soil tests and analysis. Improvement in soil quality. 30h (T).

CHM 320: Industrial Training (Siwes Programme) (6 Credits) 2ND Semester

400 LEVEL

CHM 411: Organic Reaction Mechanisms (3 Credits) 1ST Semester
Studies of types and mechanisms involved in substitution, elimination, addition and rearrangement reactions of aliphatic and aromatic compounds and natural products. Oxidation and reduction mechanisms. Reactions of the intermolecular cyclisation types and stereochemical considerations. 30h (T) PRE: CHM 211 & CHM 311.

CHM 412: Natural Products (2 Credits) 1ST Semester
Chemistry of Natural products of pharmaceutical importance: terpenoids, steroids, alkaloids, lipids and carbohydrates, antibiotics, flavonoids, prostaglandins and chlorophylls. General and specific methods of isolation, separation, purification and structure determination by chemical and spectroscopic methods. Biosynthesis of selected examples 30h (T) PRE: CHM 311

CHM 413: Molecular Spectroscopy (3 Credits) 1ST Semester
Basic principles of spectroscopy, theory, basic instrumentation and application of microwaves, infrared and raman nuclear magnetic resonance (NMR), electron spin resonance (ESR), electronic, mssbaur spectroscopy and some latest spectroscopic techniques. 30h (T) PRE: CHM 313.
CHM 414: Advance Chemical Kinetics (3 Credits) 1ST Semester
Review of first, seconds, and third order rate equations. Rate constants and equilibrium constants. Collision theory. Transition state theory, reaction mechanisms, catalysis and heterogeneous reactions, photochemical reaction mechanisms 45h (T).

CHM 415: Preparative Organic Chemistry (2 Credits) 1ST Semester
Modern methods in the synthesis of organic compounds; selected literature examples to illustrate modern principles and approaches to synthesis, thermal, photolytic. Sigmatropic rearrangement. Fragmentations. 30h (T) PRE: CHM 311.

CHM 416: Radiochemistry and Nuclear Chemistry (2 Credits) 1ST Semester
Natural radioactivity, fusion, fission, decay processes, nature of radiation, nuclear models, energetic of nuclear reaction. Principles and measurement of radioactivity. Applications of radioactivity. Radiation harzads. 30h (T).

CHM 417: Organometallic Chemistry (3 Credits) 1ST Semester
Introduction to organometallic compounds of transition elements, classification of ligands, electron rule, bonding, preparation of organic transition metal compounds. Reaction and structures of organometallic compounds of transition elements. The organic chemistry of ferrocene and related compounds. The role of organometallic compounds on some catalytic reactions 45h (T).

CHM 418: Inorganic Reaction Kinetics and Mechanisms (2 Credits) 1ST Semester
Redox reactions, mechanisms of electron transfer reactions: outer – and inner-transfer reaction mechanisms. Substitution reactions; General mechanism of square planar complexes of Pt (II) and other d metal ions. Substitution reactions in octahedral complexes 30h (T) PRE: CHM 321.

ICH 419: Industrial Management (2 Credits) 1ST Semester
Industrial law, legislation in wages, trade marks and patents. An introduction to concepts and procedures of decision making in the management of business operations. 30h (T).

CHM 421: Coordination Chemistry (3 Credits) 2ND Semester

ICH 422: Food Processing Technology (3 Credits) 2ND Semester
Analysis of food samples for trace elements, vitamins, protein contents etc. Methods of food preservation. Studies of food poisoning and problems of nutrient deficiencies. 45h (T).

ICH 423: Mineral Processing (3 Credits) 2ND Semester
Mineral Ores. Occurrence, methods of concentration and beneficiation. Calcination, froth floatation, leaching, methods of refining, smelting, direct reduction, pyrometallurgy and hydrometallurgy. Differential thermal analysis. Methods of reforming and applications of the ores of iron, aluminum, tin, lead, zinc and uranium. 45h (T)

CHM 424: Analytical Chemistry II (2 Credits) 2\textsuperscript{ND} Semester

CHM 425: Environmental Chemistry II (2 Credits) 2\textsuperscript{ND} Semester

CHM 426: Diffraction Methods (2 Credits) 2\textsuperscript{ND} Semester

ICH 427: Detergent and Cosmetic Chemistry (2 Credits) 2\textsuperscript{ND} Semester
Survey of classes of detergents, surfactants. Preparation, properties and industrial applications. Definition and classification of cosmetics. Preparation, properties and application of frequently used cosmetic products e.g face powder, cream, lotion, hair care products, lipstick, legal cosmetics. 30h (T).

ICH 428: Colour Chemistry and Technology II (2 Credits) 2\textsuperscript{ND} Semester
The chemistry and theory of dyeing. Chemistry and application of reactive dyes. Preparation and dyeing of man-made fibres. Dyeing machinery, printing, colouring matter for food, drugs and cosmetics. Dyes used in paper industry and color photography. 30h (T).

CHM 429: Quantum Chemistry and Statistical Thermodynamics (3 Credits) 1\textsuperscript{ST} Semester
canonical ensembles. Some applications of statistical thermodynamics. Maxwell-Boltzmann of velocities, heat capacities, equipartition of energy, equilibrium state. 45h (T).

ICH 431: Industrial; Methodology and Quality Control (3 Credits) 1ST Semester

ICH 432: Polymer Technology (2 Credits) 1ST Semester

ICH 433: Petroleum Chemistry (2 Credits) 2ND Semester
Composition, classification and properties of petroleum gases. Processing of petroleum and petroleum gases. Preparation and chemical transformation of primary petrochemicals.

ICH 434: Seminar (2 Credits) 1ST/2ND Semester
Literature search, presentation of seminar on comprehensive literature reviews of selected topics of research interest. 90h (T)

CHM 499: Research Project (5 Credits) 1ST/2ND Semester
Experimental investigation into a chemical problem carried out independently by the students under the guidance of an academic member of staff 225h (P).
DEPARTMENTAL STAFF LIST

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME OF STAFF</th>
<th>QUALIFICATION</th>
<th>STATUS</th>
<th>DISCIPLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mrs. R.I. Izevbizua</td>
<td>M.Sc.</td>
<td>Asst Lect./HOD</td>
<td>Comp Sc</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Longe Anyanwu</td>
<td>PhD</td>
<td>Prof</td>
<td>Comp Sc</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. D. Allenotor</td>
<td>PhD</td>
<td>Snr Lect.</td>
<td>Comp Sc</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. H. Omorogbe</td>
<td>M.Sc.</td>
<td>Lect. II</td>
<td>Comp Sc</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. O. Uriri</td>
<td>M.Sc.</td>
<td>Asst Lect</td>
<td>Comp Sc</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. O. Omorogiuwa</td>
<td>M.Sc.</td>
<td>Asst. Lect.</td>
<td>Comp Sc</td>
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<tr>
<td>7.</td>
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<tr>
<td>8.</td>
<td>Mr. K. Ohaigu</td>
<td>M.Sc.</td>
<td>Asst. Lect</td>
<td>Comp Sc</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. V. Amenaghawon</td>
<td>M.Sc.</td>
<td>Asst. Lect.</td>
<td>Comp Sc</td>
</tr>
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NON-ACADEMIC STAFF

<table>
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<tr>
<td>11.</td>
<td>M.r N.O. Amasowomwan</td>
<td>B.Eng.</td>
<td>Technologist II</td>
</tr>
<tr>
<td>12.</td>
<td>Mr. P.O. Yesufu</td>
<td>Advanced Level Accounting,</td>
<td>Computer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Professional Cert in Computer</td>
<td>Demonstrator</td>
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<td>.Sc</td>
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</table>

Preamble
The department of computer science and information technology/mathematics offers four major subject areas namely:
- Computing and intelligent systems
- Computational analysis, design and applications
- Data communication and information systems
- Operations research and network systems
These lead to the award of Bachelors degree in computer science and information technology.

Philosophy and objectives of the department of computer science

Philosophy
The philosophy of the Bachelor of computer science Degree in computer science which includes, contribution to knowledge and material development through moral, academic, physical and entrepreneurial training of first-rate future leaders in technological and social-economic development in Nigeria and Edo State in particular. Accordingly, emphasis is placed on:

(i) Training of the student to have interest in and capacity for the application of scientific principles.
(ii) The application of scientific principles and methods towards solving societal problems.
(iii) The development in the students of the capacity for innovation and improvisation of materials from local resources.
Objectives
The objective of the department is to provide suitable and qualitative computer education in the challenging world of scientific evolution.
The department focus on constant evolvements in computer science particularly in the field of information Technology, to structure course, thereby, covering a broad area and providing opportunity towards specialization in specific areas.

Entry requirements
Candidates are admitted into the B.Sc. Degree programmes of the department in any of the following three ways:- through University Matriculation examination (UME), by Direct Entry, or through Inter-University Transfer.

(i) University Matriculation Examination (UME) Entry Mode:
In addition to an acceptance pass in UME, candidates seeking admission into B.Sc. degree programme in computing must have at least ordinary level credit passes in five (5) SSCE/GCENECO subjects including English Language, Mathematics, Physics, and any other subjects at not more than two sittings.
In addition to (i) above, candidates are required to submit themselves for a written examination and oral interview before admission is finally offered to short-listed qualified candidates.

(ii) Direct Entry Mode
(a) Candidates seeking direct admission to study computer science must have two advance level passes in the relevant science subject including Mathematics, Physics. In addition, such candidates must have satisfied the ‘O’ Level requirement.
(b) Candidates who posses good Diploma Certificates in Computer science can be offered direct entry into the Department to read B.Sc. (Hons) Degree.

(iii) Inter-University Transfer
Candidates wishing to transfer into the Department from another University must have.
(a) Obtain and fill the inter-University Transfer form from the University admission’s Officer.
(b) Satisfied the Department Minimum academic standard required for such level.

Course Duration
Computer science Degree programme shall run for four (4) academic sessions for UMER admission, and three (3) academic sessions for direct entry candidates.

Evaluation of students in the University course work
The students’ course work will be evaluated for grading using any one of the following criteria:
(i) Written examination
(ii) Continuous assessment test
(iii) Laboratory practical reports
(iv) Students industrial work experience scheme (SIWES)

Registration
Student must register for all the approved course specified for each level in the college handbook at the beginning of each academic session. No student can register for more than 25 credit units for a semester or 50 credit units for the whole academic session.

Regulations governing first degree programmes

(1) Degree Options
Programmes of study shall be provided leading to bachelor’s degree in science to be denoted by: B.Sc Computer & IT

(2) Teaching Method
Instruction shall be by course and students will be required to take an appropriate combination of course and undergo appropriate work experiences as Senate may determine from time to time on the recommendation of the department and the college.

(3) Categorization of courses
(a) Core course (C)
These are courses that must be mounted by the University, taken by the student and passes in respect of the particular degree programme
(b) Required courses (R)
These are courses, which are mounted by the University, taken by the student, on advice of the department in respect of the particular degree programme by which the student may or may not pass.

(4) Pre-Requisite Course
(a) Pre-Requisite courses are the knowledge of which is necessary prior to the taking of other specified (usually higher level) courses. A student is deemed to have obtained this pre-requisite knowledge if he/she obtains a mark not less than 355 but will not be credited with any grade points in the course concerned, except he/she scores a minimum mark of 45%.
(b) Pre-requisite courses must be reflected where applicable. As much as possible no course shall be a pre-requisite for a course at the same level. Course number shall be prefixed by three character programme/subject/department code.

(5) Quantification of courses.
Courses shall be quantified and evaluated in terms of credit units. A credit unit is defined as one lecturer/tutorial contact hour per week (i.e 15 hours of lecture/tutorial per semester) or three hours of laboratory practical class per week (i.e 45 hours of laboratory practical class/field work per semester).
(a) No course shall be less than 2 units and no lecture course shall normally be more than 3 units.

(6) **Students registration**
(a) The first week of the first semester of each academic session shall be the period for course registration. The period shall be lecture-free to enable all registration officials attend to all students fully.
(b) Registration time will be from 8.00am 4.00pm daily during this period.
(c) Every level in each department will be assigned one or more lecturers to act as registration officer for students in that level throughout the duration of the exercise.
(d) Students wishing to add or drop a course in any semester may do so using ‘add and delete’ forms provided it is done within the first two weeks of the commencement of lectures during the semester.

(7) **Minimum and Maximum load**
(a) A student must register for a minimum of 15 course unit per semester and a maximum of 25 course units per semester.
(b) A student desiring to carry more than the maximum prescribed load or less than minimum prescribed load or less than the minimum prescribed load of course units must normally apply to the Dean through the Head of department.
(c) In exceptional cases, the Dean may on behalf of the college Board permit a student to carry more than the maximum prescribed load or less than the minimum prescribed load of course units.

(8) **Course Adviser**
A course adviser is a member of academic staff who approves students’ registration forms. He advises students individually and ensures that their choices are consistent with the degree regulations and requirements. The department appoints one or more course advisers for each level of her students.

(9) **Class Admit/Grade Card**
A class admit/grade care shall be issued to every registered student in the department. The card shall enable the course lecturers to exercise control over student attendance at such lectures. Lecturers shall be required to certify that a student has attained over 755 minimum contact hours before he/she is allowed to take the examination in the particular course. The class admit/grade care shall be used by course lecturer for the submission of student’s score/grade in the particular course.

(10) **Examination Regulations**
(a) All course taught during each semester shall be examined at the end of that semester. Similarly all sessional course shall be examined at the end of that session.
(b) Only students who are duly registered for courses in a given semester and have met their financial obligation to the university shall be eligible to sit for examination in those course.
(c) Students who enter for examination in courses for which they are not duly registered shall not be credited with any grades or units for the courses.

(d) Students shall report at the stipulated examination halls fifteen minutes before the start of the examination.

(e) No candidate shall be allowed into the examination hall after 30 minutes of the start of the examination.

(f) The chief invigilator may, under special circumstance accept a candidate into the examination hall after 30 minutes of the start of the examination if he/she is satisfied that there are reasonable grounds for the lateness. A report of this situation must be formally made to the Chief Examiner.

(g) No candidate shall be allowed to leave the examination hall within 30 minutes of the conclusion of the examination.

(h) No candidate shall be allowed to withdraw from the examination hall within 30 minutes of the commencement of examination.

(i) Candidates shall not be allowed to bring into examination hall any personal bag, electronic organizer, textbooks, scrap notes or such other personal effects except such materials as may permitted for use in the same examination.

(j) All rough notes, scrap sheets, draft answer sheets must be submitted after appropriate cancellation, to the Chief invigilator with the definitive answer sheet at the conclusion of the examination.

(k) Candidates shall not talk to one another; give or receive from another any form of assistance, pens, eraser, pencils, rulers, etc.

(l) It shall be the responsibility of each candidate to ensure that his/her examination sheets are duly accounted for to the chief invigilator at the examination hall.

(m) All questions pertaining to the examination must be directed to the chief invigilator or any of the accredited invigilators.

(n) Candidates may go to the toilets, etc during examination provided that a suitable officer accompanies them throughout the period of absence, such absence must not be reasonable prolonged and the candidate shall not be allowed any extra time by reason of such absence.

(o) Candidates shall not walk out of the examination hall with any answer sheet/booklet used or unused.

(p) Candidates shall comply with any instruction given by the chief invigilator as to the submission of their answer sheets at the conclusion of the examinations.

(q) Invigilators shall ensure that personal effects such as bags, electronic organizers, textbook, scrap notes, etc are not brought into the examination hall by the candidates and that unused answer scripts are not taken out.

(r) Silence shall be maintained throughout the duration of an examination.

(s) Invigilators shall tell the candidates the exact time regulations of starting an examination and thereafter inform them of the time at reasonable intervals.

(t) Invigilators shall ensure that all candidates sign the attendance register.

(u) Any contravention of any of the above rules and regulations shall constitute examination misconduct. All candidates shall comply with these regulations in their own interest.

(v) The chief invigilator shall report any examination misconduct formally to the chief examiner/Dean of the appropriate college as specified by senate.
At the end of an examination, each invigilator shall collect and count the scripts before handing them over to the chief invigilators who shall sign the answer booklet.

(11) Absence From Examination
(a) Candidates must present themselves at the examination for courses for which they have registered.
(b) Candidates who fail to do so for reasons other than certified ill-health or accident or for any other reason acceptable the department Board (subject to Dean’s approval) shall be deemed to have failed that examination (i.e would have F grade).
(c) For the avoidance of doubt, failure to take cognizance of changes in the examination timetable and such lapses on the part of the candidates shall not be accepted reasonable excuse for absence.
(d) A candidates who fails ill during an examination shall report to the Director of the University Health Services who shall subsequently submit a report in writing to the Head of Department through the Dean of the college after treating the candidate.
(e) A candidate who is unable to take an examination on grounds of illness confirmed by the University Directors of Health Services, on ground specified above may be allowed to sit for the examination at the next available opportunity.
(f) When necessary, on grounds of ill health and certified by the director of health services, an examination can be taken in the hospital or related location as approved by the dean and invigilator.

(12) Grading of Examination
(a) The grading of a theory course shall consist of continuous assessment (30%) and examination (70%).
(b) The pass mark for every course is 45%.
(c) The grading system is as follows:

<table>
<thead>
<tr>
<th>Scores</th>
<th>Grade</th>
<th>Grade point</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>45 - 49</td>
<td>D</td>
<td>2</td>
</tr>
<tr>
<td>0 - 44</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

(d) Students’ results are prepared at the end of every semester, reflecting raw marks and grades, total units taken, total units passed and total units failed.
(e) At the end of every session a summary of students’ results is prepared at each level, reflecting the units taken during the session, the units passed during the session, the sessional G.P.A., the courses failed for the session, the cumulative units taken, the cumulative units passed, the CGPA and remarks of proceeding, summer, probation, repeat or withdrawal form the degree programme as the case may be.
At the end of the degree programme, students results are prepared reflecting details of the session’s performance, including list of courses failed for the session as well as the cumulative performance including the degree classification (where applicable).

Both the sessional; GPA and CGPA are calculated using the weighted grade point. The weighted grade point for the course is the product of the point and units for the course. Thus a student who scores 75% in a three unit course (say CSC 111) has a grade point of 5 and a weighted grade point of $3 \times 5 = 15$ for that course.

Thus the sessional G.P.A. is calculated from the formula:

$G.P.A = \frac{\text{Total Weighted Points for all courses in the session}}{\text{Total Credit Units taken for that session}}$

Similarly, the CGPA is calculated from the formula:

$CGPA = \frac{\text{Total Weighted Points for all courses in the session}}{\text{Total Credit Units taken for that session}}$

Provided that all courses taken that are relevant to a particular degree programme are used in the computation of the various averages.

In computing CGPA, performance in all courses registered for and taken in the course of a particular degree programme must be used.

The inclusion of the column (For cumulative take) in each of the formats for presentation of results senate and to the college Board enables one to keep track record of the weighted grade points being carried for ward to the next session (being product expressed to the nearest integer, of the CGPA and the cumulative units taken) where applicable.

As an example, consider a student who has taken eighteen courses in the two semester with the following details

### 100 Levels First Semester Examination

<table>
<thead>
<tr>
<th>Course</th>
<th>Unit (a)</th>
<th>Mark (%)</th>
<th>Grade Letter</th>
<th>Grade point (b)</th>
<th>Weighted grade point (a) x (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 111</td>
<td>3</td>
<td>45</td>
<td>D</td>
<td>2</td>
<td>6</td>
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<td>C</td>
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<td>47</td>
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<tr>
<td>GST 111</td>
<td>2</td>
<td>46</td>
<td>D</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>GST 112</td>
<td>2</td>
<td>50</td>
<td>C</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>GST 113</td>
<td>2</td>
<td>51</td>
<td>C</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td>49</td>
</tr>
</tbody>
</table>

### 100 Levels Second Semester Examination

<table>
<thead>
<tr>
<th>Course</th>
<th>Unit (a)</th>
<th>Mark (%)</th>
<th>Grade Letter</th>
<th>Grade point (b)</th>
<th>Weighted grade point (a) x (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 121</td>
<td>3</td>
<td>55</td>
<td>C</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>CSC 122</td>
<td>3</td>
<td>64</td>
<td>B</td>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>

459
### 100 Levels First Semester Summer Examination

<table>
<thead>
<tr>
<th>Course</th>
<th>Unit (a)</th>
<th>Mark (%)</th>
<th>Grade Letter</th>
<th>Grade point (b)</th>
<th>Weighted grade point (a) x (b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 112</td>
<td>3</td>
<td>65</td>
<td>B</td>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>

Sessional GPA (Before Summer) = \( \frac{49 + 64}{44} = \frac{113}{44} = 2.57 \)

Sessional GPA (Afore Summer) = \( \frac{49 + 64 + 12}{44} = \frac{125}{44} = 2.84 \)

Suppose that a student pulled the following results after summer for a four year programme:

<table>
<thead>
<tr>
<th>Year</th>
<th>Weighted Grade point</th>
<th>Total Credit Units</th>
<th>Cumulative units</th>
<th>Cumulative weighted Grade Pt.</th>
<th>CGPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year I</td>
<td>94</td>
<td>38</td>
<td>38</td>
<td>92</td>
<td>2.421</td>
</tr>
<tr>
<td>Year II</td>
<td>114</td>
<td>40</td>
<td>78</td>
<td>206</td>
<td>2.641</td>
</tr>
<tr>
<td>Year III</td>
<td>122</td>
<td>44</td>
<td>122</td>
<td>328</td>
<td>2.689</td>
</tr>
<tr>
<td>Year IV</td>
<td>117</td>
<td>42</td>
<td>164</td>
<td>445</td>
<td>2.713</td>
</tr>
</tbody>
</table>

Thus, the CGPA at the point of graduation is 2.71, hence the student will come up with second class lower division degree classification.

Note:
- A student cannot **re-register for a course already passed**
- A student must have passed all core courses and accumulated at least 30 credit units per level before graduation (i.e. minimum of 120 units for UME and 90 units for direct entry before graduation)
- In the computation of the CGPA all courses taken in the session will be used and therefore no course will be disregarded or discountenanced.

(13) **Summer**

Students that have a GPA of 1.50 and above but failed some course at the end of second semester have a remark of summer in their result slip. This means that the student is to
attend the summer school and retake the entire failed course in which he/she scored at least 35% mark.

(14) **Probation**

(a) A student who makes a CGPA of 1.50 or more at the end of the session will proceed to the next level of degree programme for which he/she is registered.

(b) A student at 100 to 300 level who makes a CGPA of less than 1.50 at the end of the session will be on probation for the following session to enable him/her improve on the CGPA. During that session he must register for the appropriate core courses and other courses he/she has the pre-requisites.

(c) A student on probation during a session who makes a CGPA of less than 1.50 at the end of the following academic session must withdraw from degree programme for which he/she is registered.

(d) If a student changes to a new degree programme and obtain a CGPA of less than 1.50 in the new degree programme he/she will again be on probation. If however, he/she obtains a CGPA of less than 1.50 a second time in the new programme he/she will be asked to withdraw from the university.

(15) **Transfer**

(a) Every student seeking transfer from one degree programme to another must complete the necessary forms within the stipulated time.

(b) All courses taken in the new previous degree Programme that are deemed relevant to the new degree programme by the offering department will be used for the computation of CGPA for the new degree programme.

(c) All regulations in respect of the new degree programme concerning core, required courses etc must be met before graduation.

(16) **Honours classification**

(a) No student shall qualify for award of an honours degree of the university if he/she spends more than two sessions (four semesters) beyond the normal period allowed for the degree programme.

(b) No student who has transferred more than twice will be qualified for an honours degree.

**Award of degree**

At the end of the degree programme, student’s results are prepared reflecting details of the session’s performance, including list of courses failed for the session as well as the cumulative

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Class of degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.50 – 5.00</td>
<td>First class honours</td>
</tr>
<tr>
<td>3.50 – 4.49</td>
<td>Second class honours (Upper Division)</td>
</tr>
<tr>
<td>2.40 – 3.49</td>
<td>Second class honours (Lower Division)</td>
</tr>
<tr>
<td>1.50 – 2.39</td>
<td>Third class honours</td>
</tr>
</tbody>
</table>

Performance including the degree classification according to the following scheme:
(17) **Conferment of Degree**

After the recommended examination results from the college board shall have been approved by the university senate successful candidates shall be admitted either in person or in absentia to the degree of the university at the convocation for the award of degree, and thereafter issued with certificates under the common seal of the University.

**COURSE STRUCTURES/DESCRIPTIONS**

**100 Level**

**First Semester**

<table>
<thead>
<tr>
<th>S/N</th>
<th>Course Code</th>
<th>Course title</th>
<th>Course unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>CSC 111</td>
<td>Programme concept using visual basic</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>CSC 112</td>
<td>Internet &amp; networking fundamental</td>
<td>3</td>
</tr>
<tr>
<td>03</td>
<td>CSC 113</td>
<td>Use of packages</td>
<td>2</td>
</tr>
<tr>
<td>04</td>
<td>MTH 111</td>
<td>Algebra and trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>05</td>
<td>MTH 112</td>
<td>calculus</td>
<td>3</td>
</tr>
<tr>
<td>06</td>
<td>PHY 112</td>
<td>General physics</td>
<td>2</td>
</tr>
<tr>
<td>07</td>
<td>GST 111</td>
<td>Communication in English I</td>
<td>2</td>
</tr>
<tr>
<td>08</td>
<td>GST 112</td>
<td>Logic, philosophy and Human existence</td>
<td>2</td>
</tr>
<tr>
<td>09</td>
<td>GST 113</td>
<td>Nigerian people and culture</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Sub total</strong></td>
<td></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>S/N</th>
<th>Course Code</th>
<th>Course title</th>
<th>Course unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>BUS 111</td>
<td>Introduction to Business Management I</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>ACC 111</td>
<td>Introduction to Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>03</td>
<td>ECO111</td>
<td>Principles of economics I</td>
<td>3</td>
</tr>
<tr>
<td>04</td>
<td>PHY 111</td>
<td>Mechanics, Thermal Physics and Matter</td>
<td>3</td>
</tr>
</tbody>
</table>

**CSC 111: Program Concept Using Visual basic (Compulsory – 3 units)**

**Prerequisite:** Pre –Degree

**Course content:** Programming languages classification, comparison of High and Low level languages, translators, assemblers, compliers and interpreters, object oriented programming languages. Software development tools. Computer language families, procedural, structural, etc. program development methods and steps (Algorithms: flowcharts, pseudocodes, UML tool etc) qualities of a good programe syntax, statements and commands, including disk file processing or of the selected programming language.

Practical session: Supervised Basic programming exercises weekly or in any other programming language.

Course Duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical and practical exams.
CSC 112: Internet & Networking Fundamentals (compulsory – 3 units)
Prerequisite: Pre-degree
Course content: Networking concept & definitions. Hardware and software components.
Practical session: visit to internet centers, HTML programming exercises, simple networking
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a assessment shall be on the basis of continuous assessment (CA), and theoretical and practical exams.

CSC 113: Use of packages (compulsory – 3 units)
Prerequisite: pre –degree
Course content: General introduction to computer science. Computer hardware (History of computer, generation of computers, evolution and types of computers, classification of computers, architecture, data representation in memory, typical computer configuration). Computer software (History & generation, software types programming languages and features). Programming steps. Introduction to windows and DOS operating system. Organization chart of computer center. Categories of computer application. Use of computers, advantages and disadvantages of computers. Introduction to word processing data communication (basic concept & methods, computer network, internet & E-mail concept) data processing (Properties, type of processing, Batch processing). Number representation (Binary mathematics, number conversion). Computer viruses and protections.
Practical session: Physical computer operations, hardware study.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical and practical exams.

MTH 111: Algebra Trigonometry (Compulsory – 3 units)
Pre-requisite: Pre-Degree
Course content: Elementary set theory, subsets, union intersection, complements and venn diagram properties of some binary operations of sets. Real number systems, simple definitions of integers, rational and irrational numbers. The principle of mathematical introduction, real equations, binomial theorem, partial fractions, permutation and combination, circular measure, trigonometric functions of angles of any magnitude. Addition and factor formulate complex number, algebra of complex numbers, the argand diagram. De moivre theorem.
Practical session: assignment (including simple application programming exercises)
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA), and theoretical exams.

**MTH 112: Calculus (compulsory – 3 units)**

**Prerequisite: Pre-degree**

**Course content:** Elementary functions of single real variables and their graphs, limits and continuity, graphs of simple functions (polynomial, rational, trigonometric, etc.) differentiation (limit of rate of change of element, functions, product quotient, function of function rules), implicit differentiation, differentiation of trigonometric, inverse trigonometric functions and exponential function, logarithmic & parametric differentiation, rate of change (tangent & normal) to a curve, use of binomial expansion for any index, stationary values of simple function, maximal and minimal, points of inflexion, integration by substitution & by parts, definitive integral, volume of revolution areas.

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

**100 Level Second Semester**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credit unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 121</td>
<td>Fortran programming (C)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 122</td>
<td>IT application, policy &amp; IT current Trends (C)</td>
<td>3</td>
</tr>
<tr>
<td>CSC 123</td>
<td>Computer systems Mtc/electronic (C)</td>
<td>3</td>
</tr>
<tr>
<td>MTH 123</td>
<td>Probability &amp; Statistics (C)</td>
<td>3</td>
</tr>
<tr>
<td>PHY 100</td>
<td>Practical Physics (C)</td>
<td>2</td>
</tr>
<tr>
<td>PHY 123</td>
<td>Waves, Vibration &amp; Optics (C)</td>
<td>2</td>
</tr>
<tr>
<td>GST 121</td>
<td>Use of library, studyt skills &amp; ICT (C)</td>
<td>2</td>
</tr>
<tr>
<td>GST 122</td>
<td>Communication in English II (C)</td>
<td>2</td>
</tr>
<tr>
<td>GST 123</td>
<td>Communication in French II (C)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

**CSC 121: Fortran programming (compulsory 3 credit unit)**

**Prerequisite: CSC 111, CSC 114**

**Course contents:** Meaning & History of FORTRAN. Types & acceptable characters, mathematical symbols & common function, complication steps. FORTRAN coding sheet, essential or edit program. Conditions for variable names, data types, default, implicit, explicit data types, data type range, BODMAS, converting formulae to FORTRAN, relational operators, name, parameter, data assignment type, stop, END, read, write, Format, field descriptors, Arrays, GOTO, continue, IF versions, Do loop. Subprograms, Disk Input/Output, printing, character handlings, substring.

Practical session: FORTRAN (77 96) programming exercises

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.
CSC 122: Information Technology Application, Policy & Society  
(compulsory 3 credit unit)

Prerequisite: CSC 112, CSC 113

Course content: Introduction to IT, Technology & sciences, Historical perspective . IT ethics, four ethical issues in information age (PAPA), society & IT, impact of IT on employment & productivity, competition, individuals, quality of life, privacy, people with disability, computer & IT industries (Professional careers). Property of Infotech, property of Infosphere, policy on copyright and citation, E-commerce, legal concerns in E-commerce, information technology & organizational structure. Application of IT in education, Health, government, security, application of E-technology.

Practical session: Research work, term paper, visit to IT companies.

Elementary WEB design

Course duration/examination: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

CSC 123: Computer System Maintenance & Basic Electronics (Compulsory 3 Credit Unit)

Prerequisite: CSC 113, PHY 112

Course content: Introduction to computer system, computer system parts, maintenance techniques, approach & tools, diagnostic techniques, system assembly & installation, OS & software installation, troubleshooting & repairs, (Hardware & software). Basic electronics concepts, electronic system, signal & processing, properties & models for resistors, capacitors, inductors, circuit design & analysis (Ohm’s law, kirchhoffs laws, Thevenin’s Theorem). Sensors resistive, capacitive & piezoelectric sensors). Instrumentation, digital amplification & gain, signal conditioning using Op-amps (Buffers, comparators). Analogue to digital converters.

Practical session: hardware laboratory exercises.

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

MTH 122: Ordinary Differential Equations (Elective – 3 units)

Prerequisite: Pre-degree, MTH 112

Course content: formation of differential equations, first order equations, homogenous first and inhomogeneous first order, Yanasee separable exact, homogeneous and linear, integrating factors. Application in population dynamics, chemical and biochemical kinematics periodic coefficient, linear motion of particle. The second order equation with constant coefficients. Exponential solutions, complex characteristics roots. The method of undetermined coefficients (application)

Practical session: assignment (including simple application programming exercises)

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.
MTH 123: Probability and Statistics (compulsory – 3 units)
Prerequisite: pre-degree
Course content: Introduction to statistics diagrammatic representation of descriptive data, measures of location & dispersion of ungrouped data. Problems of grouping, associated graphs. Introduction to probability sample space & events addition law, multiplication law, use of permutaion & combination, probability theory, binomial distribution, linear correlation, scatter diagram, product moment & rank correlation, linear regression, analysis of variance.
Practical session: assignment (including simple application programming exercises)
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

200 Level
First Semester

<table>
<thead>
<tr>
<th>S/N</th>
<th>Course code</th>
<th>Course title</th>
<th>Course unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>CSC 211</td>
<td>Structured programming in PASCAL</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>CSC 212</td>
<td>Data processing and management information system</td>
<td>3</td>
</tr>
<tr>
<td>03</td>
<td>CSC 213</td>
<td>Advance networking and data communication</td>
<td>3</td>
</tr>
<tr>
<td>04</td>
<td>CSC 214</td>
<td>Assembly languages programming</td>
<td>3</td>
</tr>
<tr>
<td>05</td>
<td>CSC 215</td>
<td>Database concepts and programming</td>
<td>3</td>
</tr>
<tr>
<td>06</td>
<td>MTH 211</td>
<td>Linear algebra</td>
<td>3</td>
</tr>
<tr>
<td>07</td>
<td>GST 211</td>
<td>History and philosophy of science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sub total</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>S/N</th>
<th>Course code</th>
<th>Course title</th>
<th>Course unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>MTH 213</td>
<td>Real analysis</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>MTH 214</td>
<td>Mathematics method I</td>
<td>3</td>
</tr>
<tr>
<td>03</td>
<td>BUS 211</td>
<td>Principle of management I</td>
<td>3</td>
</tr>
<tr>
<td>04</td>
<td>ACC 211</td>
<td>Financial accounting I</td>
<td>3</td>
</tr>
<tr>
<td>05</td>
<td>ECO211</td>
<td>Micro economics theory I</td>
<td>3</td>
</tr>
</tbody>
</table>

CSC 211: Structure Programming in PASCAL (compulsory – 3 units)
Prerequisite: CSC111
Practical session: PASCAL or DELPHI programming exercises.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.
CSC 212: Data Processing And Management Information System
(compulsory – 3 units)
1st semester
Prerequisite: CSC 111, CSC 112, CSC 113
Course content: Introduction to management organization & computer system. System development life cycle. Managerial structure within organization. Evolution of information system. Structure of MIS. Decision making process, work-study, organization & methods (O&M). principles of design & use of packages in area covered in MIS. Decision support system. Information needs of managements.
Practical session: term paper on MIS applications.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

CSC 213: Advance Networking and Data Communication (compulsory – 3 units)
Prerequisite: CSC 112, CSC 113
Practical session: term paper, visit network environment & assignment.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

CSC 214: Assembly Language Programming (compulsory – 3 units)
Prerequisite: CSC 111, CSC 113
Course content: Distinction between high languages & assembly languages. numbering system (conversions in base 2,8,10 and 16), 1’s and 2’s compliment. Machine language programming. IBM microprocessor and memory architecture, use of memories & register. Introduction to assembly language statements and syntax. Addressing mode, flags, reporters. Arithmetic operations, move Ops, Bits manipulations using shift, rotate operations etc. stack implementation using assembly language. Macro & procedure definition.
Practical session: Assembly programming exercises.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

CSC 215: Database Concepts and Programming (compulsory – 3 units)
Prerequisite: CSC 111, CSC 113, CSC 114
Course content: Definition of common related terms (database architecture. Condition for DBA). Database architecture. Condition for DBMS, Advantages and Disadvantages

Practical session: Assignment to create sequential, direct files using any of the following: ACCESS, ORACLE, FORTRAN, VB, BASIC, SQO.

Course duration/regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

MTHS 211: linear Algebra (compulsory – 3 units)
Prerequisite: MTH 111
Practical session: Assignment (including simple application programming exercises)
Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

MTH 213: Real Analysis 1 (elective – 3 units)
Prerequisite: MTH 111, MTH 122
Course content: Limits, sums, products, quotient of limits convergence of sequence & series of real numbers, test for convergence of series of nonnegative terms, absolute & conditional convergence. Alternating series, brackets, rearrangement, cavchy multiplication continuity, uniform continuity, monotonic function, differentiability, role’s mean value theorems for differentiable functions Taylor series, indeterminate forms.
Practical session: assignment (including simple application programming exercises).
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

MTH 214: Mathematical Methods I (elective – 3 units)
Prerequisite: MTH 112, MTH 122
Course content: Some techniques of integration by parts and by partial fractions. Reductions, formula, differentiations, partial differentiation, application and classifications of critical points of functions of two variables, lagragian multipliers, co-ordinate system change from Cartesian to polar, spherical and cylindrical co-ordinate systems. Taylor’s and Maclaurin’s series, leibnitz’s rule (application. To the solutions of differential equations). Complex number (hyperbolic functions, De moivre’d theorem, roots of complex numbers, root of polynomials exponential form functions of complex variables).
Practical session: assignment (including simple application programming exercises).
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

MTH 215: Ancillary Mathematical (elective – 3 units)
Prerequisite: MTH 112, MTH 122
Course content: Elements of set theory, quadratic equations graph of simple functions, polynomials, logarithmic & trigonometric, matrices, addition, multiplication, inverse of matrices, and solution of linear equation in three unknowns. Trigonometric ratios, sum of angles small angles, solution of triangles. Differentiation and integration, area of volume of solid. Descriptive statistics; mean, median, mode, standard deviation, frequency distribution ad related graphs suitability for biochemistry, microbiology.
Practical session: assignment (including simple application programming exercises).
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

MTH 216: Set Theory and Algebra (Elective – 3 units)
Prerequisite: MTH 112, MTH 123
Practical session: assignment (including simple application programming exercises).
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

(Second Semester)

<table>
<thead>
<tr>
<th>S/N</th>
<th>Course code</th>
<th>Course title</th>
<th>Course unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Compulsory courses</strong></td>
<td></td>
</tr>
<tr>
<td>01</td>
<td>CSC 221</td>
<td>Data structure</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>CSC 222</td>
<td>Objected–oriented programming in C++</td>
<td>3</td>
</tr>
<tr>
<td>03</td>
<td>CSC 223</td>
<td>Web technology &amp; portal design</td>
<td>3</td>
</tr>
<tr>
<td>04</td>
<td>CSC 224</td>
<td>Human–computer interaction</td>
<td>3</td>
</tr>
<tr>
<td>05</td>
<td>MTH 221</td>
<td>Numerical analysis</td>
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<tr>
<td>06</td>
<td>GST 221</td>
<td>Peace studies and conflict resolution</td>
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<tr>
<td>01</td>
<td>MTH 222</td>
<td>Applied Statistics</td>
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<tr>
<td>02</td>
<td>MTH 223</td>
<td>Mathematical methods II</td>
<td>3</td>
</tr>
</tbody>
</table>
CSC 221: Data Structure (compulsory 3 – credit units)
Prerequisite: CSC 111, CSC 211
Course content: Definition of basic terms & elementary data structure, data field, subfield, record, file, coding, system (ASCII, EBCDIC), characters integer, Real, Boolean, fixed, floating point, exponent, mantissa, alphanumeric, string, constant, literal, attributes of data & variables (Name, value range, length, type, Address, decimal places). Operation on elementary data type (assignment, concatenation, arithmetic & logic ops). Arrays (1,2, dimensional arrays, arrangement/mapping in storage, column, rows use in fortran pascal, java, C++ as example), list (linear, circular, linked lists, pointers, operation on lists, insert, delete, add, search, sort), stacks, queues, deques, trees (definition, graph, root leaves, leaves, level nodes, vertex, parent, children, siblings, ancestors, descendants, subtree, height, dept, length), types of tree (pedigree, linear, genealogical, decision, games, AVI, binary, 2-3 trees, B-trees, spanning). Traversal algorithms, recursion, block programming techniques, searching & sorting algorithms, symbol tables and Hashing, other types of trees.
Practical session: Pascal, C++, Java, C#, Basic programming exercises
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

CSC 222: Object-Oriented Programming in C++ (compulsory credit unit)
Prerequisite: CSC 111
Course content: Object oriented programming concept property of OOP, encapsulation, type extensibility, construction of object conversion, operation, seamless type inheritance, polymorphism, program elements, functions & pointers, OOOp language requirement, reuse & inheritance, language complexity, design principles, schema diagram & tools.
Practical session: C++ (command line & visual) programming exercises.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

CSC 223: Web Technology & Portal Design (Compulsory 3 Credit Unit)
Prerequisite: CSC 112, CSC 122
Course content: Web page technology & concept, web application, WEBM, web browser, web hosing, web map, web sever, web middleware, web programming, HTML concept, web page design processes (planning, analysis, design, implementation, promotion & innovation). Web management & security.
Practical session: web design/scripting programming exercises.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.
CSC 224: Human – Computer Interaction (Compulsory 3 Credit Unit)
Prerequisite: CSC111, CSC 112
Course content: Human computer interaction concept review of interaction style. Current research in HCT, application of current HCT styles, theories, design of interface, principles, guilds, technologies for HCI, gesture recognition, Aumented reality, HCI for disabled people, CSCW, HCT for web page design. Practical session: VRML, 3D, Web design programming exercise. Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and practical exams.

MTH 221: Numerical analysis (compulsory – 3 units)
Prerequisite: MTH 112, MTH 122, MTH 211
Course content: Introduction to numerical computation solution of nonlinear equations, solution of simultaneous linear equations. Direct and iterative schemes, finite difference operators, interpolation and approximation. numerical solution of differentiation & quadrature. Numerical solution of differential equations, curve fitting and least square. Practical session: assignment (including simple application programming exercises) Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

MTH 222: Applied statistics (elective – 3 units)
Prerequisite: MTH 123
Course content: Revision of descriptive statistics. Measures of location and dispersion, graphical representation of data. Inference about means, proportion and standard deviations; large and small samples. The chic square test of independence and goodness of fit. One way analysis of variance. Correlations and regression, tests of simple regression and correlations coefficients estimation and prediction in multiple regression. Use of calculators, tables and statistical packages. Introductory inference, meaning and existence of sampling distributions, sampling distributions of the mean and proportions in large samples. Pint and interval estimation of means and proportions, simple hypothesis testing. Practical session: assignment (including simple application programming exercises) Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

MTH 223: Mathematics Methods II (Elective – 3 units)
Prerequisite: MTH 112, MTH 122, MTH 214
Course content: Differential equations. Solution in series; fourier series and applications, fourier method of solution. Special operators. Hermitic and unitary operators. Eigenvalues and eigenvectors. The classical orthogonal polynomials (legendary, hermit and leguesrepoly nomals.) redrigue’s formula, special functions, gamma and beta function, elementary properties of the hypergeometric functions.

Practical session: assignment (including simple application programming exercises).

Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

300 Level
First Semester

<table>
<thead>
<tr>
<th>S/n</th>
<th>Course code</th>
<th>Course title</th>
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<td>Compulsory courses</td>
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<tr>
<td>01</td>
<td>CSC 310</td>
<td>Systems analysis and design</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>CSC 311</td>
<td>digital design and architecture</td>
<td>3</td>
</tr>
<tr>
<td>03</td>
<td>CSC 312</td>
<td>Formal language and Automata</td>
<td>3</td>
</tr>
<tr>
<td>04</td>
<td>CSC 313</td>
<td>Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>05</td>
<td>CSC 314</td>
<td>Advanced object – oriented programming in JAVA</td>
<td>3</td>
</tr>
<tr>
<td>06</td>
<td>CSC315</td>
<td>Statistical analysis and packages</td>
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<tr>
<td>07</td>
<td>CSC316</td>
<td>Wireless networking and data communication</td>
<td>3</td>
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<tr>
<td>08</td>
<td>CSC 317</td>
<td>Network mathematics and graph theory</td>
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<tr>
<td>09</td>
<td>CSC 318</td>
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<td>01</td>
<td>CSC 319</td>
<td>Form design and web management</td>
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<tr>
<td>02</td>
<td>BUS 311</td>
<td>Human resources management</td>
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<td>ECO 311</td>
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</table>

CSC 310: System Analysis And Design (compulsory – 3 units)

Prerequisite: CSC 112, CSC 113, CSC 215

Course content: Definition: definition of common concept (system, system analysis, design, system analyst, attributes of a system, reason for system change & system analysis, attributes & function of the analyst, objectives or goal of system analysis/design). System development life cycle/phases (feasibility, system analysis, design, programming, implementation, evaluation documentation/maintenance) detail study of the six phases listed above. Preliminary investigation, determine scope, 1st management report, data gathering (sampling of work/documents, questionnaire/forms design, organograms, interview, observation/workstudy). Data analysis, documentation, design consideration. Detail system design security, machine requirements, system conversion, testing. Object oriented analysis & design (OOAD), tools for analyst & design application (organization chart, audit trails, flowchart, blackbox, HIPO. Technical report writing, literature review techniques, O & M, workstudy. Decision tables, statistical analysis, operation research, hardware specification, mathematical model, data dictionaries, program specification, marketing, disk layout chart, training techniques, printer spacing chart, data flows graft charts.
Practical session: term paper on system analysis & design of a system of the students choice & assignments.
Course duration/regulation: this course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exams.

CSC 311: Digital Design And Architecture (compulsory – 3 units)
Prerequisite: CSC 112, CSC 226, PHY 221
Course content: Evolution of digital systems (SS1, MS 1, LS1, & VLS1). Introduction to combinational amd Sequential digital system, synchronous system, processors, memories & logic. Combinational circuit. Boolean function, canonical form, k-map, significations & symmetric functions. Combinational circuit design using MS1 block, decoders, multiplexers, ROMS, PLAs, Iterative circuits, adders & comparators. Pattern matching examples. Minimization using quine-mcluskey method for completely specified as well as incompletely specified function. Definition of implicants, prime implicants & essential prime implicants, register & counters. Basic logic design, data representation, instruction formats. Computer architecture, clock & reset circuitry, memory map design, serial I/O, exception & interrupt, ALU design, system Bus memory. Computer arithmetic, instruction sets,

Field Assessment: The IT supervising lecturer shall is required to visit the student on IT and access the students on the basis of performance on the field and the attestation on the Report/Log Book and score.

SIWES Defense: after the duration of 6 months the student is expected to defend the work experience before a constituted panel.

Course Duration/Regulation: this SIWES shall be covered within ix months on the basis of field assessment and SIWES Defense.

400 Level
First Semester

<table>
<thead>
<tr>
<th>S/No</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Unit</th>
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<tr>
<td>01</td>
<td>CSC411</td>
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<tr>
<td>02</td>
<td>CSC412</td>
<td>Operating System</td>
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<tr>
<td>03</td>
<td>CSC413</td>
<td>Design and Analysis of Algorithm</td>
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<tr>
<td>04</td>
<td>CSC414</td>
<td>Software Engineering</td>
<td>3</td>
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<tr>
<td>05</td>
<td>CSC415</td>
<td>Coding System and Information Theory</td>
<td>3</td>
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<tr>
<td>06</td>
<td>CSC416</td>
<td>Compiler Construction</td>
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<td>01</td>
<td>CSC417</td>
<td>Structured Programming</td>
<td>3</td>
</tr>
<tr>
<td>02</td>
<td>CSC418</td>
<td>Management Science</td>
<td>3</td>
</tr>
</tbody>
</table>
CSC411: Seminar (compulsory – 6 units)
Prerequisite: All compulsory courses from 100L to 400L (1\textsuperscript{st} and 2\textsuperscript{nd} semesters)
Course Content: Seminar topics chosen from a variety of Computer Science, Information and Communication technology areas, which includes computer installation in various fields, computer installation, maintenance and architecture, computer management and administration, software engineering, data communication and networking, internet, ICT concepts, artificial intelligence agents, mathematical models, etc.

Course Duration/Regulation: this course shall be covered within 15 weeks. The examination shall be on the basis of supervisor’s and External examiner’s assessment.

CSC412: Operating System (compulsory – 3 units)
Perquisite: CSC111, CSC211
Course Content: Definition of concept with examples OS, DMA, Channel, interrupt, pooling multiprogramming, Environment (Batch, multiprogramming, network). Functions of OS, Design consideration, Adaptation, Implementation, Installation of OS.


Practical Session: Assignment & Technical report on any OS.
Course Duration/Regulation: this shall be covered within 15 weeks of 3 hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

CSC413: Design and Analysis of Algorithm (compulsory – 3 units)
Prerequisite: CSC111, CSC211, CSC313.

Practical Section: Pascal, Basic, Visual Basic, Java, C# Programming exercises.
Course Duration/Regulation: this course shall be covered within 15 weeks of 3 hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC414: Software Engineering (compulsory – 3 units)**

**Prerequisite:** CSC 111, CSC 211

**Course Content:** Meaning and goal of software engineering. Problem of Software engineering principles, (requirement and specification analysis) Software design strategies. Software production process, model, implementation, testing and documentation. Software verification, software fault tolerance, exception handling and reporting, Software matrix.

**Practical Session:** Pascal basic, Visual Basic, Java C++ and any other programming exercises.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC415: Coding System and Information Theory (Compulsory units)**

**Prerequisite:** CSC 112, CSC 213

**Course Content:** Types of coding system (Block, Convolution, Iteration, Binary etc) Some basic codes and their construction. Advantages, Information measuring and quantity, source coding fundamental coding theorem, classic code, parameter, linear codes, cyclic code, trellis, algorithm viterbil, spectral-efficient transmission, trellis-coded modulation. Information theory concept, Shannon-feno and Huffman theory and codes, compression and transmission, algorithm for loss less source. Encoding for error-correcting. Channel coding and public key. Information measuring entropy capacity of discrete noiseless channels and continuous Gaussian noise channels to match source to channels.

**Practical Session:** Term paper or Assignment

**Course Duration/Regulation** This course shall be covered within 15 weeks of 3 week hours per or 45 lectures in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

**CSC416: Compiler Construction (Compulsory – 3 units)**

**Prerequisite:** CSC 111, CSC 214, CSC 312
Course Content:
Logical analysis, Lexical and Syntactic analysis, Coding generation, code optimization. Translator writing system. General language terminology. Precedence (operator precedence, II-parse, Top-down and Bottom-up parsing grammars).

Practical Session:
Technical report on some compilers.

Course Duration/Regulation:
This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

CSC 417: Structured Programming (Elective – 3 units)
Prerequisite: CSC211
Course Content:
Principles of good programming style expression structured programming. Concept control, flow, invariant relations of a loop stepwise refinement of both statement and data programme modularization (bottom up approach, top down approach, nested virtual machine approach). Language for structured programming changing, testing, verifying code, inspection, semantic analysis, test construction, program verification, test generation and running.

Practical Session:
Use of C++, Visual Basic and Java prolong programming environment.

Course Duration/Regulation:
This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

CSC 418: Management Science (elective – 3 units)
Prerequisite: CSC212
Course Content:
Project planning and control. Economic evaluation of investment decision, management information system concepts, work-study, organization and methods (O and M) principle of design and use of packages in the areas covered in operation research including inventory management, queuing game, models, decision theories, modelling and simulation, intelligence, optimization models, forecasting, cost analysis etc. Selected areas in management science techniques, Network theory and application, decision support system.

Practical Session:
Term paper on related topics and assignments.

Course Duration/Regulation:
This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.
MTH413: Experimental Design and Survey (Elective - 3 units)

Prerequisite: MTH123


Practical Session: Term papers on reports on design of experiments and sample surveys.

This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical exam.

### 400 LEVEL (Second Semester)

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<td>CSC421</td>
<td>Advanced Design, Security and Current Trends in IT</td>
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<td>CSC422</td>
<td>System Programming</td>
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<td>CSC423</td>
<td>Data Communication Software Design</td>
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<td>05</td>
<td>CSC424</td>
<td>Advanced Multimedia &amp; Internet</td>
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<td>CSC425</td>
<td>Mobile Computing &amp; Communication System</td>
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</table>

CSC400: Project (Compulsory 6 credit Units)

Prerequisite: All previous courses

Course Content: Project topic to be chosen and approved by the department and under the direction and supervision of a Lecturer. Each student shall choose a topic that has programming logic.

Course Duration/Regulation: This course shall be covered within 15 weeks. The examination shall be on the basis of Supervisor and External Examiner assessment. Work may start in the First Semester but it is essentially a Second Semester Course, when defence shall be done and corrected.

CSC421: Advanced Design, Security and Current Trends in IT
Compulsory 3 unit
Prerequisite: CSC112, CSC212, CSC213
Course Content: Review of IT issues, Policy and Implementation in Nigeria, Security concept and Mechanism, Certificate and certification (SSI,PRI) Authentication & Authorization (Kerberos, Token base) Cryptography (Secret-key, Public –key, Hash function, Crypt-analysis), Digital Signature, Encryption, (process and standards (DES) and Triple (DES), CAST-128 and CAST-2256, Fault tolerance and high availability, Disaster planning and recovering
Practical Session: Term paper assignment and visual basic, Java, C++ programming exercise
Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

CSC422: Systems Programming (Compulsory 3 credit unit)
Prerequisite: CSC111, CSC211, CSC214
Course Content: Advance Programming techniques in Assembler, macro language and high level languages, system architecture, kernel component and relationship to system, programming, Object and handles, Memory management, memory allocation, Paging and working sets, System software (Loaders, Linkers, Assembler, Interpreters, Compiler, Creating and using thread, handling synchronize resources, using named pipes and mail slots, using registry.
Practical Session: Assembler, C++, Pascal programming exercises
Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

CSC 423: Advanced Multimedia & Internet (Compulsory 3 credits unit)
Prerequisite: CSC112, CSC225
Course Content: Multimedia concepts (graphics images, audio, animation, video, hypermedia) Internet multimedia protocol (MGCP, RTP, RSTP, SAP, SDP, SCCP, RSVP), Multimedia issues (congestion control mechanism, differentiated service, integrated service, Traffic management, Shaping and Engineering) Multimedia in Web pages, Video conferencing, Mobile computing, Online tutorial, Browser, Collaborative computing, ITU standards (H-series, H-323, VOIP, SS7).
Practical Session: HTML, DHTML, XML, CSS and Animation Software programming exercise
Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

CSC 424: Mobile Computing and Communication Systems (Compulsory 3 units)
Prerequisite: CSC 112, CSC 316
Course Content: Mobile computing and Communication system, Mobile computing concept, mobile computing technology, wireless mobile communication concept, cellular system and topology, analog to digital, IG – 4G generation. Cellular standards, SMR, Intellimino, WAP, SMS, Mobile IP, Roaming L2TP, SSP, HDML, AMDS, CDPD, GSM packet radio communication, PCS, CDMA and TDMA.
Practical Session: WML, SM, CSS programming exercises

CSC 425: Advanced Graph Theory and Applications (Elective 3 credit unit)
Prerequisites: CSC 111, CSC 222, CSC 317
Course Content: Block graph partition, Bridges, Matches, Graph applications and programming, examples of NP complex problems.
Practical Session: Programming exercises for graph and animation.

CSC 426: Cybernetics and Ergonometric (Elective 3 credit unit)
Prerequisite: CSC 224, CSC 310
Course Content: Intelligent machines in man’s environment. Man-computer interactions, simulations of man, machines. The Brain versus CPU, Cybernetics and Elementary Ergonomics.
Practical Session: Term paper and assignment

CSC 427: Modeling and Simulation (Elective 3 credit unit)
Prerequisite: CSC 121, CSC 211, CSC 321
Course Content: Various simulation model, simulation languages (SIMULA, SIMSCRIPT GASUSGESS etc) General
definition types of models, why stimulation. Simulation method – ergonomic cobweb recurrence, Differential equations, Queuing, analog, statistical, probability, Quality control, Forecasting method etc, Programming of simulation using high level language like Pascal, ForTran, Basic, VB etc) and packages like SPSS, SIMULA SIMSript, GESS etc) Simulation programming technologies of countering statistics, Data structure, Scheduling/Scanning samples of simulation reports.

Practical Session: Programming exercises.

Course Duration/Regulation: This course shall be covered within 15 weeks of 3 hours per week or 45 lecture hours in a semester. The overall assessment shall be on the basis of continuous assessment (CA) and theoretical and Practical exams.

Note: The 300Level students are required to register for a 3 unit elective course to make up for the minimum required unit at that level.

<table>
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<tr>
<th>Minimum and maximum number of courses required for Bachelor Degree in Computer Science and Information Technology</th>
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DEPARTMENT OF PHYSICS/INDUSTRIAL PHYSICS

PREFACE

The handbook for the Department of Physics/Industrail Physics contains updated information on the philosophy/objectives of the Department including information on the staff, programmes, courses structure, duration of programmes and options available to students.

The handbook will be invaluable to the students; staff and courses advisers in guiding students throughout the duration of the programmes.

PREAMBLE

The Department of Physics/Industrial Physics offers courses in two programmes leading to the award of Bachelor of Science (B.Sc.) honours Degree in:

- Physics
- Industrial Physics

Presently, the Department provide service courses for all level Science based Departments in the University.

Philosophy/Objectives of the Department

Physics deals with the fundamental aspects of nature – matter, energy and all sues related to the structure and properties of the physical world. Thus, it elucidates the simplest fundamental questions about nature and forms the base of scientific knowledge. Its impact on technology, industries and energy generation and distribution is unquestionably great, industry and technology are essentially applied physics.

The programme in Igbinedion University, Okada is designed to inculcate in students an inddepth understanding of Physics principles and concept which will help them to acquire

I. Scientific knowledge
II. Skills and process of science; and
III. The ability to apply science (Physics) in industry and life-situations

These will make the graduates in Physics become functional citizens who will seek employment not just in the education sector, but also in varied fields of industry, research information and communication technology (ICT), medicine, finance houses etc. most essentially, the graduates of the programme will become able to respond to the evolving and dynamic changes in science and technology in line with the megatrends of the modern world.

The curriculum emphases electronics, unclear/modern Physics and aspects of geophysics. The graduates will just only seek employment, they will be equipped to create employment too.
**Degree Programmes Proposed for the Department**

The Department proposes to two programmes:

1. Industrial Physics and Physics leading to the award of:
   a) B.Sc. (Honours) Industrial Physics
   b) B.Sc. (Honours) Physics

2. Postgraduate courses will be established when the undergraduate programme matures

**Admission Requirements**

Candidates will be admitted into the B.Sc. Degree Programmes through any of the modes:

I. University Matriculation (UME)
II. Direct Entry
III. Inter – College Transfer
IV. Inter – University Transfer.

I. University Matriculation (UME)

In addition to approved pass criteria by the Joint Matriculation Board (JAMB) in the UME, candidates seeking admission into the Physics/Industrial Physics Department must have at least credit passes in the GCE (OK), SSCE/NECO in five (5) subjects including English Language, Physics, Mathematics, Chemistry and any other subject at not more than two (2) sittings.

In addition to (i) above, candidates are required to submit themselves for a written and oral screening exercise in the University before admission is finally offered to short-listed qualified candidates.

II. Direct Entry Mode

Candidate for direct entry may have:

a) Two (2) A/level passes in Physics and Mathematics or Physics and Chemistry.

b) Nigeria Certificate in Education (NCE) in Physics/Mathematics; Physics/Chemistry or Physics/Computer Science, Physics must be passed at the credit level.

c) Ordinary National Diploma (OND) with Physics/Industrial bias.

III. Inter-University Transfer

Candidates wishing to transfer into the Department of Physics/Industrial Physics from another approved University must:

a) Obtain and fill the inter-University transfer from the Igbinedion University Admission Officer in the University Registry;

b) Satisfy the Department minimum standard required for the appropriate level (200L) or order to satisfy the 3 academic sessions duration in the Department before graduation.

Physics and Industrial Physics B.Sc. Degree programme shall run for a minimum of four (4) academic sessions for the UME admission and three (3) academic sessions for direct entry candidates.

**Evaluation of Students Course Work**
The students’ course work will be evaluated for grading using the following contents

a) Continuous Assessment
b) Written Examination at the end of a semester
c) Practical work
d) Industrial work Experience (SIWES)
e) Project and seminar (400L)

Grading of Examinations
The grading of theory courses shall consist of

I. Continuous Assessment (30%)
II. End of semester within examination (70%)
III. Grading of Practical work is based on the written reports of selected hands on experiments (60%) and written examination at the end of the session (40%). These give a total of 100%.

The pass mark for every examination is 45% – 100%

The grading system is as follows:

<table>
<thead>
<tr>
<th>SCORE</th>
<th>GRADE</th>
<th>GRADE – POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 – 100%</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69%</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59%</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>45 – 49%</td>
<td>D</td>
<td>2</td>
</tr>
<tr>
<td>00 – 44%</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

Registration of Courses
Students must register for all approved courses specified for each level in the Departmental handbook at the beginning of each academic session. Students proceeding to higher levels must register any failed courses first, before any new courses up to maximum of approved credit load for that level each session.

No student can register for more than 25 credit units for a semester at 50 credit units for a whole academic session.

Regulations Governing First Degree Programme
Programmes of study shall be provided leading to the award of Bachelor’s Degree (B.Sc. Honours) in Science to be designated as

a) B.Sc. (Honours) Industrial Physics
b) B.Sc. (Honours) Physics

Teaching Method
Instruction shall be by lectures/demonstrations and student individual work. Students will be required to take an appropriate combination of courses and undergo a work experience (SIWES) relevant to Physics/Industrial Physics as senate may approve from time to time on the recommendation of the Department and the College Board.

Approved Department Codes for Courses

<table>
<thead>
<tr>
<th>COURSE</th>
<th>LEVEL</th>
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<tbody>
<tr>
<td>PHY 100 – 199</td>
<td>100 Level Courses</td>
</tr>
<tr>
<td>PHY 200 – 299</td>
<td>200 Level Courses</td>
</tr>
<tr>
<td>PHY 300 – 399</td>
<td>300 Level Courses</td>
</tr>
</tbody>
</table>
Categorization of Courses
All courses designed in the curriculum for all levels are compulsory. At the 300 level, students can choose between Industrial Physics and Physics. Students will be advised on the relevant courses to be taken based on choice of specialization. Total credit load will not exceed a maximum of 130 units before graduation.

Elective Courses
These are courses which a student must take in respect of the Physics/Industrial Physics programme. The student must accessorily pass the course to graduate.

Graduation Requirements:
1. Minimum number of sessions for graduation are:
   a) Four (4) academic sessions for UME candidates
   b) Three (3) academic sessions for Direct Entry candidates.
2. Minimum CGPA for graduation is 1.50
3. Minimum number earned credit units for graduation is 30 per session ie:
   a) 120 credit units for UME candidates accumulated in the four (4) academic sessions.
   b) 90 credit units for Direct Entry candidates
4. Candidates must
   a) Fulfill the SIWES requirements
   b) Present and defend a project research work
   c) Pass all stipulated General Studies (GST) Courses
   d) Participate and pass all ESP and Community Service Programme (CSP) Courses.

COURSES AND COURSE DESCRIPTIONS
100 LEVEL

<table>
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<tr>
<th>CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT UNIT</th>
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<tbody>
<tr>
<td></td>
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<td>1ST SEMESTER</td>
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<tr>
<td>MTH 101</td>
<td>General mathematics I</td>
<td>3</td>
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<tr>
<td>MTH 102</td>
<td>General Mathematics II</td>
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<tr>
<td>PHY 111</td>
<td>General PHY I (Mechanics and Properties of Matter)</td>
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<tr>
<td>PHY 112</td>
<td>General PHY II (Fluid Mechanics / Elasticity)</td>
<td>2</td>
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<tr>
<td>PHY 113</td>
<td>Thermal Physics</td>
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<tr>
<td>PHY 100</td>
<td>Practical Physics</td>
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<tr>
<td>PHY 121</td>
<td>Electromagnetism I</td>
<td>2</td>
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<tr>
<td>PHY 122</td>
<td>Modern Physics</td>
<td>2</td>
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<tr>
<td>PHY 123</td>
<td>Waves, Vibrations and Optics</td>
<td>2</td>
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<tr>
<td>CHM 101</td>
<td>General CHM I</td>
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<tr>
<td>CHM 102</td>
<td>General CHM II</td>
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<tr>
<td>CHM 107/108</td>
<td>General CHM LAB I &amp; II</td>
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<td>CODE</td>
<td>COURSE TITLE</td>
<td>CREDIT UNIT</td>
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<tr>
<td>CSC 101/102</td>
<td>Introduction to computer science</td>
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<tr>
<td>GST 111</td>
<td>Communication in English I</td>
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<tr>
<td>GST 112</td>
<td>Logic, Philosophy Human Existence</td>
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<tr>
<td>GST 113</td>
<td>Nigerian People and Culture</td>
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<tr>
<td>GST 121</td>
<td>Use of Library, Study Skills &amp; ICT</td>
<td>2</td>
</tr>
<tr>
<td>GST 122</td>
<td>Communication in English II</td>
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<tr>
<td>GST 123</td>
<td>Communication in French</td>
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<tr>
<td>BIO 101</td>
<td>General Biology I</td>
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<tr>
<td>BIO 102</td>
<td>General Biology II</td>
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<td>BIO 107/108</td>
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**200 LEVEL**

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<th>2ND SEMESTER</th>
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<tbody>
<tr>
<td>PHY 201</td>
<td>Elementary Modern Physics</td>
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<tr>
<td>PHY 202</td>
<td>Electric Circuits and Electronics</td>
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<tr>
<td>PHY 204</td>
<td>Waves and Optics II</td>
<td>3</td>
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<td>PHY 205</td>
<td>Thermal Physics II</td>
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<td>PHY 206</td>
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<td>PHY 207/208</td>
<td>Physics Lab I &amp; II</td>
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<td>STAT 203</td>
<td>Statistics for Physical Sciences</td>
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<td>MTH 201</td>
<td>Mathematical Methods I</td>
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<tr>
<td>PHY 209</td>
<td>Introduction to Space Science</td>
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<tr>
<td>PHY 210</td>
<td>Physics of the Solid Earth</td>
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<tr>
<td>PHY 215</td>
<td>Atomic And Nuclear Physics I</td>
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<tr>
<td>MTH 202</td>
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<td>Peace and Conflict Resolution</td>
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<td>EPS 223</td>
<td>Introduction to Entrepreneurial Skill I</td>
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<tr>
<td>*PHY 301</td>
<td>Analytical Mechanics I</td>
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485
### 300 LEVEL

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<td>PHY 303</td>
<td>Electromagnetism</td>
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<td>PHY 305</td>
<td>Quantum Physics</td>
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<td>PHY 306</td>
<td>Statistical Thermal Physics</td>
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<td>PHY 307/308</td>
<td>Expt. Physics II</td>
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<td>PHY 314</td>
<td>Solid State Physics</td>
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<tr>
<td>PHY 315</td>
<td>Electronics I</td>
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<tr>
<td>ESP 311</td>
<td>Introduction to entrepreneurial skill</td>
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<tr>
<td>PHY 321</td>
<td>Industrial Training (IT)</td>
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<th>2&lt;sup&gt;ND&lt;/sup&gt; SEMESTER</th>
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<tr>
<td>PHY 401/102</td>
<td>Quantum Mechanics I &amp; II</td>
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<tr>
<td>PHY 403/404</td>
<td>Mathematical Method in Physics</td>
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<td>PHY 407</td>
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<td>PHY 422</td>
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<td>PHY 424</td>
<td>Atomic and Molecular Spectroscopy</td>
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<td>PHY 455</td>
<td>Supervised Independent Research</td>
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<td>*PHY 423</td>
<td>Condensed Matter Physics</td>
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<tr>
<td>PHY 309</td>
<td>Energy and Environment</td>
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<td>EPS 316</td>
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<td><strong>18</strong></td>
<td><strong>11</strong></td>
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**Elective:** Any Nine (9) Units from the Following Areas

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<th>2&lt;sup&gt;ND&lt;/sup&gt;</th>
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<tr>
<td>PHY 411/112</td>
<td>Nuclear and Particle Physics I &amp; II</td>
<td>3</td>
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<tr>
<td>PHY 414</td>
<td>Industrial Geophysics</td>
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<td>PHY 416</td>
<td>Medical Nuclear Physics</td>
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<td>PHY 421</td>
<td>Biophysics</td>
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<tr>
<td>PHY 417</td>
<td>Astronomy</td>
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<td></td>
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<td><strong>38</strong></td>
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</table>

**Course Description**

**PHY 100: General Physics Laboratory**

(1 UNIT)

This introductory course emphasizes measurements, the treatment of measurement errors, and graphical analysis. A variety of experimental techniques will be employed. The experiments include studies of Meters, The Oscilloscope, Mechanical Systems, Electrical and Mechanical Resonant Systems, Light, Heat, Viscosity, etc.

**PHY 111: (General Physics I) Mechanics and Properties of Matter**

(2 UNITS)

Elements of Statistics, Vectors and Scalars, Simple Vector Algebra, Linear Motion, Laws of Motion, Kepler’s Law, Free Fall, Projectiles, Escape Velocity, Satellites, Weightlessness.

Simple Harmonic Motion, Motion of Rigid Bodies, Moments of Torque, Moment of Inertia, Work, Energy Relations.

**PHY 112: (General Physics II) Including Fluid Dynamics / Elasticity of Bodies**

(2 UNITS)


**PHY 113: (General Physics III) Thermal Physics**

(2 UNITS)

Heat and Temperature,


**PHY 121: Electromagnetism**

(2 UNITS)

Electrostatics, Charge, Electric Field Strength, Electric Flux, Inverse Square Law, Coulombs Law of Force, Gauss’ Law, Simple Applicators of Electric Fields and
Potentials, Potential Difference Fields Due to Simple Charge Distributions, Superposition Principle, Energy Fields.

Capacitance, Combination of Capacitance, Dielectrics, Polarization, Energy Stored in Capacitor, Charging and Discharging of Capacitors (Time Constants in R.C. Circuits).

Electric Dipoles, Electric Field and Potential due to Dipoles, Dipoles in Electric Fields Work Due to Dipoles, Steady Current, Simple D.C. Circuits, Electromotive Force, Ohm’s Law, Resistance, Resistivity, Conductance, Conductivity, Current Density, Daft Velocity, Electron Mobility, Relaxation Time Combination of Resistances, Combination of Cells.


**PHY 122: Modern Physics**  
(2 UNITS)

Atomic Nature of Matter, Discovery of the Electron Quantization of Electricity, (Millikan’s Experiment) Thompson’s Cathode Rays and Determination of the Specific Charge (\(e/m\)), Structure of an Atom, Atomic Models.

Thompson’s Model: Rutherford Model,


The Nucleus – Structure of the Nucleus, Size and BINDING of the Nucleus, BINDING Fraction, Packing Fraction of the Nucleus.


Planck’s Quantum Theory, de – Brag lies Hypothesis Wave – Particle Duality.


**PHY 123: Waves, Vibrations and Optics**  
(2 UNITS)

Waves – Types of Waves  

Light – Wave Theory of Light (Huygens Principle) (Reflection, Refraction, Interference, Diffraction, Polarization). Rectilinear Propagation of Light, Reflection of Light at Plane Surface, Refraction of Light, Total Internal Reflection (Application), Velocity, Frequency, Wavelength of Light (in Different Media), Mirrors, Spherical Mirrors, Image Formation by Mirrors and Application.

Lenses – Lens Combination, Optical Instruments, Doppler Effect, Echoes, Sound Ranging, Ultrasonic, Production and Application, Ultrasonic Imaging.

**PHY 201: General Physics V (Elementary Modern Physics)**  
(3 UNITS)

Pre – requisite PHY 122

PHY 202: Electric Circuits and Electronics  
Pre – requisite PHY 121  

PHY 204: General Physics IV – Waves and Optics  
Pre – requisite PHY 111 and PHY 112  

PHY 205: Thermal Physics  
Pre – requisite PHY 111 and PHY 113  

PHY 207/208: Experimental Physics I & II  
Pre – requisite PHY 107/108  
The Laboratory course consists of a group of Experiments drawn from diverse areas of Physics (Optics, Electromagnetism, Mechanics, and Modern Physics etc.). It is accompanied by Seminar Studies of Standard Experimental Technique and Analysis of famous and challenging experiments.

PHY 209: Introduction to Space Science  
Introduction to Astronomy and Astrophysics, Satellite Communication, Introduction to Atmospheric Science, Space Environment, Space Craft Systems and Dynamics,
Aero/Astrodynamic Engineering, Rocket Engineering, Cosmology, Origin of Universe and Life, Space Law and Business Development.

**PHY 210: Physics for Solid Earth** (3 UNITS)
Origin, Shape, Structure and Major Divisions of the Earth, The Earth Main Magnetic Field and Its Distribution.
Electrical Theory of the Earth Core and Origin of the Magnetic Field Seafloor Spreading. Continental Drift and Plate Tectonics.

**PHY 215: Atomic and Nuclear Physics I** (3 UNITS)
Types of Nuclei – Isotopes Isotones Isomers
Nuclear Models – Liquid Drop Model and the Shell Model
Radioactivity – Radioactive Series
Radioactivity Decay Law – Decay Constant, Half – Life Average Life, Activity (Decay Rate), Radioactive Dating, Radiation Dosimeter
Artificial Radioactivity, Radioisotopes and Applications
Particle Disintegration Energies, Particle Ranges.

**PHY 301: Analytical Mechanics I** (3 UNITS)
Pre – requisite MTH 201, MTH 204

**PHY 302: Analytical Mechanics II** (3 UNITS)
Pre – requisite PHY 301

**PHY 303: Electromagnetism** (3 UNITS)
Pre – requisite PHY 201 and MTH 204
Electrostatics and Magnetic Statics, Laplace’s Equation and Boundary Value Problems, Multiple Expansions, Dielectric and Magnetic Material, Faraday’s Law, A.C. Circuits, Maxwell’s Equation Lorentz Covariance and Special Relativity.

**PHY 304: Electromagnetic Waves and Optics** (3 UNITS)
Pre – requisite PHY 303
Reflection and Refraction, Transmission Lines Girds and Resonant Cavities, Radiation, Geometrical Optics, Interference of Wave, Diffraction

**PHY 305: Quantum Physics**
Pre – requisite PHY 201

**PHY 306: Statistical and Thermal Physics**
Pre – requisite PHY 113 and PHY 305
Basic Concept of Statistical Mechanics, Microscopic Basis of Thermodynamics and Application to Macroscopic Systems, Condensed State, Phase Transformations, Quantum Distributions, Elementary Kinetic Theory of Transport Processes, Fluctuation Phenomena, Applications.

**PHY 307/308: Experimental Physics II**
Pre – requisite PHY 207/208
A Year Series of Mini Courses on Important Experimental Techniques. Topics Covered Include Electronic, Optics, Electricity, Atomic, Molecular Nuclear and Low Temperature Physics, Statistics and Data Handling and Scientific Writing.

**PHY 314: Solid State Physics**
Pre – requisite PHY 305
Crystal Structure and Crystal Binding, Elastic Properties, Lattice Vibrations, Superconductivity.

**PHY 321: Industrial Training (IT)**
Pre – requisite PHY 305
Students will be attached to Industry and Physics related Institutions for 12 Weeks e.g. Geophysics/Electronics, Research Institutions, Information Communication and Technology (ICT) and Radio/TV Institutions.

**PHY 401: Quantum Mechanics I**
Pre – requisite PHY 305 and MTH 202

**PHY 402: Quantum Mechanics II**
Pre – requisite PHY 401 and MTH 202
Time-Independent and Time-Dependent Perturbation Theory, Scattering Theory, Elastic Potential Scattering, Green’s Function and Partial Wave Methods, Selected Phenomena from Each of Atom Physics, Molecular Physics, and Solid – State Physics and Nuclear Physics are Described and then Interpreted Using Quantum Mechanics Models.

**PHY 403/404: Mathematical Methods in Physics**  
*6 UNITS*

*Pre – requisite MTH 202, MTH 204 and MTH 305*


**PHY 407: Computational Physics**  
*3 UNITS*

*Pre – requisite MTH 222*


**PHY 411: Nuclear and Particle Physics I**  
*3 UNITS*


**PHY 423: Condensed Matter Physics**  
*3 UNITS*


**PHY 455: Supervised Independent Research (Research Project)**  
*6 UNITS*

An independent research project selected by the student but supervised by a staff, will be carried out. Each student will produce a written report of the project and will be prepared to present a seminar on the project in the middle of the second semester to a departmental committee. The project report will be submitted and defended by the student at the end of the second semester.
The Academic Planning Unit is central to the academic development of a University because it is responsible for the planning and quality assurance functions of the University. The functions of the Academic Planning may be grouped into the following four categories.

A) PLANNING
The Academic Planning Unit is charged with the following planning duties:

- Preparation of University annual recurrent budget in collaboration with the Bursary and the Budget Unit and with the co-operation of the other Departments and Units;
- Projection of student enrolment figures and corresponding staff strength;
- Performance analysis of the University’s budget;
- Collection and analysis of information for planning purposes;
- Computation of full-time equivalents (FTE) for all programmes;
- Initiation and co-ordination of review of the University curricula in line with the exact NUC policy and trends in the academic world;
- Ensuring that the University operates within its strategic plan and co-ordinated development; and
- Working with colleges and departments to prepare, review and monitor their academic plans and identify areas for potential development.
- Keep up to date administrative records on admission, students enrolment, graduate output, staffing, and finance at all times. This assignment is carried out in collaboration with Registry and the other relevant Units and Departments/Colleges of the University.
- Ensure that Self Study Forms for all academic programmes due for accreditation are completed correctly and all the necessary information required are provided.
- Ensure that only programmes with National University Commissions approved Benchmark Minimum Academic Standards (BMAS) are allowed to run in the University.
- Keep themselves abreast of the BMAS and raise issues for review as appropriate.
- Ensure that the BMAS for each discipline is made available to all faculties, departments and widely circulated among academic staff in the University for Reference Purposes.
- Insist that University follow due process when applying for the establishment of new Units and Academic units and programmes in their Universities and ensure that approval is given by National Universities Commission before the commencement of any programme.
- Responsible for the completion and submission of application forms for the establishment of new units and academic programmes and splitting of programmes and units at all levels.

B) QUALITY ASSURANCE
The Academic Planning Unit is expected to promote quality in the performance of the core business of teaching, learning and research in the University through periodic evaluation of its academic activities as follows:

- Co-ordinating the preparation of Academic Brief and Strategic Plan for the University;
- Guiding each Unit of the University on the implementation of the Academic Brief;
- Co-ordinating preparatory activities of the University for accreditation by NUC and other professional bodies;
- Periodic analysis of relevant data for performance evaluation of academic programmes of the University and for advising the University management as may be required;
- Analysis of data on staff and student enrolment;
- Promoting strong international linkages with foreign Universities;
- Ensuring compliance with national and institutional guidelines such as admission quotas; as contained in the NUC documents.
- Providing an office for interpretation of academic policies and provisions;
- Conducting feasibility studies to support cases for establishment of new academic programmes; and
- Oversight of and guidance on the process for considering specific proposals for new or reviewed awards ensuring that these reflect overarching faculty plans, the University’s strategic priorities and market intelligence.

C) PUBLICATIONS AND STATISTICS
The University Academic Planning Unit is responsible for the collection and collation of information for intra-institutional and national planning. Towards this end, it is responsible for:

- Maintaining a database of statistics on students and staff for use in planning, and other requirements;
- Collection, analysis and interpretation of data from relevant University Departments and Units;
- Providing periodic statistics to the Federal Ministry of Education, Nigerian University Commission, National Manpower Board, Federal Bureau of Statistics, Private sector organizations, NGS’s and individual researchers on demand;
- Provision of information to the University Management on various University operations for internal planning by the University;
- Periodic update and analyzing data from relevant University Departments and Units for internal evaluation of institutional performance;
- Annually updating and analyzing data on the University;
- Guiding preparation of the University budget and subsequently, internal resource allocation within the University;
- Analysis and interpretation of University annual statistical trends;
- Publication of University records, statistics and research reports; and
• Documenting and storing information on academic programmes of the University.

D) LIAISON
The Unit liaises between the University, Regulatory bodies like the National Universities Commission, and other Professional regulatory bodies. It seeks clarification from the NUC and other bodies on academic matters and forward same to the appropriate sections of the University.

Staff List

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name of Staff</th>
<th>Designation</th>
<th>Qualification and Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dr. Angela O. Idonije</td>
<td>Deputy Registrar</td>
<td>B.Sc. 1987, PGDE 1993, M.Ed. 2006, Ph.D 2015</td>
</tr>
<tr>
<td>2.</td>
<td>Miss Jennifer Ijesurobo</td>
<td>Admin. Officer II</td>
<td>B.Sc. 2007</td>
</tr>
<tr>
<td>3.</td>
<td>Adama Victor</td>
<td>Corps Member</td>
<td>B.Sc. 2014</td>
</tr>
</tbody>
</table>
HUMAN HELP SERVICES UNIT
CREATING AWARENESS IN VARIOUS COUNSELLING SETTINGS AND SERVICES

Human Help Service is a field of endeavour that helps students and staff cope with their internal and external problems in psychological and behavioral patterns through counselling services.

STAFF
1. The Desk Officer of the Human Help Services Unit is Festus Enosakhare Osaseri. Festus Osaseri is a both British and an American trained Educationalist and Theologian. He has been in the church setting and Education institutions as a pastor, counsellor, lecturer and teacher for 46 years. An ordained Baptist Minister in 1976, Festus Osaseri has served at central Baptist church, Carson, California, U.S. A. and Calvary Baptist church, Cardiff, U.K. – as a pastor and a counsellor amongst various nationals. This is his seventh year in Igbinedion University, Okada.

2. Oluwo, Zainab Olaitan is a Corper serving in the Unit. She holds the Bachelor of Science degree in Social Work and Community Development. She helps in interacting with the female students, inviting those that need attention for counselling and physical therapy.

3. Aigheiyisi, Osayomore Rita is the Secretary/Typist taking care of the Unit with respect to correspondences and communication with students.

OBJECTIVES AND AIMS OF THE UNIT
The overall aim of counselling is to provide an opportunity for the client to work towards living in a more satisfying and resourceful way. The term ‘counselling’ include the work with individuals, pairs or groups of people who are often but not always, referred to as ‘client’. The object of particular relationships will vary according to client’s needs. Counselling may be concerned with developmental issues, addressing and resolving specific problems, making decision, coping with cries, developing personal insights and knowledge, working through feelings of the inner conflict or improving relationship with others. The counsellor’s role is to facilitate the client’s work in the ways that respect the client’s values, personal resources and capacity for self determination.

VISION STATEMENT
- To be a leading center for redemption of positive character and behaviour change among University students and staff.
- To restore the whole personality and dignity of University students and staff.

MISSION STATEMENT
- To pursue the worthiness of behaviour change which is one of the foundational principles of awarding degree in higher institutions worldwide.
❖ To enhance human development and relationship through counseling research information that promotes discipline.

❖ Endeavour to help students and staff cope with their internal and external problems in psychological and behavioural patterns.

PROBLEM
Some of the student’s problems targeted for solution at the Unit include: Academic problems-effective study habits/learning; Career problems and information; Marriage and family, respect for elders/teachers; Drug addiction, sexuality and HIV/AIDS problem; Crisis and emergency problem; Information and orientation services; Education and information, on the job training; Safety prevention and health information; Social-personal or human development; Continuous assessment, cumulative records; Student employments; Extra curriculum activities; Treatment of drug use, abuse and addiction; Basic intervention - through hot line and emergency clinics, or missing person and suicide prevention; Birth control, pregnancy, abortion, STD, human sexuality; Part time work graduate school admission, legal aid, cultism, HIV and SARS (Severe Acute Respiratory Syndrome); Career-services-job seeking; Personal and academic problems; Domestic and personal violence (child bearing, family planning, parenting, sex education and therapy), Rape, sexual assault, sex deviants, school violations; Self help group-divorce anonymous, alcoholic anonymous, parents with partners, the compassionate friends; Substance abuse (alcohol, nicotine drugs, smoking); Cultism - stoppage of membership.

VENUE AND SERVICE HOURS
The Human Help Services Unit is situated at the PCF Students’ Affairs Block of the Igbinedion University Human Help Services Department. Office hours are from 9.00am to 4.00pm, Monday to Friday; Hostels’ Visitation/Counselling between 5.00pm and 8.00pm.

Crisis services can be treated at any time through telephones – 08076702689; 08120782197; 08114718508; 07062169053.
Services are rendered individually and as group.
Privacy and confidentiality are guaranteed.
### DIVISION OF GENERAL STUDIES

#### NEW MINIMUM BENCHMARK FOR GENERAL STUDIES PROGRAMME

<table>
<thead>
<tr>
<th>S/ N</th>
<th>COURSE CODE</th>
<th>COURSE DESCRIPTION</th>
<th>UNITS</th>
<th>DEPT. SUPPLYING TEACHING STAFF</th>
</tr>
</thead>
</table>
| 1.   | **1st SEMESTER, 100L**  
GST 111  
Communication in English I | Effective communication and writing in English, Language skills, writing of essay answers, comprehension, sentence construction, Outlines and paragraphs, collection and organization of materials and logical presentation, Punctuation. | 2 | Department of English |
| 2.   | **GST 112**  
Logic, Philosophy and Human Existence | A brief survey of the main branches of philosophy. Symbolic Logic, Special symbols in symbolic Logic-conjunction, negation, affirmation disjunction, | 2 | Department of Sociology |
| 3.   | **GST 113**  
Nigerian Peoples and Culture | Study of Nigerian history, culture and arts in pre-colonial times, Nigerian’s perception of his world, culture areas of Nigeria and their characteristics, Evolution of Nigeria as a political unit, Indigene/settler phenomenon, Concepts of trade, economic self-reliance, social justice, Individual and national development, Norms and values, Negative attitudes and conducts (cultism and related vices), Re-orientation of moral environmental problems. | 2 | Department of Sociology |
| 4.   | **2ND SEMESTER, 100L**  
GST 121  
Use of Library, Study Skills and ICT | Brief history of libraries, Library and education, University libraries and other types of libraries, study skills (reference services). Types of libraries materials, using library resources including e-learning, e-materials: etc, Understanding library catalogues (card, OPAC etc) and classification, copyright and its implications, Database resources, Bibliographic citations and referencing. Development of modern ICT, hardware technology software technology, Input devices, storage devices, Output devices, communication and internet service, word processing skills (typing, | 2 | University Library Depts. of Computer Science, Computer Engineering and ICT Unit. |
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| 5. | **GST 122**  
Communication in English II | Logical presentation of papers, phonetics, Instruction on lexis, art of public speaking and oral communication, figures of speech, précis, Report writing. |
| 6. | **GST 123**  
Communication in French | Introduction to French, Alphabets and numeric for effective communication (written and oral), Conjugation and simple sentence construction based on communication approach, sentence construction, comprehension and reading of simple texts. |
| 7. | **1ST SEMESTER, 200L**  
GST 211  
History and Philosophy of Science | Man – his origin and nature, Man and his cosmic environment, scientific methodology, Science and technology in the society and service of man, Renewable and non-renewable resources – man and his energy resources, Environmental effects of chemical plastics, Textiles, wastes and other material, Chemical and radiochemical hazards. Introduction to the various areas of science and technology. Elements of environmental studies. |
| 8. | **2ND SEMESTER, 200L**  
GST 221  
Peace Studies and Conflict Resolution | Basic concepts in peace studies and conflict resolution, peace as vehicle of unity and development, conflict issues, Types of conflict, e.g. Ethnic/religious/political/economic conflicts, Root causes of conflicts and violence in Africa, Indigene/settler phenomenon, Peace – building, Management of conflict and security. Element of peace studies and conflict resolution, Developing a culture of peace, peace mediation and peace keeping Alternative Dispute Resolution (ADR). Dialogue/arbitration in conflict resolution, Role of international organizations in conflict resolution, e.g. ECOWAS, African Union, United Nation, etc. |

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500
COMMUNITY SERVICE PROGRAMME

1.0 PHILOSOPHY
In line with one of its functions, Igbinedion University, Okada aspires to develop flexible programmes that are responsive to local/community needs and beyond. This could be in the form of social work, environment tending or mentoring.

2.0 VISION
To become a University with out-flowing excellence in service through practical and physical activities in response to communal and localized human needs, and to graduate students imbued with the spirit of community service and development.

3.0 MISSION
To take what Igbinedion University has to the communities in order to solve the diversity of challenges in Okada and its environs using students and staff, and to register a significant presence in the host community.

4.0 OBJECTIVES
I. To regularly carry out a survey of Okada and its environs, in order to identify areas of need with a view to contributing to their development.

II. To provide such lectures and instructions for persons not being members of the University, but residing in the Okada environs.

III. To offer wide opportunities for extra-mural education and community service to both staff and students of Igbinedion University, Okada.

5.0 ELIGIBILITY, CURRICULUM AND DURATION OF COMMUNITY SERVICE PROGRAMME
All second year students of the University are eligible and required to register for the programme which shall run for two Semesters beginning from the First Semester of second year:

<table>
<thead>
<tr>
<th>Year II – First Semester</th>
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<tbody>
<tr>
<td><strong>Course No.</strong></td>
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<tr>
<td>IUO/2CS.1</td>
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<td>S/N</td>
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</table>
8. The social worker and community service 
9. Community service and national development

Year II – 2nd Semester: IUO/2CS.2 Community Service Project

6.0 COMMUNITY SERVICE PROJECTS
The identification of possible projects that students in the respective departments may engage in should be at the discretion of each department/discipline.
However, possible projects could include:
- Farming
- Road building and maintenance
- Landscaping
- Construction of concrete footpaths, seats for recreation
- Carrying out health outreach programmes on such issues as basic hygiene, nutrition, immunization, HIV/AIDS pandemic, screening for hypertension and breast cancer, etc.
- Planting of trees to serve as shades and to prevent erosion
- Construction of fountains in public places
- Lawn mowing, clearing drainages and disposing of garbage
- Play productions on the dangers and implications of such anti-social phenomena as cultism, hostage taking, vandalization of public utilities, etc.

7.0 MODALITIES/ADMINISTRATION OF THE PROGRAMME
I. SERVICE PROJECTS
- The proposed projects should emanate compulsorily from each department to the Dean of the College.
- The College should screen or merge these for one interdepartmental project from the College.
- The College proposals should be sent to the University Committee for harmonization and forwarding to appropriate organs of the University for approval.
- It is suggested that for now, there should be only one project per College/one project for all years II students across the Colleges.

II. ORGANIZATION
Each College should appoint a Community Service Programme Co-ordinator who is responsible to the Dean and through him to the Chairman, Committee on Community Service.
- The Chairman reports to appropriate organ of the University and/or the Vice Chancellor.
III. SERVICE TIMETABLE (Designation of Days/Hours of the Week for Engagement)
Every Wednesday afternoon (1.00 p.m. – 5.00 p.m.) is reserved and made free for community service.

8.0 GENERAL REGULATIONS
I. For the purpose of uniform grading, the following, among others, are defined:
   ✷ What constitutes a standard workload.
   ✷ What is the indicator for quality of service/job.

II. A comprehensive roster system is in place for recording individual student performance.

III. For accountability, all financial transactions in the course of carrying out the project(s) should be communicated to the Central Community Service Programme. Appropriate sanctions are meted out to financial defaulters.

9.0 EXAMINATION REGULATIONS
I. The Community Service course is both examined under conventional written examinations and through actual participation in the practical projects. Each student participant is therefore required to participate actively in the course right from the beginning of the programme.

II. Evaluation is not a one-off event but a continuous process which is done on weekly basis.

III. A written report is be submitted at the end of the Second Semester of the programme in June.

   The student’s report which should be properly articulated at the end of the execution of assigned project(s), should emphasize, inter alia
   ✷ The nature and importance of the project carried out;
   ✷ Problem(s) encountered;
   ✷ Suggested solution(s) to such problem(s); and
   ✷ Recommendation(s) towards the modification of the University Community Service programme, if any.

IV. However, existing University examination regulations are strictly applied where applicable.

V. Each student is mandatorily required to participate and complete the service, as it is a basic requirement for graduation.
9.1 Scoring and Grading
The following grading system shall be used in assessing students registered for the Community Service Programme:

**Practical Work**

- a. Attitude to work - 10%
- b. Punctuality - 5%
- c. Diligence - 5%
- d. Creativity - 10%
- e. Quality of work - 20%

**Total** - 70%

- f. Student Written Report - 30%

**Grand Total** = 100%

9.2 Certificate of Participation
A certificate of participation is awarded to each successful participant.
CENTER FOR ENTREPRENEURIAL STUDIES

Entrepreneurial Studies Committee
1. Prof. (Mrs.) Tonye G. Okorie Deputy Vice Chancellor Chairperson
2. Dr. N. A. Liman HOD, Bus Admin. Director CES
3. Dr. S. Adeniran HOD, Accounting Member
4. Dr. (Mrs.) Okafor-Elenwo HOD, Biological Sc. Member
5. Mr. C. Nwosu HOD, Mass Comm. Member
6. Mrs. Dolly Omorogie College Officer, NAS Secretary

Academic Staff List EPS223: Introduction to Entrepreneurial Studies
(2 credits) 2nd semester course

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>RANK</th>
<th>QUALIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nuruddeen A. Liman</td>
<td>Director, EPS</td>
<td>B. Sc., MBA., PhD.</td>
</tr>
<tr>
<td>2</td>
<td>Daniel U. Ibe</td>
<td>Senior Lecturer</td>
<td>LLB., LLM., PhD.</td>
</tr>
<tr>
<td>3</td>
<td>David Umobuarie</td>
<td>Lecturer 11</td>
<td>B. Sc., MBA.</td>
</tr>
<tr>
<td>4</td>
<td>Mathew Egbochie</td>
<td>Lecturer 11</td>
<td>B. Sc., M. Sc.</td>
</tr>
</tbody>
</table>

IUO’s Senate has approved the establishment of a Center for Entrepreneurial Studies (CES), equipped with:

1) ADMINISTRATIVE WING:
The administration wing is where the activities of the Center are coordinated. The wing consists of:
   a) Director’s Office; and
   b) Administration Office.

2) AUDITORIUM/HALL WING:
The auditorium wing conducts group lectures, exhibitions, demonstrations and syndicate classes. It is also equipped with state-of-the-arts training facilities, including:
   a) Plasma colored TVs;
   b) CD and DVD Players;
   c) Projectors for power-point presentation; and
   d) Internet connectivity.

3) EPS SPECIALIST/REFERENCE LIBRARY
The Senate has also approved a specialized/reference library for the Center. The library stocks books, journals, magazines, DVDs, CDs, Videos, Cassettes, etc on Entrepreneurial Studies.
Objectives of the CES Center
The key objective of the Center is to train students on skills acquisition for livelihood, also:

a) Train students as Entrepreneurs, who would employ people from the labor market, rather than be patrons of the elusive labor market themselves.

b) Train students imbue the spirit of service, progress and development—for themselves and the society.

c) Inculcate in the students, the values of self and social survival; ensuring that the nation is not disadvantaged in context of global economics.

d) Engage in research for knowledge and its applications, in the area of Entrepreneurial Studies.
# OFFICE OF THE VICE CHANCELLOR

## LIST OF STAFF

<table>
<thead>
<tr>
<th>S/N</th>
<th>Name</th>
<th>Designation</th>
<th>Qualification(s)</th>
</tr>
</thead>
</table>
| 1.  | Rev. Prof. Osaghae, E. Eghosa | Professor/Vice Chancellor        | *B.Sc., University of Ibadan; 1979  
* M.Sc., University of Ibadan; 1981  
* Ph.D., University of Ibadan; 1986 |
* PGD UNILAG, 1996  
* M.ED (HNAUB), Cotonu, 2005  
* Ph.D (IUO) 2015. |
* HND (Mass Comm.), 1994  
* NIPR, 2011  
* ISMN, 2011  
* PRINCE 2 Project Mgt (2011 APCON 2016) |
| 4.  | Eboh-Onokwe, Lucky        | Principal PRO                    | *Diploma, London Chamber of Commerce & Industry (LCCI), 1985;  
* DPA, Uniben, 1993  
* B(PA), Uniben, 1998  
* M(PA), Uniben, 2001 |
* PG.D, Uniben, 2003  
* MPA, Uniben, 2006 |
| 6.  | Ikyume, Chiahemba James   | Principal Internal Auditor       | *B.Sc (Accounting), BSU, 2003  
* NIM, 2006  
* ACA, 2011 |
| 7.  | Columbus Aibangbee        | Assist. Registrar/PA to VC – Admin | *B.A (History), Uniben, 2000 |
| 8.  | Ilawagbon O.              | Senior Confidential Secretary    | *OND (Sec. Admin.), Uniport, 2000  
* BPA, Uniben, 2012;  
* M.Sc (Pol.Sc./Pub. Admin.), IUO, 2014 |
* HND (Mass Comm.), 1994  
* NIPR, 2011 |
| 12. | Omorotionmwan, Monday     | Senior Craftsman/Artisan (Cameraman) | *SSCE, Midwest Sec. School, 1999 |
| 13. | Kumuyi Sunday             | Driver/Mechanic                  |                                    |
| 14. | Edu Thomas Ibuo           | Cook/Housekeeper                 |                                    |
| 15. | Akinola Oluwasegun        | Driver                           |                                    |
OFFICE OF THE DEPUTY VICE CHANCELLOR

LIST OF STAFF

Professor Charity Udokamma EMAVIWE - Professor/Deputy Vice Chancellor
1. LL.B (Hons), University of Ife (1984)
3. LL.M (Bendel State University (BENSU) (1989)

Charity EDOKPAYI - Principal Confidential Secretary II
Diploma, Staff Training Centre (1994)
Higher Diploma, Staff Training Centre (1996)
Certificate in Computer (1998)
B. A. (Hons), University of Benin (2014)
M. Sc. (Hons), Igbinedion University Okada (in view)

Mr. Okeowo Joshua ADEYEMO - Driver / Mechanic
Trade Test (2007)
## THE REGISTRY AND UNIVERSITY ADMINISTRATION

### LIST OF REGISTRY STAFF

<table>
<thead>
<tr>
<th>S/N</th>
<th>Names</th>
<th>Qualification</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Mr. Felix Olushola JEGEDE</td>
<td>B. A. Philosophy, UNICAL 1980; NIJ Cert. 1988</td>
<td>Senior Assistant Registrar (Personnel)</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Olugbenga JEGEDE</td>
<td>B.Sc Business Administration ABU 1998</td>
<td>Assistant Registrar (Admissions)</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Daniel O. IGBINEDION</td>
<td>B.Sc Accounting, IUO 2004</td>
<td>Admin Officer I (Alumni Relations)</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Oghomwen Austin OMOGIADE</td>
<td>B.Sc Public Administration AAU 2009; M.Sc. Political Science and Public Admin., IUO 2014</td>
<td>Admin Officer II (Senate)</td>
</tr>
<tr>
<td>8.</td>
<td>Mr. Kehinde Titilade ODOGIYON</td>
<td>B.Sc. Agric Extension, UNAB, 2011</td>
<td>Admin. Officer II (Academic Affairs)</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Samuel U. OKUNDAYE</td>
<td>Secondary Modern School Certificate, 1965 Certificate in Typewriting, 1973</td>
<td>Principal Confidential Secretary II (Registrar’s Office)</td>
</tr>
<tr>
<td>11.</td>
<td>Mrs. Eucharia A. ABOLARIN</td>
<td>NCE, NTI Kaduna 2006 Advanced Secretarial Duties, NABTEB 2009</td>
<td>Confidential Secretary II (Personnel)</td>
</tr>
<tr>
<td>14.</td>
<td>Mr. Charles EKHATOR</td>
<td>WASC 1985 &amp; 1986</td>
<td>Senior Clerical Officer (Personnel)</td>
</tr>
</tbody>
</table>
In Universities, world-wide the Registry Department serves as the hub of Administration. The Registrar, as the Chief Administrative Officer is responsible, for the day-to-day administrative work of the University under the guidance of the Vice Chancellor.

The Registry Department of Igbinedion University is made up of the following administrative units:

1) Office of the Registrar
2) Council and General Administration
3) Personnel and Establishment
4) Academic affairs.

Understandably, the immediate and primary interest of students would be the Academic Affairs Unit, made up of Senate, admissions, Examinations and Records and Colleges Liaison.

- Regulate and control all teaching, courses of study and determines the conditions for admission into the various degrees of the University.
- Prescribe the Rules and Regulations concerning academic matters.
- Prescribe the conditions under which persons may be admitted to the University as students or refuse admission.
- Regulates all University examination
- Regulate the use of academic dress
- Regulate and superintend the discipline of students of the University.

Igbinedion University Operates the Collegiate system and each College Administration is headed by a representative of the Registrar and he/she is designated as “College Officer”.

It is advisable and desirable that each student makes some serious effort to familiarize himself/herself with the rules and regulations that govern the respective aspects the University Community Life. It would be progress and pleasure if they are strictly adhered to and actions that impugn on the University’s integrity are avoided. For he who tears his garment of honour the mask of shame.

Knowing you all to be decent and disciplined young men and women, you would choose the path of honour and always would take your studies as the only central reason for being here. Remember that a man is not rewarded for having a brain, but for using it and knowledge is like a garden if it is not cultivated it cannot be harvested.

It is necessary to also point out that the parameters for the award of University degree are an adjudged good character and a proven quality of learning. The University does
not grant a degree if a student falls short in any of these. Therefore each student is urged to be careful in his/her activities in the course of study here, as regrets, like grand, children come much later.
<table>
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<tr>
<th>S/N</th>
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<th>DESIGNATION</th>
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<tbody>
<tr>
<td>1.</td>
<td>Edogiawerie M. Nosa</td>
<td>B.sc (Econs) M.Sc.(Accounting) FCTI, FCA</td>
<td>Bursar</td>
</tr>
<tr>
<td>2.</td>
<td>Mrs. V.U. Dawson</td>
<td>B.Sc Accounting CNA Post Graduate Dip. Accounting Digital Bridge Computer</td>
<td>Chief Accountant</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. M.A. Diai</td>
<td>B.Sc. Bus. Admin., MILR, MNIM, ACMA</td>
<td>Chief Executive Officer</td>
</tr>
<tr>
<td>5.</td>
<td>Mrs. V.U. Sule</td>
<td>CNA, MS.c Business Admin., BS.c Accounting</td>
<td>Principal Accountant</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Fadejin, Taiwo</td>
<td>HND (B&amp;F), MBA (Bus. Admin.) M.Sc. (Bus. Admin.) CNA</td>
<td>Principal Executive Officer</td>
</tr>
<tr>
<td>7.</td>
<td>Mrs. Toyin Omowaye</td>
<td>HND Acctg. PGD Acctg., MBA Finance</td>
<td>Senior Accountant</td>
</tr>
<tr>
<td>9.</td>
<td>Mr. Adunola, Oyeyemi Paul</td>
<td>HND (Accounting), MBA (Finance), PGD (Finance) ICAN (In View)</td>
<td>Senior Accountant</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Ogungbenle, S. Kayode</td>
<td>B.Sc., M.Sc., MBA, AAT ACA, ACTI</td>
<td>Senior Accountant</td>
</tr>
<tr>
<td>11.</td>
<td>Mr. Vincent Ogbeide</td>
<td>M.Sc(Information Technology), B.Sc (Computer Sci.)</td>
<td>Analyst/Programmer II</td>
</tr>
<tr>
<td>12.</td>
<td>Mrs. F.E. Phillips</td>
<td>B.Sc. (Bus. Admin.), Pitman London</td>
<td>Principal Conf. Sec. II</td>
</tr>
<tr>
<td>13.</td>
<td>Mrs. Erekpitan O. Dumka-Deede</td>
<td>B.Sc. (Economics), MS.c (Bus. Admin)</td>
<td>Senior Executive Officer (Accounts)</td>
</tr>
<tr>
<td>14.</td>
<td>Oseh Doris Onize</td>
<td>OND(Secretarial Admin.) HND (Secretarial Admin.)</td>
<td>Senior Conf. Secretary</td>
</tr>
<tr>
<td>15.</td>
<td>Mr. Ewemade, Goddy</td>
<td>OND (Accounting)</td>
<td>Executive Officer</td>
</tr>
<tr>
<td>16.</td>
<td>Mrs. Tessy O. Isibor</td>
<td>BS.C (Accounting)</td>
<td>Accountant II</td>
</tr>
<tr>
<td>17.</td>
<td>Mrs. Priscilla O. Jagbedia</td>
<td>BS.C (Accounting)</td>
<td>Accountant II</td>
</tr>
<tr>
<td>18.</td>
<td>Miss Rosemary I. Odeh</td>
<td>BS.C (Accounting)</td>
<td>Accountant II</td>
</tr>
<tr>
<td>19.</td>
<td>Mr. Osaretin Peter</td>
<td>HND (Bus. Admin), PGDM</td>
<td>Executive Officer</td>
</tr>
</tbody>
</table>
Egharevba (Management), Bs.c (Bus. Admin.)

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>20.</td>
<td>Mr. Otokiti, Francis</td>
<td>First School Leaving Certificate</td>
</tr>
<tr>
<td>21.</td>
<td>Miss Ezegede Rose</td>
<td>First School Leaving Certificate</td>
</tr>
</tbody>
</table>

INTRODUCTION

The Bursary department is the financial nerve centre of the University and is charged with the responsibility of handling all financial transactions of the University.

FEE STRUCTURE

The fees payable in the University are divided into two:
(a) School fees; and
(b) Sundry Charges

(A) SCHOOL FEES
School fees are of three categories, namely

Category A
Basic Medicine, Pharmacy, Law and Engineering courses – Tuition N610,000, Accommodation, N100,000, Other charges N110,000.
Total N820,000.

Category B
Clinical Medicine (200 Level and Above) – N3000,000.00

Category C
Accounting, Banking and Finance, Computer Science and Nursing
Tuition – N550,000, Accommodation – N100,000, Other Charges N110,000
Total N760,000

Category D
Other Programmes not indicated in (i & iii) are in this categories. Tuition N430,000, Accommodation N100,000 Other charges N110,000
Total N640,000=

PAYMENT OF SCHOOL FEES
The above fees are paid through either Zenith Bank, Access Bank or First Bank using the e-tranzact platform. The University official receipts will be issued to every student on submission of e-tranzact slip to the College Finance Officer in the Bursary department. These receipts are to be handled with care as you may be required to produce them as occasion may demand.
(B) **SUNDARY CHARGES**

1. **Registration Fee** – ₦10,000.
2. **Science Bench Mark Support Fee** – ₦5,000 (For 100 level Science Students only).
3. **IUIIS (Engineering Students only)** – ₦10,000.
4. **Late Registration Fee** of ₦10,000 – paid by students who fail to register within record time.
5. **Caution Fee** – ₦10,000
6. **Development levy** - N10,000
7. **Municipal Fee** – N30,000 (100 level) N40,000 (200 level and above)
8. **PCF (Parent Consultative Forum Fee)** – ₦20,000.
9. **Pharmacy Lab Support Fee** (200 Level and above N10,000
10. **Book Deposit** – N15,000

**PAYMENT OF SUNDARY CHARGES**

(a) Payment for items (1) – (7) above is to be made at ABC Microfinance Bank Ltd, Okada Account with Zenith Bank and Access Bank as follows:

1) Zenith Bank Account Name: ABC Microfinance bank Account No.: 1013139941
2) Access Bank Account Name: ABC Microfinance Bank Account No.: 0040486613 while the PCF fee is to be paid into Zenith Bank Plc A/C. No. 6114401984.

(b) **Payment of item 8**

Zenith Bank Account Name: ABC Microfinance bank Account No.: 1013139941.

(c) **Payment of 9**

Zenith Bank Account Name: Dept. of Pharmacology bank Account No.: 1014506364.

(d) **Payment of item 10**

Zenith Bank Account Name: ABC Microfinance bank Account No.: 1013139941

There are also departmental dues to be paid at the level of the department or College.
PRE-CONDITION FOR WRITING EXAMINATIONS
Students are expected to pay at least 50% of School fees and 100% of Sundry Charges before they are allowed to sit for 1st Semester Examinations. All fees must be paid before Students can sit for 2nd Semester Examinations.

OFFENCES AND PENALTIES
(1) Students who fail to present their e-tranzact slip to the Bursary department within a maximum period of two weeks for official receipt will pay a fine of ₦10,000.
(2) Forging of University official receipt or e-tranzact slip attract outright expulsion from the University.

NOTE: The above fees (School fees and Sundry Charges) can be changed by the University at any time and the student duly informed.

Edogiawerie M. Nosa
Bursar
UNIVERSITY LIBRARY

Information on Library Resources

Introduction
Igbinedion University, Okada, runs a Collegiate System that operates from 3 (three) campuses. The campuses are: The Main Campus; The College of Health Sciences Campus; and the Crown Estate. In line with this structure, the University Library has also adopted the collegiate system in administering the library. The Colleges are as follows:
College of Arts & Social Sciences (CASS)
College of Business & Management Sciences (CBMS)
College of Engineering
College of Health Sciences
College of Law
College of Natural & Applied Sciences
College of Pharmacy

Each of the Colleges has a vibrant, well stocked Library. In addition to the College Libraries, there is also a Department of Nursing Library as well as the new Alumni Centre Library at the Crown Estate which acts as a reading room as at present.

In all of this, it is necessary to observe that the Main Library acts as the administrative and technical headquarters of the University Library system. It is the seat of the University Librarian from where he coordinates all of the other libraries in the system. All materials are acquired and processed centrally in the Main Library and thereafter they are distributed to the other satellite libraries according to the nature and type of materials.

Functions of the Library
In the law establishing the Igbinedion University, Okada, objects (objectives) of the university are stated as follows:
- To train qualified personnel imbued with the spirit of service and development;
- To offer wide opportunities for higher education to all persons...
- To train scientists, engineers, doctors, teachers, economists, lawyers and other professionals....;
- To carry out research in problems relating to the development of the national economy, science and technology and culture and to advance knowledge;
- To train teachers and academic research staff for the universities and other higher educational institutions;
- To promote scientific knowledge and disseminate its results for socio-economic benefits;
- To undertake any other activities appropriate for a university of the highest standard.
Against the foregoing background, therefore, the objective of the University Library is the provision and proper organization of teaching, learning and research materials in all formats and in all disciplines in the university for the realization of the objects as enunciated in the enabling law. In addition to the curative functions in providing these materials, the library also provides the enabling conducive space for collaborative study, learning, research and knowledge advancement.

**Staffing**

**University Librarian**
Y. A. Izevbekhai, B.Ed (Hons) (Georg) (UI), PG Dip. Lib. (UI), CLN

**Senior Librarian**
D. A. Idada, NCE, B.Sc (LS) (Chem/Libr) (BUK), CLN

**Librarian I**
S. B. Bamijoko, Dip. Lib. (UI), BLIS (UI)
Abiola Oyewo, LLB (OAU), BL, MLIS (UI), LLM (OAU) CLN

**Graduate Assistants**
V. Ekhaguosa, B.Sc (Ed) (UNIBEN)
E. Egharevba, B.Sc (Lis) (AAU) CLN
Mary Irughe, BLS (Ed) (DELSU) CLN

**Higher Library Officers**
I. Omotoso, Dip. Lib. (UNIBEN)
J. Adeyemi, Dip. Lib. (UNIBEN)
M. Iguma, Dip. Lib. (UNIBEN)

**Principal Library Assistants**
F. Ojaide, (SSCE)
C.S. Kalu, (SSCE)

**Senior Library Assistants**
E. Ovuoroye, (SSCE)
B. Nkemka, (SSCE)
Osamudiamen Paul, (SSCE)

**Library Assistant**
Nathaniel E Amafor, (SSCE)

**Chief Porter**
Lucky Nwaiwu, (Primary School Leaving Certificate)

**Senior Porter**
Monday Ojabe, (SSCE)
Agheyisi, Ernest Onaiwu, (SSCE)
Porter
Mary Amune, (SSCE)

Caretaker
Mabel Joseph, (Primary School Leaving Certificate)

Confidential Secretary
Dinah Ibrahim, Diploma (Edo State Poly)

Driver
Michael Airhuoyuwa, Trade Test I, II, III.

**Library Policy**

**The Budget**
For the current year, there is a library book budget of N7 000 000. 00 and a library automation budget of N5 000 000. 00, making a combined library budget of N12 000 000. 00.

**Collections development**
The annual university library book budget is to be shared in the following ratio: 40% of the library's annual budget is for monographic publications and 60% is for journals.

Of the 40% for books, the rule of equity prevails as this money is shared in a way that allows, as much as possible, for equality of disciplines/courses/programmes.

For journals, with available resources permitting, the library shall subscribe to one(1) foreign journal and one (1) local journal per department and subscriptions shall be maintained continuously over several years until reviewed or the journal ceases publication.

1 set of multi-volume work and 3 copies of a title are to be purchased. For heavily used books, two(2) additional copies will be acquired and placed on the Reserved Collection.

**Lending**
Until there is a substantial improvement in the library's holdings, the lending policy shall be as follows:
Students: 1 book for 2 weeks
Teaching Staff: 2 books for 4 weeks;
Non-Teaching staff: As for students above.

Please note that journals, law reports and reference materials can only be used in the library. They are therefore not covered under the current lending policy of the library.

Reserved Collection: Books that are heavily used will be placed on the reserved collection either on the recommendation of the Course Lecturer or based on our own circulation records. Books so placed can only be used in-house and on an hourly basis.
Cataloguing & Classification
From inception, the Library of Congress (LC) Classification Scheme has been in use except for the Law Library which uses Elizabeth Moys's (K) Law Classification Scheme.

As an extension of the LC schedules, the Library of Congress Subject Headings (LCSH) is used in identifying the subject headings for each book classified. For descriptive cataloguing, we have adopted the second edition of Anglo-American Cataloguing Rules (AACR II).

We also use the list of Cutter tables in cuttering class marks for specificity.

Opening Hours
Main Library; During Session
8.00am - 6.00pm (Monday - Friday)
8.00am - 4.00pm (Saturday)

During Vacation:
8.00am - 4.00pm (Monday - Friday);
Please note that the same opening hours are maintained in both the Medical and Law Libraries. The Alumni Centre Library, however, operates an 8.00am to 12.00 midnight opening hours from Monday - Friday.

The Budget
For the current year, the Library has a budget of N7,000,000.00 (Seven million naira) for books and journals; and N5,000,000.00 (Five million naira) for Library Automation.

Professional services offered by the library
The professional services offered by the library include:
1. Circulation services
2. Virtual Library
3. Reference services
4. Reprography
5. Internet services
6. Inter-library loans
7. Current awareness services
8. Online Public Access Catalogue
9. On-line e-journal access, (JSTOR, HINARI, OARE)
10. Provision of seating and study facilities
11. Reserved books services
12. Newspapers, magazines and students’ projects
13. Past semesters/sessions’ examination question papers
## THE LIBRARY, IGBINEDION UNIVERSITY, OKADA

<table>
<thead>
<tr>
<th>UNIVERSITY LIBRARY</th>
<th>BOOKS (VOLUMES)</th>
<th>JOURNALS</th>
<th>LINEAR FEET</th>
<th>SEATING CAPACITY</th>
<th>COMPUTERS NO. OF</th>
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<td>Digital Photo</td>
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<td>Others</td>
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<td>MEDICAL LIBRARY</td>
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<td>PHARMACY LIBRARY</td>
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<td>ALUMNI LIBRARY</td>
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<td>GRAND TOTAL</td>
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SPORTS UNIT

STAFF LIST

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mr. Bernard Ekhaguere</td>
<td>Ag, Head Sports Unit</td>
</tr>
<tr>
<td>2.</td>
<td>Nkwuka Ekwemalor Theresa (Mrs)</td>
<td>Senior Typist</td>
</tr>
</tbody>
</table>

AIMS AND OBJECTIVES

1. Organize sporting activities for staff and students of the University.
2. Prepare students and staff to participate in intra- and inter-University Sports competitions.
3. Maintain existing sports facilities in the University.
4. Advice the University on matters relating to sports and formulation of Sports policy.

In order to realize the above objectives, the sports Unit has planned to organize various Sporting activities in which all students can participate for recreation or use them to develop their talent to higher standard. Modern sports facilities and equipment are available for the use of students. These are:-

i. 3 Football pitch – 2 in the Crown Estate and 1 in the New Sports complex under construction.
ii. 1 table –Tennis Board, 2 Up- to date bats and 2 counters.
iii. 3 Tennis courts (One indoor). Modern Tennis rackets are available.
iv. 2 Volleyball courts with modern nets.
v. 2 Basketball courts.
vi. 2 Pairs of Badminton nets and stands. The Okada Town Hall serves as venue for Badminton Competition and training when the need arises.

MISSION

The Mission Statement of the Sport Unit is:

To use sports to mould good character and faster self–discipline which are the attributes required for success in life and above all, to make Igbinedion University the envy of other private Universities in the field of sports.

Proposed Sports Championship/ Competition for the Year

These includes:-

1. INTERCOLLEGIATE MALE FOOTBALL CHAMPIONSHIP FOR VICE CHANCELLOR’S CUP

This competition which started in 2001 for the seven Colleges of the University hold in October- November every year. It is very popular among the University Community. The current championship is the College of Engineering.
2. INTERCOLLEGIATE BASKETBALL COMPETITION FOR DEPUTY VICE CHANCELLOR’S CUP
Unlike the intercollegiate football competition which is for male students only, this championship is to take care of the interest of the followers and players of basketball among the generality of the male and female students in the University.

3. FIVE A SIDE INTERCOLLEGIATE FOOTBALL COMPETITION FOR DR. MRS. FLORENCE MASAJUWA’S CUP.
This football competition is open to both male and female only the trophy was donated by Dr. Mrs Florence Masajuwa, a Lecture in the College of Arts and Social Sciences in 2007 to foster knee competition among the female student. The current champion is College of Engineering.

4. CHESS CHAMPIONSHIP
This competition is open to both female and students. During the competition, new talented players are discovered from whom the best are chosen to represent the University external competitions.

5. IGBINEDION UNIVERSITY (DEPUTY VICE CHANCELLOR’S OPEN TENNIS (LAWN) CHAMPIONSHIP.
As the name implies, this competition is open to both male and female member of the University Community and its environs.

6. CROSS COUNTRY RACE
It was first organized in 2004. It is open to male and female students as well as staff of the University and is meant to serve the interest of those who like long distance races.

7. INTER-HALL SPORTS FESTIVAL
Six residential halls (3 for female and 3 for male student) are expected to participate in the sport festival in which 8 sports will feature. This sports festival will be used in selecting the students who will represent the University at the NIGERIAN PRIVATE UNIVERSITY GAMES (NPUGA).

Igbinedion University is a strong and pioneer member of Nigeria Private University Games Association (NPUGA) which was set up in 2003 by the Committee of Vice Chancellor and Registrars of Private Universities in Nigeria (CVRPU). Its mandate is to develop sports in the private universities in Nigeria.

8. SUMMER MAKE-UP FOOTBALL TOURNAMENT
This tournament started since 2011 and is played among the club sides in the two Ovia Local Government Areas were the University is located, normally starts in Late July – August. Staff and students also participate in the tournament.

Since its inception Late Dr. J.B. Okoro former University Director of Sports has been its president. The maiden edition of NPUGA games was held at Okada in
December 2005, which the second edition was hosted by Lead City University, Ibadan in December 2007. American University of Nigeria, Yola organized the third edition in December 2009.

The fourth edition was hosted by Western Delta University, Oghara, and December 2011.

The fifth edition was hosted by Joseph Ayo Babalola University, Aro Keji 2013.

The sixth edition was hosted by Afe Babalola University, Ado Ekiti, in December 2015.

The sports that usually features in (NPUGA) Nigeria Private University Games are:- Badminton, Basketball, Chess, Football, Tennis, Tennis, Swimming, Scrabbles and volleyball. Igbinedion University intends to participate in the next students biennial games.
## STUDENT AFFAIRS

### LIST OF STAFF

#### HOD’s Office

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Kennedy Igbinedion</td>
<td>Head, Student Affairs</td>
</tr>
<tr>
<td>2.</td>
<td>Kifordu Agiliga Joseph</td>
<td>Confidential Secretary I</td>
</tr>
<tr>
<td>3.</td>
<td>Miss Joan Omoregie Odion</td>
<td>Admin. Officer II</td>
</tr>
<tr>
<td>4.</td>
<td>Miss Helen Amarachi Ndigwe</td>
<td>Senior Porter</td>
</tr>
</tbody>
</table>

#### New Girls Hostel

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mrs. Olaseeni A. Modupe</td>
<td>Chief Porter</td>
</tr>
<tr>
<td>2.</td>
<td>Mrs. Imariagbe Ifeoma B.</td>
<td>Porter</td>
</tr>
<tr>
<td>3.</td>
<td>Miss Gladys Onyenashia Daniel</td>
<td>Senior Porter</td>
</tr>
<tr>
<td>4.</td>
<td>Adinya Gideon Okpamu</td>
<td>Porter/B. Operator</td>
</tr>
<tr>
<td>5.</td>
<td>Miss Okundi Monica</td>
<td>Porter</td>
</tr>
<tr>
<td>6.</td>
<td>Mrs. Osawaru Sarah</td>
<td>Porter</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Samson Ajibo</td>
<td>Porter/B. Operator</td>
</tr>
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</table>

#### Old Girls Hostel

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<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>POSITION</th>
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<tbody>
<tr>
<td>1.</td>
<td>Mrs. Aikpitanyi Rosemary</td>
<td>Porter</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Ainya Paulinus</td>
<td>Senior Porter</td>
</tr>
<tr>
<td>3.</td>
<td>Richard Osawe</td>
<td>Chief Porter</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Ugo Alexander</td>
<td>Porter</td>
</tr>
<tr>
<td>5.</td>
<td>Mrs. Numbe Christiana</td>
<td>Porter</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. Odiase Efosa</td>
<td>Porter</td>
</tr>
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</table>

#### New Boys Hostel

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
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<tbody>
<tr>
<td>1.</td>
<td>Mr. David Igbinedion</td>
<td>Chief Porter</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Philip Ozor</td>
<td>Assistant Supervisor</td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Omokhabi Sunday</td>
<td>Porter</td>
</tr>
<tr>
<td>4.</td>
<td>Mrs. Jioke Christiana N.</td>
<td>Porter</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Godwin Imidia</td>
<td>Porter</td>
</tr>
<tr>
<td>6.</td>
<td>Raymond Ebie</td>
<td>Porter</td>
</tr>
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</table>

#### Old Boys Hostel

<table>
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<th>S/N</th>
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<tbody>
<tr>
<td>1.</td>
<td>Mr. Sunday A. Odega</td>
<td>Senior Porter</td>
</tr>
<tr>
<td>2.</td>
<td>Mr. Collins Omoregie</td>
<td>Porter</td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Ehis Osaze</td>
<td>Porter</td>
</tr>
<tr>
<td></td>
<td>NAME</td>
<td>POSITION</td>
</tr>
<tr>
<td>---</td>
<td>--------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Stephen Ohagbon</td>
<td>Porter</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Udom Effiong</td>
<td>Porter</td>
</tr>
<tr>
<td>6.</td>
<td>Mr. David Abolarin</td>
<td>Senior Porter</td>
</tr>
</tbody>
</table>

**Medical Hostel**

<table>
<thead>
<tr>
<th>S/N</th>
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<th>POSITION</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>Aghom O. Patrick</td>
<td>Chief Porter</td>
</tr>
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**Alumna Centre, Crown Estate**

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>POSITION</th>
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<tbody>
<tr>
<td>1.</td>
<td>Nkwuka-Oketete Patricia</td>
<td>Chief Porter</td>
</tr>
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</table>
## LIST OF STAFF

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Usiohen Iziegbe</td>
<td>B.Eng (Mech), M.Sc (Eng Mgt)</td>
<td>Head of department</td>
</tr>
<tr>
<td>2</td>
<td>Osiboko William</td>
<td>ND (Civil Eng), HND (Structural Eng)</td>
<td>Principal Technical Officer</td>
</tr>
<tr>
<td>3</td>
<td>Owede Osagie Dandison</td>
<td>ND (Est. Mgt), HND (Est. Mgt)</td>
<td>Resident Maintenance officer</td>
</tr>
<tr>
<td>4</td>
<td>Ifada Maria Ekpen</td>
<td>ND (Est. Mgt), HND (Est. Mgt)</td>
<td>Estate Officer</td>
</tr>
<tr>
<td>5</td>
<td>Dovi Tomla Komlan</td>
<td>Adv. Dip in Mgt Enterprises</td>
<td>Higher Technical Officer (Carpentry)</td>
</tr>
<tr>
<td>6</td>
<td>Osarenkhoie Saturday</td>
<td>Govt. Class 4, Trade Test 3-1</td>
<td>Senior Foreman (Electrical)</td>
</tr>
<tr>
<td>7</td>
<td>Orogun Diamond</td>
<td>P.S.L.C</td>
<td>Senior Tractor Operator</td>
</tr>
<tr>
<td>8</td>
<td>Udusevbaye Kingsley</td>
<td>F.C.C.S, City and Guild, Trade Test 3, 2 and 1</td>
<td>Senior Foreman (Masonry)</td>
</tr>
<tr>
<td>9</td>
<td>Izevbigie Ikponmwosa</td>
<td>S.S.C.E, Trade test</td>
<td>Mason</td>
</tr>
<tr>
<td>10</td>
<td>Andre Wilson</td>
<td>S.S.C.E, Trade Test</td>
<td>Bulldozer Supervisor</td>
</tr>
<tr>
<td>11</td>
<td>Okoduwa Iziegbe</td>
<td>J.S.C.E, Trade Test 3-1</td>
<td>Senior Driver</td>
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<tr>
<td>12</td>
<td>Ogunseye Odion</td>
<td>P.S.L.C, Driving License</td>
<td>Senior Driver</td>
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<tr>
<td>13</td>
<td>Adigbe Samson</td>
<td>G.C.E, Trade Test 3-1</td>
<td>Generator mechanic</td>
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<tr>
<td>14</td>
<td>Akintayo Nurudeen</td>
<td>W.A.S.C</td>
<td>Mechanic</td>
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<td>Oloruntoyin Osiya</td>
<td>P.S.L.C</td>
<td>Borehole Operator</td>
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<tr>
<td>16</td>
<td>Macus Vincent</td>
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<td>Tanker Assistant</td>
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<td>Karimu Waidi</td>
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<td>Senior Driver</td>
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<td>Ogbeide Micheal</td>
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<td>Gardener</td>
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<tr>
<td>19</td>
<td>Aghayisi Wilfred</td>
<td>P.S.L.C</td>
<td>Farm Attendant</td>
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<tr>
<td>20</td>
<td>Ehisenmen Osaigbovo</td>
<td>P.S.L.C</td>
<td>Plumber</td>
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<tr>
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<td>Ibie Sunday</td>
<td>P.S.L.C</td>
<td>Plumber</td>
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<tr>
<td>22</td>
<td>Dele Peter</td>
<td>P.S.L.C</td>
<td>Head Painter</td>
</tr>
<tr>
<td>23</td>
<td>Onahor Emmanuel</td>
<td>P.S.L.C</td>
<td>Gardener</td>
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<tr>
<td>24</td>
<td>Eromosele Lawrence</td>
<td>P.S.L.C</td>
<td>Gardener</td>
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<tr>
<td>25</td>
<td>Efosa Smart</td>
<td>S.S.C.E, Trade test 3-1</td>
<td>Electrician</td>
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<tr>
<td>26</td>
<td>Uwensaken Efosa C.</td>
<td>ND (Electrical Eng), Trade Test 3-1</td>
<td>Electrician</td>
</tr>
<tr>
<td>27</td>
<td>Obohaken Keneth</td>
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<td>Generator Operator</td>
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<td>28</td>
<td>Augustine E. Iyangbe</td>
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<td>Oghoayafedo Osagioduwa</td>
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<td>31</td>
<td>Muritala Taiwo</td>
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<td>32</td>
<td>Dayyabu Salisu</td>
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<tr>
<td>No.</td>
<td>Name</td>
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<td>Occupation</td>
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<td>33</td>
<td>Monday Ehizibue</td>
<td>S.S.C.E, Apprenticeship certificate</td>
<td>Carpenter</td>
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<tr>
<td>34</td>
<td>Abadji Dodji</td>
<td>S.S.C.E</td>
<td>Carpenter</td>
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<td>35</td>
<td>Akpe Mathurin</td>
<td>S.S.C.E</td>
<td>Carpenter</td>
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<td>36</td>
<td>Agbonghaye Francis</td>
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<td>Carpenter</td>
</tr>
<tr>
<td>37</td>
<td>Eboigbodin Joseph</td>
<td>P.S.L.C</td>
<td>Helper – Plumbing/Carpentry</td>
</tr>
<tr>
<td>38</td>
<td>Abegbe Florence</td>
<td>J.S.C.E</td>
<td>Alumni Building Attendant</td>
</tr>
<tr>
<td>39</td>
<td>Ibrahim I. Opeyemi</td>
<td>P.S.L.C</td>
<td>Alumni Building Attendant</td>
</tr>
<tr>
<td>40</td>
<td>Bayo Sanusi</td>
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<td>Tractor Assistant</td>
</tr>
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<td>41</td>
<td>Ajibade Nathaniel</td>
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<td>Welder</td>
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<td>Messanvi Yawo Ague</td>
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<td>Chaold Yawovi</td>
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<td>Carpenter</td>
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<td>Alhaji Maliki</td>
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<td>Mosque Attendant</td>
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<td>46</td>
<td>Grace Idada</td>
<td>P.S.L.C</td>
<td>House Keeper</td>
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<tr>
<td>47</td>
<td>Isiaka Adeyemo</td>
<td>S.S.C.E</td>
<td>Machine Operator</td>
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<td>48</td>
<td>Emudiaverha Onoriode</td>
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<td>Plumber</td>
</tr>
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<td>49</td>
<td>Odey Friday</td>
<td>S.S.C.E</td>
<td>Plumber</td>
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<tr>
<td>50</td>
<td>Asebodan Osoro</td>
<td>S.S.C.E</td>
<td>Clerk</td>
</tr>
<tr>
<td>51</td>
<td>Chibuzor Ike</td>
<td>P.S.L.C</td>
<td>Cleaner</td>
</tr>
<tr>
<td>52</td>
<td>Stanley Ogbesia</td>
<td>S.S.C.E</td>
<td>Block Moulder</td>
</tr>
<tr>
<td>53</td>
<td>Ogunsede Abel</td>
<td>S.S.C.E</td>
<td>Block Moulder</td>
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<td>54</td>
<td>Kunle Ogunyemi</td>
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<td>Mr. Apav Micheal</td>
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<td>56</td>
<td>Sam Rita Okon</td>
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<tr>
<td>57</td>
<td>Isaiah Blessing E.</td>
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<td>Cleaner</td>
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<td>58</td>
<td>Jacob Apuoo</td>
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<td>Block Moulder</td>
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<td>Igbinogun Paul</td>
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<td>Izibli Henry</td>
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<td>Gardener</td>
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<td>61</td>
<td>Samuel Omonua</td>
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<td>62</td>
<td>Odili John</td>
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<td>Tipper Driver</td>
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<td>63</td>
<td>Emmanuel Akpata</td>
<td>P.S.L.C</td>
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<td>P.S.L.C</td>
<td>Lorry Driver</td>
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<td>P.S.L.C</td>
<td>Tipper Assistant</td>
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<td>W.A.S.C</td>
<td>Tipper Driver</td>
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<td>Phillip D. Sule</td>
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<td>Plumber</td>
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<td>69</td>
<td>Amos Apav</td>
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<td>Block Moulder</td>
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<td>Block Moulder</td>
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<td>71</td>
<td>Tyolaha Desmond</td>
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<td>Block Moulder</td>
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<td>Agbonlahor Osas Friday</td>
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<td>Block Moulder</td>
</tr>
<tr>
<td>73</td>
<td>Monday Amarime</td>
<td>W.A.S.C</td>
<td>Generator Operator</td>
</tr>
</tbody>
</table>
FUNCTIONS OF WORKS AND SERVICES DEPARTMENT
1. Construction and maintenance of buildings infrastructure including carpentry repairs/maintenance.
4. Maintenance and repair of University plants and equipment.
5. Maintenance and repairs of University light and heavy duty vehicles.
IGBINEDION UNIVERSITY STAFF SCHOOL (IUSS)
CROWN ESTATE, OKADA

1.0 Introduction
The Igbinedion University Staff School (IUSS) was founded in September, 2005 at the direction of the Vice Chancellor of the University, Professor (Rev.) Eghosa E. Osaghae. It is situated in the Crown Estate of the University. The school started with a population of six children housed in a single block of 3 classrooms. The pioneer staff were:

(i) Mrs. Mercy Omofugbe - Head Teacher
(ii) Mr. Isaac Chafa - Class Teacher

2.0 Past and Present Board of Management of IUSS
The following have been members of Board of Management in IUSS:

October 2007 – August 2008:
1. Professor M. K. O. Padonu - Chairman (Head, Department of Community Health)
2. Professor Anselm Uba - Member (Director, Human Help Services)
3. Mr. Nosa Edogiawerie - Member (Bursary)
4. Mrs. Vera Dawson - Member (Bursary)
5. Angela O. Idonije - Member (Registry)
6. Mrs. A. Okonkwo - Member/Secretary (Head Teacher)

September 2008 till Date
1. Professor (Mrs.) Tonye G. Okorie - Chairman/DVC
2. Professor Anselm Uba - Member (Director, Human Help Services)
3. Dr. R. E. Nwokedi - Member, Head, Department of Physics
4. Mrs. C. Nweke - Member (Deputy Director (Nursing), IUTH)
5. Mrs. I. Igbinsola - Member (Registry)
6. Mr. Taiwo Fadejin - Member (Bursary)
7. *Mrs. Amaka Okonkwo } - Member (Head Teacher) – 2008-2009
9. Mr. Oguntimoju Samuel } - Member (Head Teacher) - Oct. 2012-date
10. Mrs. Monishola Oyerinde - Member/Secretary (Assistant Head Teacher) Oct. 2012 – date

3.0 Past and Present Head Teachers/Acting Head Teacher in IUSS
The following have been Head Teachers/Acting Head Teacher in IUSS:
1) Mrs. Mercy Omofugbe - September 2005 – October 2006
2) Mrs. Amaka Okonkwo - October 2006 – April 2009

*Acted as Secretary to the Board during their tenure.
3) Mr. Isaac Chafa (Acting Head) - May 2009 – September 2012
4) Mr. Samuel Oguntimoju - October 2012 – date

4.0 Status of IUSS
The IUSS is approved by Edo State Ministry of Education to operate Creche, KG, Basic (Primary); and Secondary School (Junior Secondary School (JSS) and Senior Secondary School (SSS). The school has a committee Parents/Teachers Association (PTA).

5.0 Edo State Certificate of Approval of IUSS
IUSS has Certificates of Approval from Edo State Ministry of Education in the following:
(1) Approval to run a Private Education Institution issued on the 3rd of May 2012 with Registration No. 014/012/193.
(2) Approval to run a Private Nursery School issued on the 16th of December 2008.
(3) Approval to run a Private Primary School issued on the 16th of December 2008.
(4) Approval to Operate Igbinedion University Secondary School issued on the 3rd May 2012.
(5) Approval of Recognition to Write Primary School Certificate Examination issued on the 16th April 2012.
(6) Approval to Write the Basic Education Certificate Examination issued on the 19th April 2012.

6.0 Population
The population of pupils/students in IUSS increased from 6 at its inception to 305 in 2012.

7.0 Facilities
Facilities in IUSS include four (4) blocks of building consisting of:
- An Administrative block
- 15 Classrooms
- 5 Laboratories, made up of:
  (i) Integrated Science Laboratory
  (ii) Home Economics Laboratory
  (iii) Library
  (iv) Computer Laboratory
  (v) Arts room
### 8.0 Staff List of IUSS
Staff as at 2012, is as follows:

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES</th>
<th>QUALIFICATION</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mr. Oguntimoju Samuel Segun</td>
<td>B.Sc. Ed./English</td>
<td>Head Teacher</td>
</tr>
<tr>
<td>2.</td>
<td>Mrs. Oyerinde Martha Monishola</td>
<td>B.Sc. Ed./Social Science (Civic Education/Government)</td>
<td>Assistant Head Teacher</td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Osarenren O. Precious</td>
<td>B.Sc./Biochemistry</td>
<td>Teacher</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Ogunbile Akeem</td>
<td>B.Sc. Ed./French</td>
<td>Teacher</td>
</tr>
<tr>
<td>5.</td>
<td>Mr. Chafa Isaac</td>
<td>HND/Agric</td>
<td>Teacher</td>
</tr>
<tr>
<td>6.</td>
<td>Mrs. Amasowomwan Perpetual</td>
<td>HND/Computer Science</td>
<td>Teacher</td>
</tr>
<tr>
<td>7.</td>
<td>Mr. Aghimien Felix</td>
<td>NCE/Mathematics</td>
<td>Teacher</td>
</tr>
<tr>
<td>8.</td>
<td>Mrs. Akpojaro Onome</td>
<td>NCE/English/Social Studies</td>
<td>Teacher</td>
</tr>
<tr>
<td>9.</td>
<td>Miss Blessing Abel</td>
<td>NCE/Integrated Science</td>
<td>Teacher</td>
</tr>
<tr>
<td>10.</td>
<td>Mr. Wonah Godwin</td>
<td>NCE/Biology/Geography</td>
<td>Teacher</td>
</tr>
<tr>
<td>11.</td>
<td>Miss Aisida Yinka Helen</td>
<td>NCE/Home Economics</td>
<td>Teacher</td>
</tr>
<tr>
<td>12.</td>
<td>Mrs. Ugochukwu Faith</td>
<td>NCE/Social Studies</td>
<td>Teacher</td>
</tr>
<tr>
<td>13.</td>
<td>Mr. Aerem Peter</td>
<td>NCE/Economics/Mathematics</td>
<td>Teacher</td>
</tr>
<tr>
<td>14.</td>
<td>Mr. Enadeghe Amsamwonsa</td>
<td>NCE/Economics</td>
<td>Teacher</td>
</tr>
<tr>
<td>15.</td>
<td>Mr. Adeniyi Emmanuel</td>
<td>NCE/Physical Health Education</td>
<td>Teacher</td>
</tr>
<tr>
<td>16.</td>
<td>Mrs. Orisajuwa Olayinka</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>17.</td>
<td>Mrs. Imariagbe Ifeoma</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>18.</td>
<td>Mrs. Osamudiamen Sandra</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>19.</td>
<td>Miss Onuh Blessing</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>20.</td>
<td>Mrs. Isibor Violet</td>
<td>School Certificate</td>
<td>Creche Attendant</td>
</tr>
<tr>
<td>21.</td>
<td>Mrs. Ovioma Roseline</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>22.</td>
<td>Miss Juba Adeyinka</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>23.</td>
<td>Miss Umukoro Patner</td>
<td>School Certificate</td>
<td>Class Attendant</td>
</tr>
<tr>
<td>24.</td>
<td>Mr. Tersoo Iortim</td>
<td>School Certificate</td>
<td>Gardener</td>
</tr>
<tr>
<td>25.</td>
<td>Mr. Nwakpuka Ernest</td>
<td>School Certificate</td>
<td>Night Guard</td>
</tr>
<tr>
<td>26.</td>
<td>Mrs. Iangi Ikyo</td>
<td>Primary School Leaving Certificate</td>
<td>Class Attendant</td>
</tr>
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</table>

### Youth Corpers

<table>
<thead>
<tr>
<th>S/N</th>
<th>NAMES</th>
<th>QUALIFICATION</th>
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<tbody>
<tr>
<td>2011/2012</td>
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<tr>
<td>1.</td>
<td>Mr. Umeleyiora Charles</td>
<td>B.Sc./Mathematics</td>
</tr>
<tr>
<td>2012/2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Mr. Folahan Femi</td>
<td>B.Sc./Accounts – 2012/2013</td>
</tr>
<tr>
<td>4.</td>
<td>Mr. Ajugu Kehinde</td>
<td>B.Sc./Economics – 2012/2013</td>
</tr>
</tbody>
</table>
### 9.0 June 2012 Primary School Leaving Examination Result – 100% Success

There was 100% success. The details and analysis of the result are as listed below:

<table>
<thead>
<tr>
<th>Exam No.</th>
<th>Pupil’s Name</th>
<th>Sex</th>
<th>Final Grade</th>
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</thead>
<tbody>
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<td>Melariri Godpower</td>
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<td>0017</td>
<td>Okwuonu I. Precious</td>
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<td>0018</td>
<td>Omotoso A. Treasure</td>
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<td>Ozor Praise</td>
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<td>Paul Juliet</td>
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<td>0025</td>
<td>Samuel Sarah</td>
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<td>0026</td>
<td>Segun Imoleayo</td>
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<td>Yusuf Favour</td>
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<td>0030</td>
<td>Aikpitanyi Enibokun</td>
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</table>

In June 2012, 30 (thirty) candidates from IUSS sat for the Primary School Leaving examination at IUSS examination centre (Code 14055). This was the first time IUSS pupils were sitting for this examination in their own school!

### Analysis of Result

<p>| | |</p>
<table>
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<td>% of Pass in English</td>
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</table>
LIST OF HONORARY GRADUATES

November 2003

Atiku Abubakar  
*Doctor of Letters (D. Litt.)*

Chief Tony Anenih  
*Doctors of Laws (LLD)*

Hon. Justice S.M.A. Belgore  
*Doctor of Laws (LLD)*

Dr. Jackson E. Gaius-Obaseki  
*Doctor of Science (D.Sc.)*

Dr. G.A. T. Oboh  
*Doctor of Science (D.Sc)*

November 2004

Dr. (Mrs.) Maryam I. Babangida  
*Doctor of Letters (D.Litt.)*

Nelson Mandela  
*Doctor of Laws (LLD)*

Chief (Dr.) Hope Harriman  
*Doctor of Business Administration (DBA)*

Dr. (Mrs.) Winnie Madikizela Mandela  
*Doctor of Laws (LLD)*

HRM Igwe Alex Ezeoba Nwokeji  
*Doctor of Letters (D.Litt.)*

Dr. Mike Adenuga Jr.  
*Doctor of Business Administration (DBA)*

Hon. (Dr.) Fholisani Sydney Mufamadi  
*Doctor of Science (D.Sc.)*

Mr. John Kennedy  
*Doctor of Science (D.Sc.)*

Alhaji Shehu Usman Aliyu Shagari  
*Doctor of Political Science (D.Sc.)*

November 2005

Admiral (Dr.) Augustus Akhabue Aikhomu (Rtd)  
*Doctor of Laws (LLD)*

Dr. Ahmadu Adamu Mu’azu  
*Doctor of Governance (D.Gov.)*

Otunba Adekunle Ojora  
*Doctor of Business (D. Bus.)*

November 2006

Asiwaju Bola Ahmed Tinubu  
*Doctor of Humanities (D. Hum.)*

His Royal Highness, Alh. (Sen.) Haliru Dantoro Kitori III  
*Doctor of Public Administration (DPA)*

His Royal Majesty, Zwelithini Goodwill KabhekuZulu  
*Doctor of Letters (D.Litt.)*

Princess Erelu Abiola Dosumu  
*Doctor of Culture (D. Cul.)*

Gen. Abdusalam A. Abubakar  
*Doctor of Laws (LLD)*

November 2007

Alayeluwa Oba Okunade Sijueade Olubuse II,  
*Ooni of Ife*

*Doctor of Laws (LLD.)*

His Royal Majesty, Otumfou Osei Tutu II  
*Asantehene of Kumasi]*
Doctor of Science (D.Sc)

The Most Hon. P.J. Patterson ON, PC, QC
Doctor of Letters (D. Litt.)

Engr. Chris Osa Ogiemwonyi
Doctor of Engineering

November 2008
Hajiya Turai Umar Yar’adua
Doctor of Humanities (D. Hum.)

Dr. Fidelis Ayebae
Doctor of Science (D. Sc.)

Mallam Dr. Isa Yuguda
Doctor of Administration (D. Admin)

November 2009
Alhaji Mohammed Danjuma Goje
Doctor of Administration (D. Admin)

Alhaji Yayale Ahmed
Doctor of Administration (D. Admin)

Sir David Osunde JP
Doctor of Humanities (D. Hum.)

November 2010
Mrs. Victoria Hansatu Gowon
Doctor of Humanities (D. Hum.)

Air Chief Marshal Paul Dike
Doctor of Science (D. Sc.)

Mrs. Evelyn Oputu
Doctor of Business Administration (DBA)

November 2011
Her Excellency Dr. Ida Betty Odinga
Doctor of Humanities (D. Hum.)

Dr. Oluwole Bankole Oshin
Doctor of Finance (D. Admin.)

November 2012
His Excellency Mr. John Agyekun Kufuor.
Doctor of Letters (D. LITT)

His Eminence, Alhaji Muhammad Sa’ad Abubakar, The Sultan of Sokoto
Degree of Doctor of Law (LL.D)

Mr. Dikko Inde Abdullahi
Doctor of Administration (D. Admin.)

Prince Abubakar Audu
Doctor of Administration (D. Admin)

Chief Alfred Eghobamien SAN
Doctor of Laws (LL. D)

Mr. Anthony Edohoghodo Ogunbor
Doctor of Business Administration (DBA)
LIST OF GRADUATING STUDENTS
2002/2003

COLLEGE OF ARTS AND SOCIAL SCIENCES
Department of Economics and Development Studies
First Class (Hons.)
KACHIKWU, Amalaonye Josephine

Second Class (Hons.) Upper Division
OLOPADE, Bosede Comfort

Second Class (Hons.) Lower Division
KITCHENER, Yakubu Carba

Third Class (Hons.)
OKWUOSA, Ifeanyi Samuel
OMATSEYE, Omaghomi Reagan

Department of Political Science and Public Administration
First Class (Hons.) Nil

Second Class (Hons.) Upper Division
ALIMI, Abosede

Second Class (Hons.) Lower Division
AKAROLO, Charles Akaome

COLLEGE OF BUSINESS AND MANAGEMENT STUDIES
Department of Accounting
First Class (Hons.) Nil

Second Class (Hons.) Upper Division
AKATA, Oghenekome Barbara
UMASOR, Gloria
UWECHUE, Berticie

Second Class (Hons.) Lower Division
EYAMBA-IDEM, Ihelme Asari
OMONZEJELE, Ighalo
UZOCHUKWU, Adamma Ijeoma

Third Class (Hons.)
ADEWAKUN, Ayokunle O.
EHIZOKHALE, Ehiokoya Michael

Department of Business Administration
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
NICHEBE, John Paul Chukwuebuka
ODARO, Aizeyosabo Ekhoriyayi
OWUNNA, Nwakaego Cassandra
UKAH, Mercy Ugochi

Second Class (Hons.) Lower Division
ASHINZE, Rosemary Chukwudumebi
EGUAVOEN, Osagie Abdul

Third Class (Hons.)
UZOCHUKWU, Kelvin Ifeanyi
COLLEGE OF NATURAL AND APPLIED SCIENCES
Department of Computer Science and Information Technology
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
OKOEGUALE, Joyce A.
UWECHIE, Onyinyechukwu Alberta
Third Class (Hons.)
GRAHAM, Douglas Creemben
OBEHI, Omonzeyele

Department of International Relations
First Class (Hons.)
ASHAMU, O. Adeoti
Second Class (Hons.) Lower Division
FRANK-ENE, Faith Odiri (Nee Enemudo)
Department of Political Science/Public Administration
First Class (Hons.) Nil
Second Class (Hons.) Upper Division Nil
Second Class (Hons.) Lower Division
AGHEDO, Nunu
EFETURU, Oghenerobo
Third Class (Hons.)
KEhinDE, Frank OluwolE
LAWAL, Gafar Adekunle

LIST OF GRADUATING STUDENTS
2003/2004

COLLEGE OF ARTS AND SOCIAL SCIENCES
Department of Economics and Development Studies
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
AKELE, Iyore Joy
YESUFU, A. Sufyan
Second Class (Hons.) Lower Division
ABBE, Osaruese
FUFYEIN, Omawomi
JIMOH, Kolawole Abdulakeem
MBUKPA, Asher
Third Class (Hons.)
MERO-ASAGBA, Aye

COLLEGE OF BUSINESS AND MANAGEMENT STUDIES
Department of Accounting
First Class (Hons.)
ELAHO, Isoken Theodora
Second Class (Hons.) Upper Division
ADEBIYI, Adeyinka Olarenwaju
AGADAGBA, Eloho Sandra
EDAFIOGHO, Kesiena Linda
EGONU, Adeze Chomma
IGHODARO, Osahenrumwen Blessing
MOMODU, Rashidat
OKHIKU, Joan Ebahi
UYANNEH, Juliet Anwulika
Second Class (Hons.) Lower Division
AKPOSORO, Helen E.
EDEH, Mark Bekweri
EFETURI, Ofoghale Oghenekaro
EZENDUKA, Nneka Winifred
IDHEHENRE, Florence Oseh
IGUMA, Ehis Elvis
IHEJIETO, Iheanyi Victor
INYANG, Patrick Bassey
NANNA, Orode Jennifer
OJEI, Olukemi Etuonawa
OMEATE, Obiora Chijioke
OMONEDO, Kathryn
OMORUYI, Erhunmwunse Robert
OPONE, Aiogbe Jennifer
OSEMWEGIE, Osatohamwen E.
OYEWU, Yetunde Mosunmola

Third Class (Hons.)
BALOGUN, Ololiimi Shafi
IGBINEDION, Daniel Omorogbe
ODARO, Esenosasrui Oghoere
OKOYO, Odion Henry
SANUSI, Idreis Tola

Department of Banking and Finance
First Class (Hons.) Nil

Second Class (Hons.) Upper Division
EMOKPAE, O. David

Second Class (Hons.) Lower Division
OSUALA, Chiedozie Tobenna Dickson

Third Class (Hons.)
IGUODALA, Edoma Bruce
ISIJOLA, Abimbola Ola

Department of Business Administration
First Class (Hons.) Nil

Second Class (Hons.) Upper Division Nil

Second Class (Hons.) Lower Division
ALADEJEBI, Kemisola Olasimbo
ORIAKHI, Uyi Oghosa

Third Class (Hons.)
ODIA, Osadebamwen Megan
USIADE, Gloria Onyere

Pass
ODIA, Osasumwen Sandra

COLLEGE OF LAW
First Class (Hons.) Nil

Second Class (Hons.) Upper Division
AJGBUNMO, Catherine Kofowora
ARIWERIOKUMA, Bennet Tamunotari
JAIYESIMI-OKUN, Abimbola
OGAGA, Atase
WABALI, Aleruchi Chizor

Second Class (Hons.) Lower Division
ADENIYI, Adewale Adeboyе
AIMIUWU, Osahon
AYOMA, Pamela Adeboyе
DAFILUELO, Louise Egono
ETTANG, Idongesit Imeh
GRAHAM-DOUGLAS, Awongo
IGWEBUIKE, Ifeoma Cynthia
MADUEMEZIA, Uzoma
NJOKU, Stephen Emeka
NWOGBO, Chinenye
ODIGIE, Lydia Osarenkhoе
OSHOGWEMOH, Zainab
OTUKA, John Iheanyi James
UKAIGWE, Petra Ebere
UMEUKEJE, Franklyn

Third Class (Hons.)
CHIGBUE, Asset
EBHALEME, Oseghale Anthony
MBAMAH, Emeka

COLLEGE OF NATURAL AND
APPLIED SCIENCES
Department of Computer Science and
Information Technology
First Class (Hons.)
OSAGIE, Eseosa Stephanie

Second Class (Hons.) Upper Division
ADENUGA, Yewande Esther
AKINLEYE, Oyeronke
EGONU, Obinna Jude
IBHAWOH, Azilomen
ISAH, Lilian Nana-Aisha
ODION-UGBESIA, Edowaye

Second Class (Hons.) Lower Division
EJIOGU, Emeka Benjamin
FAYOKUN, Oluwaseun Johnson
IYAMU, Nosayaba Tyrone
OBOITE, Jonathan Alele Jr.
OWUNNA, Onyekachi Valerie
YAHAYA-ZEKERI, Sherifat

Third Class (Hons.)
AKINBAMI, Abayomi Adeola
BIDDIE-MEMBER, Otonye Ibileye
HART, Rejoy Tamuno
INYANG, Ted Afu
MUGBEH, Jonathan Oghenekome
ORJI, Doris Ada

Department of Microbiology
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
NUHU, Lawal Wyom
Second Class (Hons.) Lower Division
ASHIOFU, Andrew I.
MONYEH, Victoria Ndidi
Third Class (Hons.)
IDEHEN, O. Benson

COLLEGE OF HEALTH SCIENCES
Department of Biochemistry
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
OJO, Yewande T.
Second Class (Hons.) Lower Division

DEGREE ANALYSIS

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ETIEBET, Mona Enobong
NWEKE, Marylinda Nwakaego
OLATEJU, Olajumoke
OYEWO, Oluwatosin Jumoke
OZUBELE, Nneoma Omo
SOARES, Abolanle Deborah

LIST OF GRADUATING STUDENTS
2004/2005

COLLEGE OF ARTS AND SOCIAL SCIENCES
Department of Economics and Development Studies
First Class (Hons.)
ORIMOLADE, Ibironke Funmi

Second Class (Hons.) Upper Division
AINA, Ademola Akinola
EJIDIKE, Oluchi Augusta

Second Class (Hons.) Lower Division
ADEPOJU, Zaynab Temitope

538
AKANDE, Oluwatosin Adenike
AKPUNONU, Egonekwu Amina
ANUMUDU, Akunna Sylvia
ATSIYA, Freedom Monday
OFOEGBU, Chiedo Roland
OKONJI, Kobindi Evelyn
OMEILI, Obiezue Nnaedoziem
WABALI, Chinagorom Chisor

Third Class (Hons.)
AREMU, Bose Oluwakemi
ASEMOTA, Aideyan Emmanuel
BRAIMOH, Ezekiel Omuya
EKHATOR, Isoken
FAKOYA, Oluwasesan Kelechi
MENE-AFEJUKU, Amy
MOMODU, Suleiman
OBI, Nnaemeka Ifesinachi
OJENGBEDE, Adewale O.
TEJUOSO, Aderoyero Rotimi

Department of International Relations
First Class (Hons.) Nil
Second Class (Hons.) Upper Division Nil
Second Class (Hons.) Lower Division
ADAMSON, Ololade Oluwakemi Lainab
AKANEGBU, Chiazor
AMODU, Lateefat Adenike
AWODI, Grace Ekojonwa
IGHODARO, Silvia Ikponmwosa
IKEMEFUNA, Hector Nnamdi
OMARUAYE, Emuejevoke
OMORDIA, Ify Mariam

Third Class (Hons.)
AROMANA, Princess Ese
EYAMBA-IDEM, Eyamba Frances
OBOTUARE, Silvia Ufuoma

Department of Political Science and Public Administration
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
AKPOGUMA, Alice Adetutu
OKAFOR, Chinemye Beryl
ONYA, Reason Rewo McWilliams

Second Class (Hons.) Lower Division
AKOSA, Chinemeye Miriam
IZIDOR, Nnadozie Blessing
OMENE, Emmanuella Dumebi

Third Class (Hons.)
AJAKAIYE, Kayode Imoleolu
IDEM, Mandu Ephraim
IIORE, Osarugue
ODEH, Solomon

Pass
CHUKWUMA, Chukwunonso Ebuka

COLEGLE OF BUSINESS AND MANAGEMENT STUDIES
Department of Accounting
First Class (Hons.) Nil
Second Class (Hons.) Upper Division
NJAYI, Yetunde Mary
AKPETI, Tarere Omoakhaya
EGHAREVBA, Efomo Aiyanebueze
EKPO, Pauline
FAYOYIN, Oyekunle Olamide
HUTHMAN, Monsuru Abiola
INYANG, Emem Aniekam
OBADIE, Emmanuel Kesiena
OMAGE, Blessing Ruth
OTEGBEYE, Abimbola Oluwatoyin
UBOGU, Ifeoma Jennifer

Second Class (Hons.) Lower Division
ABULIMEN, Akhere Vivian
ADEUJA, Adedamola Oluwaseun
ADEYEMO, Olushola Adewole
AKINYEDE, Adeyinka Ronke
ALAWODE, Oluwaseun Modupe
ALEGBE, Oluwaseun Deborah
AMBROSE-HART, Datari Elizabeth
BABADEV, Adegbola Adetokunbo
BON-NWAKANMA, Kelechi
DOKPESI, Homto Vivian
EGBEWUNMI, Ohunayo Elizabeth
EJOVI, Erhuwu
EJOVI, Oghenegaren
EZOMO, Rume
IGBRUDE, Eloho Sybil
LAWSO-JACK, Soibi Ann
NWOSU, Chikodi Johnson
OGBEIDE, Osamudiamen Bruce Lee
OKENMUO, Cynthia Chinwenye
OKOUGHA, Adelene Obahiyo
OKOYE, Chiazoka Chidinma
OKOYE, Nkeiruka Ifeatu
OMORUYI, Lilian
ONUOKA, Chioma Vivian
OSSAI, Chukwuemeka Adesina
OYEKAN, Adegbeke Akinola
TALABI, Oluseyi Oludare
UDOFOT, Nse-Abasi Cosmas
UMEJIE, Esther Ngozi

Third Class (Hons.)
AKOSA, Obianuju Ngozi
AWUNOR, Ogechi
EGHAREVBA, Abiye Aibigail
ISAH, Joanne Sofia
UMEOHIA, Nkiruka Peace

Department of Business Administration
First Class (Hons.)
EKUAZE, Vincent Jnr.

Second Class (Hons.)
OLOTU, Olwaseyi Samuel
SANUSI, Hassanat Bukola
SANUSI, Hassana Dunmola

Second Class (Hons.)
AIGHOBAH, Itohan Augusta
AJABOR, Louis Schwartz
EDO-OSAGIE, Ifueko
EWEKA, Ifeoke Yvonne
IBE, Chinezie David
LAWAL, Nafisat Adekemi
MBAEGBU, Jennifer Chinedu
OJOMO, Emmanuela Osayi
OLOFIN, Oluseyi Abiodun
OLUBUKOLA, Temidayo Emmanuel
ONI, Oluwatoyin Taiwo Paul
OSULA, Omoruyi Osayamen
SORAE, Aiz
UMEOHIA, George O.
UWAIFO, Ehizogie Stella

Third Class (Hons.)
AMADI, Queen Nnena
AMAKOMOWO, Ademilola Olayinka
GARUBA, Onose
ONI, Oluwatosin Kehinde Peter
OSAZE, Aifuwa
SULAIMAN, Nafisah Bashir
SULAIMAN, Nura Bashir

Pass
EBALUNODE, Queenel Ivie
COLLEGE OF HEALTH SCIENCES
Department of Biochemistry
First Class (Hons.) Nil

Second Class (Hons.) Nil

Second Class (Hons.) Lower Division
AJAYI, Atinuke Morenike
BON-NWAKANMA, Uchenna Chibunna
NAPPIER, Osayamen Godswill
OGUNDARE, Olajumoke Emmanuella

Third Class (Hons.)
AJAKAIYE, Ibukun Olusola
AJIBOLA, Ayotunde Adedeji
GBADEYAN, Ademola Ayobami
IMASUEN, Osayammon Lisa
MOHAMMED, Olufunmilayo Ayus
OZOYA, Modupe Olohirere

COLLEGE OF LAW
First Class (Hons.)
OLAWUYI, Damilola Sunday

Second Class (Hons.) Upper Division
ADARAMEWA, Olutade Yetunde Regina
ADAREMEWA, Oluwatosin Omobolanle
AFOLABI, Kassim Ishola
AKINWANDE, Oluwagbenga Kayode
FADAIRO, Rukayat Olayinka
FASANYA, Folake Titilope
ITIMI, Efemena Allison
OZOBIALU, Vivienne Oby
SHONIBARE, Oluwaseyi

Third Class (Hons.)
AKPABOR, Ogochukwu Sheila
IDAHOSA, Ihiese
OSAH, Ovie-Oniso
OSAZUWA, Nneka Victory

Pass
ANUMUDU, Herbert Nnanyereugo

COLLEGE OF NATURAL AND
APPLIED SCIENCES
Department of Biological Sciences
First Class (Hons.) Nil

Second Class (Hons.) Upper Division
ARODIOGBU, Christine Obioma

Second Class (Hons.) Lower Division Nil

Third Class (Hons.)
SULAIMAN, Maryam Bashir

Department of Chemical Science
First Class (Hons.) Nil

Second Class (Hons.) Upper Division Nil

Second Class (Hons.) Lower Division
CHIMA, Ginika Donald
OSHIN, Oluwadamilola Kolade

Department of Computer Science and
Information Technology
First Class (Hons.)
OLATEJU, Ifedayo

Second Class (Hons.) Upper Division
AGAMA, Imomotimi Kareem
AJAGBE, Jelili Abisola
EDO-OSAGIE, Precess Boye
EGONU, Chinedu
FAJULUGBE, Oluwatori
IKEOLUMBA, Obinna Jonathan
JOHN, Ellis Ekpe
OJOBO, Aghogho Oghenerukwve
OMEATA, Ebele Nwanneka
ORIMOLOYE, Oladapo

Second Class (Hons.) Lower Division
ADENIYI, Abimbola Obi
AGULONU, Afam Obiora
AKPAN, Ita Sunday
AKPORUNO, Uzezi
ALALE, Yetunde Motunrayo
ALEGBE, Olwasegu Babatunde
AMANGBO, Onyebuchi Winifred
ARINZE, Chuka Anthony
ASHINZE, Michael Nnamdi
AWO-JEGBEFUME, Omosefe
BUSARI, Oladapo David
DIENYE, John Owajionyi
EBHOMENYE, Josiah Omon Jnr
EBOREIME, Omua Joy
ERONINI, Ihuoma Onyinye
ETAREH, Otega Joel
GARBA, Saidu Mohammed
IGIE, Ekinadoese Claudia
ISIBOR, Osemeka Theodore
MBATU, Daniel Ifeaniichukwu
NNOLIM, Huldah Chioma
OBIAYA, Scott Emmanuel
OGIAMEN, Ibiba Juliet
OJO, Adewale
OLOKUN-OLA, Yomi
OMARUAYE, Oghenemarho
OMOKARO, Nosa Osarieme
ONIYAMA, Oghenemarho
OLUWADARE, Opeyemi
OSUALA, Nelson Ifeanyi
OWOLABI, Eyitope Olutimehin
OZOMARO, A. Majiro
SANNNI, Abiola Olajumoke

Third Class (Hons.)
AKENZUA, Aiguobasinnmwin Ogie
OLOTU, Jeremiah
ONIYAMA, Oghenetega
OSAYI, Emiede Linda
SORAE, Osamede

SCHOOL OF POSTGRADUATE STUDIES
MASTERS DEGREES
Master of Science – Management
AKPETI, Elizabeth
ERAHON, Samson Owerale (Deceased)
IGBINOSA, Sunday Osaretin
OSUNBOR, Osere Cassius
WOGHIREN, Morgan Efosa Osamede (Deceased)

Master of Science – Accounting
ADEDIRAN, Samson Adewale
BAMBOYE, John
ADEKUNLE, Iroha
Francis Odianosa
Dr. Olopade
DAVID Oyeyemi Onah,
SAMUEL, Ebinum
JAFARU, Jimoh

Master of Science – Economics
OGBEIFUN, Monday Ikponmwosa

DEGREE ANALYSIS: UNDERGRADUATE

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BUSINESS & MGT STUDIES
Accounting  -  11  29  9  1  50
Banking & Finance  1  3  5  2  1  12
Business Admin.  -  3  15  7  1  26
HEALTH SC.
Biochemistry  -  -  4  6  -  10
LAW
1  9  12  4  1  27
NATURAL & APPLIED SC.
Biological Sc.  -  1  -  1  -  2
Chemical Sc.  -  -  2  -  -  2
Computer Sc. & Info. Tech.  1  10  38  5  -  54
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DEGREE ANALYSIS: POSTGRADUATE

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LIST OF GRADUATING STUDENTS
2005/2006

COLLEGE OF ARTS AND SOCIAL SCIENCES
Department of Economics and Development Studies
Second Class (Hons.) Upper Division
ALAIYE, Adekunle Peter
AJAYI, Foluso Bayo
ANENE, Ikechukwu Denis
EBHI, Michael Uche
ETSEMTAN, Gloria
EZE, Anthony Chibuike
NWANZE, Uchenna Chukwudi
ODUCHE, Izuchukwu Benjamin
OGIDI, Johnpaul Emeka
OWOYEMI, Bukola Yemisi
YESUF, Saheed Olayiwola

Second Class (Hons.) Lower Division
AHUMABE, Uzoma George

ALUKO, Funmilayo Damilola
BASHIR, Sadiyah Suleiman
CHUKWUKAH, Kashie Nkairu
EKPE, Aniebiet-Abasi
EZEBENNE, Ifeoma Elizabeth
GIWA, Zainab Oluwafisayo
JEMIDE, Weyinmi
NNAEGBUNA, Lilian Udeaku
NWACHUKWU, Oluchi Gillian
OBIUKWU, Charles Nnabuika
OGUNKUA, Yewande Olufunke
OLULEYE, Olufunke Abimbola
OKUDO, Elochukwu Frances Onyinye
OLADOGBA, Juliana Bosede
ONOLEMHENMHEN, Gloria Oghomen
ORIFE, Jabor
OSUJI, Uzoma Nnamdi
OTESANYA, Bankole Charles
NASDAQ, Michael Kanadum
UDOGU, Gerald Chigozie
UGO, Nneoma Mary

Third Class
ABDULLAHI, Rabiu
ADENIYI, Abayomi
NASIRU, Idris

Department of International Relations
Second Class (Hons.) Upper Division
EMEH, Alexander Emeka
OBIDEYI, Olufemi Omowole
UWAFLA, Eziafa Yvonne

Second Class (Hons.) Lower Division
EJERE, Idowu Okheren
ETAREH, Faith
EZEIFE, Ebelechukwu Nneka
OKEHSOLA, Oladipo Agboola
OKPOKPOR, Emifome
TALABI, Adefunke Toafikat

Third Class (Hons.)
ADEGUN, Bolatito Kafilat
AJUWON, Neenat Omobodunni
INREGBESE, Linda
NNAMDI, Amaka Chinenye
OGUNBOR, Isoken Adedayo
OLAIWA, Oluwadamilare Habibat
SADA, Nafiu
UMEOJIAKU, Onyinye Nnem

Department of Mass Communication
First Class (Hons.)
MENSAH, Yvonne Modupeola

Second Class (Hons.) Upper Division
ADEUSI, Adetoyosi Aderonke
COKER, Adeleke Adedeji
IKERODAH, Joseph Omoh
OKOSE, Joshua Chude
OLELE, Nkiruka Joy

Second Class (Hons.) Lower Division
AKENUWA, Isoken Sandra
ENAOHWO, Amy Benaebi
NWOSU, Priscilla Uloma

Department of Political Science
Second Class (Hons.) Lower Division
AKAPO, S. O.
OPONE, Obiamaka

Third Class (Hons.)
OROKODARE, Ayodaae
MOHAMMED, Abubakar

Pass
ENUMAH, Edaeka

COLLEGE OF BUSINESS AND
MANAGEMENT STUDIES
Department of Accounting
Second Class (Hons.) Upper Division
AJABOR, Patience Ifeoma
EZE-AJOKU, Chinedu David
KALEJAIYE, Kafilat Adenike
OLANIPEKUN, Omolara Remilekun
TIAIMIYA, Oluwadamilola Olabisi

Second Class (Hons.) Lower Division
ADEBIYI, Oluwatosin Deborah
ADEJUGBE, Adetayo Joseph
ADEXBUAH, Hilda Ekwi
AFATAKPA, Dafe
AGU, Nneamaka Agatha
AKITAH, Shirley Isimenmen
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ATTOH, Emeka
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545
IGE, F. Oluwabunmi
ILOABUCHI, Ngozi Blessing
LEGHEMO, Solomon
NWABUNIKE, Ifemmbu
OKE, Titilayo
OLIOMOGBE, Marian
ONIANWA, Obiageli Sandra
UDOBONG, Emem Uduak
UGBO, Daniel Jones
VIKO, Iyadah John

Second Class (Hons.) Lower Division
ADEJUYIGBE, Ruth
ADEYEMO, Babajide
AHONSIS, Priscillia
AKHERE-UBGESIA, Edetubu
AKINLEYE, Olutope
AKPETI, Vinalaifa
ALADEJEBI, Francis
ATABO, Peter Onankpo
ATIVE, I. Elizabeth
DOTTIE, Toritseju
EDEH, Idozinum
EJEKE, N. Samuel
EJEKWU, Leslie
ENAI, Elizabeth
FADUGBA, A. Tolulope
FADUGBA, Adeola Temitope
FEBOKE, Ezuomowei
IDRISU, Aishetu
INKO-TARIAH, Sobomabo
INUKAN, Omolayo Meka
NWODO, C. Ifunanya
ODEH, Enifeno
OGUNWALE, Adetokunbo
OKEKE, Ezigbo Chimoa
OKOLI, Nonso
OKPEBHOLO, Onomen Freda
OYEKANMI, Adetutu
SILAS, Ajuma Blessing
WOKOCHA, Chioma

Third Class (Hons.)
ADEBIYI, Adetunji
ADEYEMI, Omolayo
ADIGWE, Ezekiel

AGBONTAEN, Amaeze
AKHERE-UBGESIA, Sadoh
AWOLUMATE, Olukayode
CHIMA, George Somto
DIKE, Rebecca
EJOVI, Eseoghene
EZE, A. Ngozika
IKEAZOR, Chidinma Timothea
KUYE, Oluwabukola
MACGREGOR, Labiran Omolara Oyibinga
MOKOLO, Jennifer
MUOKA, A. Ijeoma
NINIS, Nnamdi Franklin
OBAZELE, Blessing
OBIORAH, Chinonso
ODION-UBGESIA, Enahoro
OGBEIDE, Ehiazonim
OLAJIDE, Marian
ONIANWA, Jennifer
ONIANWA, Yvonne
OPIA, Thelma Grace
ORUGBO, Onajite
OSAWARU, Osayuwamen
OVIAWE, Esosa
OWAMAGBE, Shirley
SOKALE, Babasoji
UZAMERE, Abiemwense A.
IHEAZOR, Onyeka Alex
NWASIKE, Raymond

COLLEGE OF HEALTH SCIENCES
Department of Biochemistry
Second Class (Hons.) Upper Division

ADENIYI, Adedamola
ALLU, Titilayo
OJEAGA, Enibokun

Second Class (Hons.) Lower Division
AISIEN-OGBEBOR, Okunwa
EZEIBE, Chinezelom Florence
IDAHOGBONNERAN, Vera
IIASAN, Bayode
MAJOROH, Awhejevu
ONI, Olajumoke
OYEFULE, Funmilayo Shenel
UKWOMA, Adaku
Third Class (Hons.)
ABAJA, Vivian
ASODIKE, Adak
EKONG, Ekaette Monday
ETIFA, Perezimor
EZE, Uzoamaka
NWALA, Chioma
ovia, Michael M.
EZEIGBEDE, Ivie

College of Natural and Applied Sciences
Department of Biological Sciences
First Class (Hons.)
NDUKWE, Ijeoma Chikodi

Second Class (Hons.) Upper Division
ARAGBAIYE, Young Mary
AWANI, Weyimi Ayokunle
BUKOYE, Adejoke Adedoyin
OKWUAGWU, Chika
AMOWIE, Osaretin Kelvin
OSEMWINYEN, Abieyuwa Lucy
OVABOR, Ese Francisca
PETERS, Sunny Odili
SHONOLA-SHOYINKA, Abosede

Second Class (Hons.) Lower Division
ADEWAKUN, Omolara
AGBARAH, Blessing
AKHIGBE, Obihi Jessica
ALIU, Rabi Mohammed
AMOSUN, Olayemi
ANICHEBE, Sylvia Nneka
ASH-BAKARE, Kareema
BARIGHA, Erefohuma
BUSARI, Olajumoke Toyosi
EBOREIME, Ethimien
EHIMIKA, Olohitare Juliet
ERAHON, Osagioduwa Osarumwense
ERIAMATOR, Ikponmwosa
EIZENWA, Chinyere
FADASE, Olumide

Third Class (Hons.)
ILUYOMADE, Tolulope Akinwale
IRABO, Osasumwen
ISIJOLA, Ajibike Olayiwola
IYAMOLERE, Fadeke Glory
MBADUGHA, Pamela Ijeoma
NJEMANZE, Ulumma Chidinma
ODEH, Grace
OGBE, Opeoluwa Oluakumi
OGUNLABI, Adeola
OKPALUGO, Chioma Genevieve
OLUWASANMI, Aanuoluwapo Bosede
ONIMOLO, Olufunke Sandra
ONIYAMA, Oghenero
ORLUKWU, Ngozi Viviene
OYEDOTUN, Ololade
SOLAGBADE, Adepeju Adesola

Department of Computer Science and Information Technology
First Class (Hons.)
HASSAN, Zainab Oluwakemi
JEGBEFUNE, Ekiegini

Second Class (Hons.) Upper Division
ADEWOLE, Mutiat Abbass
AKERELE, Oluwaseyi Bankole
ANOBALI, Taiwo Uzoamaka
ARUERE, Ufuoma Efe Adelyn
BAKARE, Abimbola Omowumi
IKOMI, Aiello
NMADOZIE, Chika
OGUNBANJO, David Olaseyi
ADEAYO, Adenike Folasade

Second Class (Hons.) Lower Division
ADELAJA, Oluwaseun Michael
AGBODIBU, Finel
ASOBE, Uzoezi Grace
AKINYEMI, Temitope Omotayo
ALAO, John Adebayo
AMACREE, Samuel Ibinabo
AMASON, Ibukunwolaw Samuel
AWOLUMATE, Abee Olusegun
BAMAWO, Lami Izore
BENSON, Adeboye
COKER, Oluwadamilola Adewumi
COLE, Yetunde Georgina
EHINLaye, Orinze TemituoYe
EMMANUEL, Opeyemi
FAKULOJO, Olakunle Anthony
IKPO, Emmanuel Ashimedu
IKPO, John Enujelo
JIMOH, Oluwatoyin
NIEFERE, Eteno-Abasi Akpan
NWAFO, Caroline Chinanye
ODEH, Esosa Rosemary
ODOGWU, Frances Chionye
ODOH, Valentine Okudiri (Jr.)
OGUNNUSI, Olunanowa

OGUNWALE, Oluranti
OJAMERUAYE, Benora Eloho
OLABISI-ABDUL-Waheed
ONIANWA, Chinwe Stephanie
OSAGHAE, Ayowe Getrude
OSHODI, Marian Atinuke
OWOLABI, Oluwakayode Akinloye
PAM GYANG, Philip
THOM-MANUEL, Alalibo Emmanuel
YESUF, Hamed Oludare

Third Class (Hons.)
ANIEFUNA, Blessing Adaku
BASARU, Hamed Olumide
ENODANO, Owhoede
EZEIBETO, Chukwu
NWABALU, Chibuike Innocent
OGBUAGU, Franklin Chikwudi
ABIDOYE, Okirijesu Samuel
TIM-EFOBI, Kosi

Department of Chemical Sciences
Second Class (Hons.) Upper Division
OGUCHI, Laruba
OWOSENi, Olajumoke Ayobami

Second Class (Hons.) Lower Division
AMADI, Ichechi

Third Class (Hons.)
NGENE, Chioma

DEGREE ANALYSIS

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## LIST OF GRADUATING STUDENTS 2006/2007

### COLLEGE OF ARTS AND SOCIAL SCIENCES

**Department of Economics and Development Studies**

**First Class (Hons.)**
- AJIBOLA, Kikelomo Aina
- OMOTOYE, Abidemi Temitope

**Second Class (Hons.) Upper Division**
- ADEKANMBI, Oluwatomilola
- ADEWAKUN, Abisola Gbemisola
- ADIMULA, Abimbola Adetayo
- AJALA, Oluwaseyi Abiola
- AJIBOSIN, Ganiyat Abiodun
- BASSEY, Ubong Thompson
- EKWUEME, Florence
- ELETU, Musa Kolawole
- ETELE, Adaora Chioma
- EZEEMO, Chidinma Uchenna
- EZELI, Onyinye Lauren

**Second Class (Hons.) Lower Division**
- IKEH, Frank Emeka
- IMOSEMI, Sunday Isevboje
- KANU, Chiduziem Isdore
- MORAH, Emmanuel Uzor Godfred
- MUSA, Adamu Jamila
- NWAJEIJE, Nneoma Nancy
- OGUNDE, Olufunke
- OHUNAYO, Fumilayo O. A.
- ORIGHOEYEGHA, U. Eseroghene
- ORUCHE, Ijeoma
- UDOJI, Jennifer Ifeyinwa
- UMEOHIA, Nwanneka Hope
- YUSUF, Kabir Muhammed

**NATURAL & APPLIED SC.**

**Biological Sc.**
- 1
- 13
- 27
- 17
- 1

**Chemical Sc.**
- -
- 1
- 1
- 1
- -

**Computer Sc. & Info. Tech.**
- 2
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IKPE, Kufreobong Nyong
IMUZEZE, Erekpitpan Obehi
INEGIBO, Rekiya
JAMES, Opeyemi Oluwadusin
KANTYEN, Bala Kevin
KAYODE, Abayomi Julius
LEFI-ABUDU, Linda
LIADI, Omotayo Ibrahim
MOGAJI, Oluwatosin
MUO, Chukwuma Charles
NSODUM, Davidson Chiso
NSOFOR, Anthony Chidozie
NWANKWO, Emeka Valentine
NWODO, C. Nelson
NWOSU-IHEME, Uzodimma
OBI, Daniel OlisaEloka
OBI, Obiajulu Kelechi
OBIEKEZIE, Promise
OBILEYE, Tolamishe Zainab
OBODAI, Evelyn Torshie
ODIAEH, Sylvia Ehulu
OGHOLOH, Osazemhen
OGHUMA, Edwin
OGUNYEBI, Olakunle Moyo
OHIKU, Valentine Omofoma
OKORO, George Chinonso
OKUDOH, Adaobi
OLAYINKA, Abimbola Omotola
OLUKOGA, Gbemisola Oluwakemi
OMERU, Akpevweoghene M.
ORJI, Obinna
OROVBONI, Hannah Ochuko
OSHODI, Disu Akinsanmi
OSITA, Lawrence Izuchukwu
OTEHERI, Oghenetijiri
TABOWEL, Emmanuel James
UMARU, Mohammed
WONI, Osi Abdulrahman
YAHAYA, Yakubu
Yusuf, Idefojo Abdulrahman
OKPAISE, Judith Omolefe
OZOEMENA, Ebere Cheta

Department of International Relations
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Second Class (Hons.) Upper Division
CHIBO, Ezinne Anita
EGBE, Helen Ernet
HARB, Cynthia Anuoluwapo
UDOUKPA, Imabong Akpabio

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ADIO, Kafayat Bamidele
AKEJU, Adeyinka
AKPARANTA, Jackie Enyinne
ALEYIDEINO, Dianne Y.
ANUMUDU, Linda Chinonso
CHIALU, Divine Izuwan Chukwu
COLE, Elvis
EGBUCHEM, Chukwubuka Michael
EKISOWEI, Oyinkro Michael
ESIMAJE, Weynme Cynthia
ETIEBET, Sarah Nmayen
IDOKO, Victoria
IYAOMOLER, Eliphus Adedamola
ODIASE, Jennifer Chukwufunaya
OFOEGBU, Nnenna Ukamaka
OGBOMO, Tina
OGUNBOR, Osas Micheal
OKORI, Mimi Gift
OLADOKUN, Kudirat Lanre
OLU-EGBUNIWE, Nkechi Vivian
OMORUYI-ERO, Iziengbe Angela
OPATOLA, Adebusola Sekina
OSUALA, Humphrey Arinze
OTASERE, Osas
UBAH, Goodness Nzube
UZO, Chinoyeem I.

Third Class (Hons.)
AFEBUAMHE, Emmanuel
GILIAN, Garuba
IRA, Dianna
ISEDEHI, I. Ighodaro
MUMUNI, Hassanan Adetla
Department of Mass Communication

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AKEH, Idide
AKINJAGULA, Esther Oyebusola
AKINLABI, Olabisi Elizabeth
ATANDA-OWO, Kikelomo
CHUKWU, Chidi Charles
EJEKE, Dianne O.
HENSHAW, Ikorenyin
KOMOLAFE, Tomilola Clarine
NABENA, Ebilayeloma Rosemary
OGUNDE, Funmilayo
OKOLI, Chineyenwa
ONUWAJE, Amanda Temisanren

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ADEOGUN, Omolola
ADETULA, Tosin
APATA, Yetunde
ASUQUO, Jennifer C.
DOYLE, Kaka Aderemi
EHIMIAGHE, Ayodele Yeside
ETIM, Enobong Eddie
ITA, Emenubong Bassey
JINADU, Awana Olabisi
MOMOH, Meriam
ODUBORE, Dupe Ania
OGUNBOLA, Abidemi
OKOLI, Chizochide
OMADAH, Deborah Ojoma
ONUWAJE, Omatseya

Third Class (Hons.)
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ARUWAJOYE, Bolanle Esther
GIWA, Fausat Folakemi
MARIZU, Eberechukwu S.
OBONNA, Christine Uchechi
UBAM, Nneyen Ntefion

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EBIEDE, E. K. Christian
KANU, Chinenye Gloria

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BOBAI, Bawa
EJEMUDIA, Ure Adesoghene
ENYAKENYI, Daniel Etim
EZENWAFOR, Obiageli Amaka
INU-UMORU, Jafaru
IRIVBOGBE, Itua Osadolor
MUSTAPHA, Shehu Risikat
NELSON, Israel Godwin
OBILEYE, Tope Kazeem
ODION-UGBESIA, Oseiwe
OGUNBOR, Osarobo Naomi
OKOBI, Nnamdi Sylvester
OKOSUN, Nelson Omon
OLATUNJI, Adeyoola Moyo
SOLOMON, Solomon E.
USMAN, Asiya Yuguda

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ABDULKADIR, A. Abdulkadir
ANUMUDU, Austine Okechukwu
OKEKE, Ejiike Justice
ONI, Oluwakemi Ojuolape
SHEHU, Awak II

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OLOWONIREJU, Aro Ruqayah

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BELLO, Osagie Teslim Aghatise
DIYA, Olalekun Olakunle
EGBUNA, Barbara Adaobi
EKPUNOBI, Cynthia Adaugo
ENEMUOH, Chinyelu Linda
EZECHI, Jennifer Ijeoma
IBRAHIM, Kasimu Samirah
IJOMA, Amaka Nkechinyere
ISAH-IKHARO, Zuwaira
MAHMOOD, Temitope Oluwakemi Risikat
NWODO, Obiageli Loraine
OFFIONG, Eti-Mfon Samuel
OGHIEAKHE, Anthony Aloye
OJIAKO, Juliana Iruaku
OKEKE, Humphrey Ahanonu
OKODASO, Onajite
OKWUBIDO, Chinenye
OWOLABI, Ayodele Nihinlola
UMORU, Ramat

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ADAM, Baba Idris
ADERIBIGBE, Omotade Olabawale
ADEYEMI, Titilope Oriyomi
AFOLABI, Kabirat Remilekun
AFOLAYAN, Oluwaseyitan Abiola
AGBO, Obinna Williams
AHMAD, Aminu Fauziya
AJAYI, Adefolake Francisca
AJUMOBI, Olaide Maltida
AKANEGBU, Kosi Uche
AKINGBESOTE, Mary Olatunji
AKINYEMI, Olubuiyide
AKPOFURE, Omonigbo
AKUBUEZE, Chibuzor Raymond
ALAGBE, Jacob Adeyemi
ALAKU, Esla Maxwell
ALLISON, Aderonke Yetunde
AMIEBENOMO, Paulina Dazy
ANIGALA, Omeshamisu Judith
ANOBILI, Kehinde Chukwuemeka
ARINZE, Uche Tessy
ASHAKA, Jonah Omamudhowo
CHUKWULOZIE, Agatha Chioma
COKER, Justine Bose Damilare
EFFIO, Asari Umoh
EKHATOR, Osasu
EKWEBELEM, Chidinma Sharon
EMEKEME, Sonia Akpevwe
EMELOGU, Edith
ERONMEME, Akhere
ETENG, Odong Obia
EZEH, Blessing Ogechukwu
HORSFALL, Ibiba Ebioboere
IBEANU, Lawrence Ikenna
IBERI, Obinna Macdonald
IDAKWO, Ejutereju Bala
IDANG, Cecilia Gordon
IGBINOVIA, Omolola Patience
IEH, Nwamaka Edith
IKEDE, Akpiview Uyoyo
IKUSEEDUN, Abigail Oluwaseyi
IMIRUAYE, Okeme Isaac
ISAAC, Tamunotom Ibiene
ISMAILA, Sajo Ahmed
JAAFAAR, Baffa Ado
JAMES, Oluwabummi Taiye
JOS-BAZUAYE, Otas Otaniyan
LEFI-ABUDU, Brenda Osarumwense
MMEJE, David Uchechukwu
NGATCHU, Leonie Yille
NKEMCHOR, Chukwuka Matthew
NNABALU, Chinazor Linda
NOAH, Tracy Ejiroghene
NWAFORE, Chinelo Uzoamaka
NWOZOR, Faith Ogechi
OGINNI, Adebambo Tolulope
OKE, Aloia
OKEKE, Uchechukwu Nnamdi
OKHOMINA, Christy
OKPO, Iquo Etim
OLASUPO, Elizabeth Busayo
OLOTU, Josephine Folake
OLUPITAN, Bolanle Olaposi
OMOSEHIN, Jumoke Justina
ONEYOR, Jemiyotan
ONOCHEIE, Chuka Victor
OREPITAN, Abolaji Yusuf
ORUKPE, Joanan Eloseghe
OSOKA, Bernard Enyinnaya
OTOIJAHALE, Ehizokhale
SAPERE-OBI, Enebigha Elizabeth
SHEHU, Tatu Hope
SOBUNKOLA, Olanrewaju
UBOKUDOM, Aniedi Anthony
UDOFIA, Itozo Anthony
UDOH, Akan Michael
UDOKOP, Samuel Ekaette
UMEH, Ikechukwu
WOKOCHA, Ulima Grace

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ETOKWUDO, Amaka Perpetual

Second Class (Hons.) Upper Division Nil

Second Class (Hons.) Lower Division
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AFOLABI, Fatimoh Tolani
AGBOOLA, Oladele Olutope
AJOSE, Bodunrin
ASHAKA, Ifohale
BALOGUN, Oluwatoyin
DEDE, Sekibo Tamuno
DIKE, Chiijioke
IGBANOI, Stephanie
OBIELUM, Ifeoma
OGAGA, Omuvie
OHAYA, Maureen
OKEKE, Chigozie
OLOKUNOLA, Abiola
OLOKUNOLA, Olabinpe
OLUYOMI, Oluwakemi
UDEALOR, Chuksudi Dennis Chika
USANGA, Setteama Emmanuel

AFILAKA, Victoria Gbemisola
AWIKA, Oluchi Laura
EKATAH, Perpetua Ekiomado
HARB, Lynda Busola
OGUNLEYE, Alaba Banke
OKAFOR, Chidiogo Nwamaka
OKOPI, Steve I. N.
OSAMWONYI, Eghosa Nosa
SORAE, Ekhorose
SOTA, Omonigho Jennifer
UBEBE, Oritsetimieyin Osayi

Second Class (Hons.) Upper Division
ADIGBOLUJA, Adekunle
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AKINSANYA, Tolu
AZUGBENE, Ihinose
EKIENABOR, Ehijiele
EKPENYONG, Iquo Esuabana
EMELU, Izuochukwu Chike
ENEJERE, Nnamdi Okeychukwu
ERONMENE, Odion O.
ESSIEN, Idara Nsikak
EVIVIE, Lucky Omamuzo
FAGBUARO, Ayodeji Oyinropo
GARBA, Zainabl
IBRAHIM, Umar Babangida
IDIAGE, Ossai
IGBAZUWA, Erdoo Mercy
IGBINOSA, Isaiah Nosa
ILEKHOMON, Sunday
IWENOFU, Obianuju Belinda
KALANAGO, Tonye Ernest
KALAJAIYE, Adeniyi Taofeek
LAWANSON, Ibitoye Ola
MBA, Anthony Chisioka
MFON, Samuel
MMEJE, Okechukwu Peter
MUSA-ABUBAKAR, Latifat
NULUE, Ugochukwu
NWAOKOYIE, Christopher
NWAORA, Ifeanyi
NWEKE, Chigozie M.

Department of Business Administration
First Class (Hons.)
CHIEFERO, Astra Oghenero

Second Class (Hons.) Upper Division
ADOGHE, Osasuyi Monica

553
OFILI, Nwamaka Benedicta
OGBETE, Tamunotom Isaac
OGBUJI, Stanley Chima
OJOMO, Olorunronka
OJOMO, Smauel Osahon
OKEKE, John Nonso
OKOJIE, Paul Enahoro
OKPORU, Tubolyefa Joy
OKWUNOKE, Alexandra
OMERE, Emmanuel
ONUCHUKWU, Candido Uche
ONYEGULI, Promise Chukwuma
ONYEKWELU, Kenechuwku Alex
ONYEOGUZORO, Gaius
OPUTA, Obinna Victor
SULAIMAN, Kubra Bashir
TIMIREN, Adejumoke
UMAR, Najibullah
UMOLU, Ugochukwu
UTEBU, Vivian Telma
UWAKWE, John Ifeanyi
WILLIAMS, Oluwadamilola Esohe

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CHIBO, Eziuche Collins
SIPHEOLU, Francis Oluwaseun
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ABOLARIN, Olamide Omolara
ADEYEMO, Adewumi
AKANDE, Grace Olubunmi
AMADI, Bobby Evans
ESSIEN, Ekomobong
IBANGA, Ekemini Augustine
KANU, Ugonna Godwin
MEGBULUBA, Bawor
OMOLOGE, Emuobosa Mercy
Third Class (Hons.)
AWOMEH, Arthur Sonny

ESSIEN, Enoitohowo Ita
NDULUE, Chigozie
NIKORO, Meyiwa
OGEDEGBE, Samuel Esosa
OJURI, Similoluwa Oluwayomi
OKOJI, Ikechukwu Jude

Pass
EZEUGHOH, Chukwujindu John
IJOMONI, Nicolas

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ARINOLA, Babatunde Olawale
Second Class (Hons.) Lower Division
ACHIMALO, Uchechukwu
AKINFESOLA, Kayode O.
BOMARI, Abido Edwin
EFIOM, Ndaeyo Efiom
OBIANWU, Okechukwu Michael

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ESSIEN, Nnekutunfon Sunday
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ADELEKE, Ademiyi
ASEMOTA, Iyeke Raymond
ASHAOLU, Mojinoluwa Oluwadara
IHIANLE, Omigie Osa
OSUNBOR, Omorotionmwan Armando
Second Class (Hons.) Lower Division
ADEJUMO, Adeyemi Oluwaseun
ALAKIJA, Olugbenga Michael
EFEMOVWO, Emmanuel Edafe
NNAMANI, Nkechi Sylvia
ONOKWAI, Nwabueze
OWOYEYE, Oluwabasayo Adeniyi
UMO, Nsikak Davis
Third Class (Hons.)

554
AMADI, Randy Michael
EKEWEBELEM, Uzoma Valesi
OKEWOLE, Babatunde
OKONYE, Kachukwu Benedicta
OLURUNSOLOA, Olarewaju Desmond
UDOH, Nsifo Ian

Department of Mechanical Engineering
First Class (Hons.) Nil

Second Class (Hons.) Upper Division
AFOLABI, Samuel Oluwole
HORSFALL, Inye Ebida
OMOLEGE, Eseakpevwe John

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AGBESE, Samson Oche Otse
BENSON, Eteotonron Oluwadamilare
MAFIANA, Kobimdi Chukwuka
ODERINDE, Kayode Titilope
OLELE, Emeka Joseph
OMEGA, Njemnobi Ugo
OWOH, Raphael Onyedika
OZOEMENA, Matthew Chibuike

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ODIGIE, Don Osazuwa
ONUNWOR, Ndami
UJURI, Christian

COLLEGE OF HEALTH SCIENCES
Department of Biochemistry
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FASHOLA, Tolulope Omoshalewa
ORUNMWEENSE, Eseosa
SOFELLA, Ibukunolwa Ayo

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ADEYEKUN, Felix
ARABI, Oluwaseun Joseph
EDET, Ubong John
ESI, Ogbenerwegba
IBELEGBU, Ezinne Maureen
IGBEDE, Odeh Eric
IKE, Francisca Onyebuchi
IKOMI, Flora Folashade
MAJE, Naifu Abdulahi
OGBOGU, Austin Dianwe
OKOYE, Tobenna Solibe
ORJI, Cynthia Nnennaya
OYEKANMI, Adedakun Peter
UJE, Ede Okoji Roslyn
UKAOMA, Ejike

Department of Medicine
ABDULRAHMAN, Halima
ADEGBAMIGBE, Babatunde
ADEGBAMIGBE, Oluleye Deborah
ADEKAMBI, Olawatoyin Abiola
ADEWAKUN, Olumide
ADEYEKUN, Adetola Charles
AFATAKPA, Elohor
AJAKPO, Ndadikpa
AKINSEMOLU, Ayodeji Olumide
ALONGE, Oluwakemi Titilope
ANICHEBE, Amaka Frances
EKONG, Kingsley Ekpenyong
ETTANG, Enwongo Ime
EZIAFA, Chiejine Maria
IGBINEDION, Ewemade
ISIBOR, Theodora N.
IYOMAHAN, Coral
JAYEBO, Tolulope Isaac
KIO, Omomene Bolakojo
MADUEMEZIE, Chekube
MEOR-ASAGBA, Ofoeritse
OBUEKWE, Ifechukwu Chukwuma
ODILI, Grace Nkechukwu
ODUNZE, Pius Agbalugo
OGOSI, Angela Nnebuogor
OISAMOJE, Ruth Bosede
OKHAKUMEH, Oghenovo Ifedayo
OLATEJU, Adetoun Temitope
OLAWUYI, Michael Gbenga
OLIHA, Ayo Stephanie
OLUPITAN, Olayemi Kinmilola
ORITSEWEYINMI, Dottie
OSAYIMWENSE, Isoken
OYEMENAN, Jideuche Hilda
OZOR, Ndudi Mmidakota
UWAIFO, Louis Ima

COLLEGE OF LAW
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EDOH, Solomon Osilumese
EMODI, Nneka Chinwe
IKEDUM, Shirley Amaka
IKOGHODE, Izebuen Talatu
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KONYEHA, Ifeoma Ann
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TIM-EFOBI, Sandra Chukwuebuka

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ADEDYOIN, Adegoke Victor
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ADELABU, Grace Olawatoyin
ADEUSI, Temilade Adekanmi
AGBAME, Immaculate
AJAYI, Tobilola Iseluwa
AKANG, Joy Etete
AKHERE, Vivian
ALLI, Abimbola Ibisomi
ANTIA, Obot Usoro
ARENYEKA, Omamofe Valerie
ASEMOTA, Rita Uyinmwen
AWAK, Utitofon Anietie
BURSARI, Abisoye Sekinat
CHEPAKA, Minanyo Victoria
DIETAKE, Yvonne Ojevwe

EBEKU, Winifred Adaeze
EDOKPOLO, Osarieme
EGBUWOKU, Enakeno Okpaemete
ESSIEN, Mfon Godfrey
EVBUOMWAN, Osarenoga Precious
FADIPE, Oluwatosin Olajumoke
IBANGA, Emediong Nsikan
IBE, Doris Ogoma
ICHOKU, Emeka Louis
IKPEAZU, Chinedu Anita
INAM, Uwem Mfon
KUMUYI, Olawunmi Olayinka
KUSAMOTU, Simisola
LANRE-ADEKAGON, Olalekan
MOLOKWU, Chinwe Beatrice
MUSA, Fauziyah Azeezah
NWANKPO, Ifeoma Nchetachi
NWANKWO, Matthew Chidebe (Jnr)
OJO, Omowunmi Gbemisola
OKOKWA, Valerie Eseoghene
OKORONKWO, Enynwa Thompson
OKUBADEJO, Yetunde Olusola
OLADELE, Olakunle Layiwola
OLOTU, Oluwaseun Ibiiyemi
OLOWOYEYE, Yetunde
OMOLOGE, Rachael Eta
OMOTOSHO, Elizabeth Bosede
ONWUDE, Timothy
ORUNGBEMI, Olatundun
OSA-EDOH, Osariemen
OSHIOMAH, Ugienosomhi
OSIKI, Ebiseme Chinenyenwan
OYOYO, Chibuike Remmy
OZIGI, Asipita Victoria
SAGUA, Joy Aghogho
SOLOMON, Anita Henry
TABLE, Umanu Lisa
UZOCHUKWU, Chioma Faith
WARISO, Ngwamitop Lois

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AKHAMIE, Novera Omotayo
ALEGBE, Donalds Oludare
ALLAGOA, Monica
BAZUAYE, Stephanie Ede
BOB-MANUEL, Data Collete
BUSARI, Gbadeyanka Adikat
EKERUCHE, Chioma
EKHABAFE, Odenose Eshemokhai
ESERE, Freda Ekos
EZEKIEL, Temitope Grace
IDENH, Imatitikua
IHENACHO, Nkechi Mercy
IKEMEFUNA, Obiageli Pearl Julian
IKUEROWO, Dayo Paul
ISHOLA, Tina Tokunbo
KALIO, Iyowuna Victoria
NMERUKINI, Prince Chike
NWOBU, Richman Chinelo Ifeoma
NYECHE, Woluchor Nwoburuoke
OBI-ODUNUKWE, Henry Chidiebele
ODIBO, Frances
ODIRAH, Chioma Maureen
OJO, Adeniyi Adeola
OJO-URIOMOR, Emamuzoh Sylvestina
OKAFOR, Goodluck Nonso
OLOTEO, Ohodafe Oluwaseun
ORIYAKHI, Precious Oghomwen
OTEGBADE, Iretidayo
OYAWOYE, Khadeejah Oyewemi
OYEDOTUN, Elizabeth Abimbola
OYUBU, Ighoyeke
RUGBERE, Ese-Oghene
UDEH, Kriss Chidozie
UKAH, Iye-Beten
USMAN, Abdulmutallab Ustaz
WILLIAM-JUMBO, Nim

Department of Biological Sciences
(Microbiology)
First Class (Hons.)
GIWA, Aisha Oluwatosin
HARRY, Patra
OKENMUO, Erica Sochima

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AGHIMIEN, Irene
AIYANYOR, Oyemwen Akugbe
AJOMO, Ajomo Voke
EBITU, Bassey Akamino
HAROLD, Gudi Iyali
IGWE, Amarachukwu Juliet
NDU-OKONYE, Onyebuchi Cynthia
ODUBIYI, Tolulope Omolara
OGIEVA, Osayimwense Erica
OJEAGA, Ivie Claudia
OKODUGHA, Lauretta Otekpen
OKOH, Maureen Uwamari
OMEREKPE, Lynda Adamama
OMO-EGHAREVBA, Amen Jennifer
OMOFUMA, Eboseleumen Onyinyechi
OYAWOYE, Olajumoke Muslimah
OYELIAGU, Juliet Ahunna

Second Class (Hons.) Lower Division
ABASIAMA, Dominic Akpan
ABAYOMI, Temitope Joshua
ADEDUGBE, Adejinka Arinade
ADELAGUN, Olakunmi Ramat
ADJO, Lawal Ayodele
AFUROBI, Oluchi Ogechukwu
AGHO, Nomase Osariemen
AINA, Oluwatomisin Opeyemi
ALABI, Rotimi Ocilama
ASHAKA, Onome Petra
ATUONWU, Amarachukwu Jennifer
EFFIONG, Cecilia Efianwan
EKO-IMIRUAYE, Rukeme
ERHARHI, Onorioode Stephen
ERIGBUEM, Nancy Nneka
GARRICK, Inein Victor
IHUEZE, Ijeoma Adaeye
ILEN-OTUMA, Ibhade Ifeoma
ILOGIBE, Odera Harold

Pass
AKPESUWE, Deborah Erdoo
ANYAWATA, Collins
OMOWAYE, Kolawole Olube

COLLEGE OF NATURAL AND
APPLIED SCIENCES
ILOLO, Pearl Erezi  
JOHN, Ese Ebahialu  
KACHIKWU, Louisa Nkechionyeka  
KONYEHA, Joy Onyekachukwu  
MAKOJI, Sylvia Mabe  
OGHENE, Iva Ovigue  
OJOMO, Adeola Abiola  
OLUWATERU, Adeola Yetunde  
ORJI, Nnemeka Darlington  
SAIDU, Mario Maryam  
TYONOR, Salomi Akpah  
UCHE, Doris Nnenna  
UMEZIE, Samuel Ugochukwu

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NWIZU, Ezra Chioma

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Second Class (Hons.) Upper Division  
GBADAMOSI, Oluwatobi Azeezat

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AZIKE, Amaka  
MAKINDE, Ebenezer  
ONYEKWUM, Charles Onyebuchi

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AGBONIGHALE, Bhim Sunday  
AGBOOLA, Morufat Aderonke  
ALONGE, Oluwasetemi  
AREGHAN, Adesua  
AWOYOMI, Odunola Anifat  
AZUMARA, Mary Adauche  
BALOGUN, Steven Olufemi  
CHIKEZIE, Anulika Mirian  
FABIYI, Oluwafemi Oluwagboyega  
IVHURIE, Albert Ogaga  
NJOKU, Ihuoma Chigoziem  
NWANGWU, Okechukwu  
OBAMO, Bukola  
OGBECHE, Queeneth Etalaowoni  
OLEKAIBE, Onyinye Anthonia  
ONIYANGI, Abdulkarim Olarewaju  
SAM-OKODUWA, Cheryl Omon  
SAMPSON, Orson Jackson  
SULAIMAN, Yewande Sakirat  
UBARU, Samuel Chukwuyenum  
UHAWHA, Eloho Blessing  
UMORU, Paul

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ADEFUSI-OWATE, Adefusola  
ADEKOYA, Oluwayowa Babajide  
ADENIYI, Oluwaseun Tosin  
ADEOYE, Oluwatosin Mary  
ADETULA, Oluwaseun  
AKINBINU, Mary Jane Morike  
AKINJAGUNLA, Faith E bunoluwa  
AKPABIO, Esther  
ALAMUTU, Ajibola H.  
AMIOKU, Onawojiromu A.  
ATERE, Oluwatosin Adeleye  
AZIKEN, Geraldine  
AZUARU, Jeffrey Chimobi  
CHRISTIAN, Ijeoma Chidinma  
CHUKWUONYE, Geraldine Nonye  
COKER, Oluwabukola V.  
DENCHUKWU, Ugonna  
DERIKOMA, Boma  
DUROSIMI, Olaitan  
DIYA, Olalabi Oluwagbenga  
EJEMBI, Ejuru Valerie  
EJINDE, Chukwudi A.  
EKA, Voke Anne  
ESSIEN, Donati Theola  
EZEH, Ifeoma Nkiru  
EZEH, Kenechukwu Amaechi  
GOWAL, Sumuakat Gloria  
IBINOKA, Emmanuel  
ITIMI, Emamoke  
IZUORGU, Chijioke Nnamdi  
JIMOHI, Morayo Oluwadamilola  
KAREEM, Kofoworola Halimat  
MUSTAPHA, Bala Hassan  
MGGISON, Toju  
NASIR, Kauthur  
OBASEKI, S. Eva  
ODUNEYE, Olutosin Omolayo
OGAGA, Edjere Mark
OGHOGHOLUSU, Kesiena
OGUNDARE, Peters Olajide
OKAKWU, Shirley N.
OKAM, Uzoma
OKHIRIA, Christopher Seun
OKOLI, Chukwuebuka Omeife
OKORIE, Emeka Chinedu
OMARUAYE, Jevwe
ONAKPOVHIE, Patrick Ovie
ORJI, Adaobi Charity
OSAYIMWEN, Sophie Omoye
OSHIKOYA, Idris Olawale A.
OSHINOWO, Kole Olumoroti

OSAKWE, Agatha Anwuli
OTAH, Helen Ojevwe
SALIHU, Ahmed Tijani
SUBAIR, Abiodun Ayisat
TEMILE, Gbubemi Jessica
TIFASE, Dayo
UMOH, Otobong Aknyene
UNEGBU, Uzochukwu C.
UTUK, Mariam Victor
UZAMERE, Osamwonyi
YUSUF, Khadijat

### DEGREE ANALYSIS

<table>
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<tr>
<th>College/Department</th>
<th>1st Class</th>
<th>2nd Class Upper</th>
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</table>

**LIST OF GRADUATING STUDENTS – 2007/2008**

**COLLEGE: Arts & Social Sciences**

Department: Economics & Development Studies

Class of Degree: 2nd Class (Upper Division)
Agulonu, Chinemelum Chinny
Eze, Henry Ikechukwu
Ibrahim, Fatima Jummai
Iwara, Koyona Loisa-Margaret
Ladipo, Layo-Motunrayo
Nwagbo, Ezinwa Margaret
Okolo, Magdalyn Uche
Oladosu, Saheed Kolapo
Olajuwon, Yusuf Olatunde
Oteri, Ebimami
Soares, Lola Esther
Uduije, Celestine Ejike

Class of Degree: 2nd Class (Lower Division)
Adebimpe, Adebukola
Adetoro, Lois Doyinsola
Aghadiuno, Loretta Dili
Agibe, Ngoro Ngoro
Agulonu, Tochukwu
Aja-Nwachukwu, Sam
Ajide, Oluwayemi Jephat
Akindunbi, Silas Olalekan
Akpabor, Stanley
Aminu, Rukayat Funmilola

Mgba, Okoro Ezinne Chidiebele
Mbiereagu, Ogochukwu
Ndayako, Mohammed Bagudu
Obi, Olisaeloka Joseph
Odeniyi, O. Joseph
Okafor, Kenechukwu
Okoli, Ndidi Mary-Ann
Okomo, Maria Carem
Oko-Oboh, Isreal
Oladimeji, Ilemobayo A.
Olatinwo, Toyin Abduljelil
Onyekwe, Ebubechukwu
Oru, Tejiri M.
Oyeleye, Ayodeji Omololu
Ramat, Usman
Soares, Christianah Olufunke
Umeh, Marcel Obiora
Uwatse, Aritetsoma

Class of Degree: 3rd Class
Aliyu, M. Amina
Egwuonwu, C. Sunday
Eko, Michael Olusesan
Ibidapo, Adedamola Olumide
Mohammed, F. Abdulrazak
Obibi, Jeremiah

Department: English
Class of Degree: 2nd Class (Upper Division)
Arunsi, Ngozi Christianah
Igharo, Isoken Renette

Class of Degree: 2nd Class (Lower Division)
Odoma, Margaret Arikpi

Department: International Relations
Class of Degree: 1st Class
Uloghobui, Agatha M.

Class of Degree: 2nd Class (Upper Division)
Badejo, Anouluwapo Y.T.
Brown, Adewumi Anthony
Isoh, Ifeoma
Obaika, Rachel K.
Okwubulu, Hilda Oge

Class of Degree: 2nd Class (Lower Division)
Aigbodion, Idowu
Aliyu, Mohammed Hauwa
Attoh, Ifeoma Adeola
Azike, Nnamdi
Benibo, Obomate
Ebalunode, Osariemen Anna
Echefu, Emmanuel Udochukwu
Essah, Patience Moses
Ibrahim, Khadijat Abiola
Imananagha, Dennis
Inu-Umoru, Zekeri Zayosi
Kwaki, Ishaku Hellah
Ladotasiu, Da-Marknaks
Nwachukwu, Amarachi Ijeoma
Nwakwesili, Arinze
Odegbanmi, Olabode Oluseun
Ogbodo, Emma
Ogunbor, Ifueko
Ogundele, Tosin Ololade
Okeke, Euphemia Chidinma
Olayinka, Abolanle Omowanmi
Onuoha, Ndubuisi Kenneth
Onyeke, Chuka
Orejoko, Babatunde
Oyema, Vivian
Sambo, Wanaemi
Umar, Babale

Class of Degree: 3rd Class
Akweh, Ohuma
Biakpara, G. Tenna
Eduok, Nsikak Edidiong*
Emiola, Abimbola Zainab
Muhammed, Bala Aisha
Omorgbe, Osheni Sasa
Zang, Bilkam Sasa

Department: Mass Communication
Class of Degree: 1st Class
Ogunyemi, Simisola

Class of Degree: 2nd Class (Upper Division)
Areghan, Odion Ighodalo
Atubokoh, Cynthia Nky
Ekan, Emem Effiong
Harry, Sotonye Becky
Mohammed, B. Salamatu
Momo, Felicia Emike
Nwosu, Ogechi
Owolabi, Gbemisola Yvonne

Department: Mass Communication
Class of Degree: 2nd Class (Lower Division)
Achinehwu, Chile
Adenuga, Adebola
Alale, Leslie
Anumudu, Brown
Atubokoh, Christopher
Ekojikoko, Oluwabukola Voke
Felegha, Annet Biyebemare
Mekoma, Ndidi Blessing
Okike, Emmanuel
Olaoye, Oluwatoyin
Shodeko, Oluwafemi
Tonycheta, Chukwuemeka
Yusufu, Surayyah
Zang, Keneng

Department: Political Science & Public Administration
Class of Degree: 2nd Class (Upper Division)
Ezenyili, Obi Kelvin
Omoigui, Aisosa Nilky

Class of Degree: 2nd Class (Lower Division)
Akasiaka, Harrison Denfa
Asemota, Honesty E.
Chukwudebelu, Obiora R.
Ezenweputa, Sylvester
Mbamah, Tobi Henry
Oghobaghase, Nogosa
Omagbemi, Emmanuel Tuoyo
Omoluabi, Jeremiah O.
Tonweh, Tuoyo
Udokang, Itohowo Sylvester
Ukpanah, Akaninyene
Department: Political Science & Public Administration

Class of Degree: 3rd Class
Ahmed, Zaynab I.
Odimegwu, Anthony

Department: Sociology & Anthropology

Class of Degree: 2nd Class (Lower Division)
Dabo, Mary Amina
Oghohi-Oarhe, Ehiseme

COLLEGE: Business & Management Studies

Department: Accounting

Class of Degree: 1st Class
Etokwudo, Ifeanyi Cornelius
Ibrahim, Maryam Kasimu
Obika, Franklin Kodilinye
Oriekhoe, Uhunoma Osamudiam

Class of Degree: 2nd Class (Upper Division)
Aderibigbe, Rufus Remi
Ahmed, Aishat Ronke
Aliyu, Ibrahim
Amachukwu, Nchedo Jessica
Amafor, Bamafor Ebele
Anyanwu, Ijeoma Adanna
Emiohe, Grace Edeghohgo
Eniolorunda, Ayodele
Essien, Imaobong
Ezeogu, Ikechukwu
Governor, Godbless
Igbinosun, Ivans Etinosa
Ijezie, Chioma Lovelyn
Ikeche, Chukwuma Henry
Imalennowa, Ruth Iyesogie
Inoni, Ufuoma Neille
Iyi, Ifunanya Adaora
Lawanson, Ibironke Ola
Mbanefo, Emeka Edward
Mukhtar, Yola Yusuf
Okere, Iheoma Ihejelemma
Okereke, Obiananma Towani
Olayiwola, Temitope Olawunmi
Oriaifo, Laura Omozusi
Oshiomah, Onomoesi

Saibu, Sifau Abdulkadiri
Udoh, Hephizbah Sunday

Class of Degree: 2nd Class (Lower Division)
Abdurahim, Mohammed Aminu
Adebimpe, Adenike Bilikisu
Adebiyi, OluDare A. Israel
Adeniyi, Toluwalase Comfort
Aigbokhaevbo, Ehimare Lawrence
Akinsanya, Afunso Abolore
Aliyu, Usman
Arinze, Tessy Uche
Awe, Irene Ogenechukwu
Awiaka, Nkechi Cynthia
Barkindo, Mohammed Bamanga
Ebuozoeme, Chinyere Theclar
Ediae, Etinosa Festus
Eguabor, Ehiaghe Cynthia
Ehiarimwian, Blessing Amierovbiye
Eifie, Ambrose Ehis
Ekidem, IniEke Essien
Eniolorunda, Ayodele
Eze, Ikechukwu Nwachinemere
Ibegbu, Lucy Obiageli
Idogho, Gerald Geimhe
Ighodaro, Tessy Osagbemworhue
Igwemka, Nwamaka
Jesurobo, Osazee Terence
Kotun, Abdullahi Ef Oloade
Kragha, Oghenetega
Matanmi, Bolarinwa Zainab
Mbelu, Nwamaka Jane
Modebe, Vivian Nonyelum
Mukhtar, Yola Umar
Nkuche, Iheanyichukwu
Nworah, Nche Princewill
Obamjore, Hammed Adewuyi
Obule, Tare Martha
Oguma, Rukewve
Okhiku, Joseph Omole
Omiohemi, Asekha
Onu, Nwene
Onukwue, Chinonyerem
Onyemo, Ruth Abel
Oputa, Kenechi Jennifer
Oruosah, Deborah Nwaneka
Otoide, Osariemen
Silas, Injyrindonfaghe David
Temile, Omayowe Daisy
Udoh, Evans Akon
Umoren, Etieneobong E.
Yunusa, Gregory Omajali

Department: Banking & Finance
Class of Degree: 2nd Class (Upper Division)
Adeniyi, Olumide Idris
Ayeni, Akintunde Olawane
Majoyeogbe, Kehinde
Siyanbola, Hakeen Opeyemi
Ucheagwu, Peace Chinwendu

Class of Degree: 2nd Class (Lower Division)
Fache, Samuel
Inuwa, Hassanat
Soribe, Ugochukwu

Department: Business Administration
Class of Degree: 1st Class
Abaja, Maxwell
Essien, Juliet Pius

Class of Degree: 2nd Class (Upper Division)
Akinyemi, Gbemisola Temi
Azike, Chukwudi
Durojaye, Saheed Owolabi
Ejim, Armstrong
Ikebudu, Ikechukwu Chukwuebuka
Imafidon, Kelly
Itepu, Kingsley Uwa
Job, Irene
Nwobu, Obiora Chikadibia
Nzewi, Ifeyinwa Grace
Obaika, Paul
Oduah, Obiora Okwuosa
Offiong, Patricia Joseph
Okafor, Kelechi Juliet
Okunbo, Matthew Imuetinyan
Otouaghanle, Irenosa Maris

Udoji, Leonard Afamefuna

Class of Degree: 2nd Class (Lower Division)
Abari-Sekinat, Olaronk
Adeagbo, Sultan A.
Adebayo, Fatima Oluwafunke
Agulonu, Uzochukwu Atuegwu
Ajijujo, Frank Ebuka
Alawoya, Abayomi Oluusola
Aliyu, Ibrahim
Asikpo, Mfoniso Anny
Atulomah, Bruno Uchechukwu
Aweda, Olukayode Adetunji
Awudu, Oghenero Splendour
Ayuwu, B. Favour
Bibinu, Abdulrahaman
Dare, F. Abosed
Ebinami, Daniel Miepre
Ekpa, Akwaowo Kokoette
Emina, Esther Kweme
Ereboh, Tolumudein
Eric, Iroka Uchenna
Iluobe, Ejeme Ekemeare
Iluyemi, Olayemi
Inegbese, Michael
Inoaghan, Ejiro Progress
Koki, Emizibo Fanus
Mamman, Mohammed
Manu, Abdulamalik
Ndubu, E. Spencer
Negbenebor, Peter
Obialo, Francis Ikechukwu
Obianodo, Calistus
Ogaga, Kemedjewa
Ogbemobor, Edosa
Ogbeide, Israel Efosa
Oigbokie, Francis
Okhomina, Nosa Brown
Okoye, Onyek a P.
Olaoye, Oluwafunke Monsurat
Osayomwanbo, Usen
Owakah, Orowho gift
Oyeleye, Babalade Oluwaseun
Sarumi, K. Olabisi
Sulaiman, A. Fasasi

563
COLLEGE: Engineering
Department: Chemical Engineering
Class of Degree: 2nd Class (Upper Division)
Afabor, Ejigoghen Obaro
Aganbi, Aghogho
Ibrahim, Olumayowa Aminat
Mohammed, Hafees Adeola
Okosun, Patrick Emi
Olofinitorite, Tolayemi
Ovbiye, Oghenekkeke Serena
Ukpebor, Enohi Samson

Class of Degree: 2nd Class (Lower Division)
Akinbodehin, Olumuyiwa Tunde
Chijoke-Keme, Linda Ogechi
Egolum, Chike Henry
Ejey ecological, Inifuro Maureen
Etele, Jideofor
Hassan, Abdullahi Bala
Iko, Hilda Nengi
Kurah, Risinah Yom
Morka, Rachael Egbine
Muobike, Anthony Okechukwu
Mustapha, Munirat Ololade
Odejimi, Okakunle
Ogbonda, Joy Nene
Ojo, Samuel Olanrewaju
Okereke, Yolanda Akachukwu
Onyeogu, Enyinnaya
Ossai, Olise Oluwatobi
Rapu, Rosemary Nneamaka
Shinyi, Paul Akura
Sobunkola, Michael Oluwamayowa
Ubini, Omonigho Josephine
Udo, Aniek'em Okon

Class of Degree: 3rd Class
Abbas, Ikenna Luke
Momoh, Nanashat Josephine

Department: Civil Engineering
Class of Degree: 2nd Class (Upper Division)
Ambaiowei, Charles Doubra
Coker, Odunayo Oluwaseun
Ekong, Frederick Effiong
Ike, Hichie Kevin
Olahunju, Anthony Adekunle
Orlu, Rosemary Adanade
Yusuf, Habeeb Tosin

Class of Degree: 2nd Class (Lower Division)
Achebe, Jessica Chinwe
Dawan, Na’Ankang
Edeki, Idianemi Taiye
Edeki, Omia Kehinde
Fabiyi, Oluwasegun Kayode
Folami, Idris Olatunde
Iroro, Walter Oroobosa
Ohahuna, Ugochukwu
Oladele, Isreal Abidemi
William, Uwemedimo Okon

Department: Electrical/Electronics Engineering
Class of Degree: 2nd Class (Upper Division)
Ajayi, Adekunle Bola
Akparanta, Dafini Lesley
Anagu, Tobechukwu Lawrence
Ekpenyong, Fduakpong Edet
Enabooji, Henry Emeke
Esiad, Elijah Esiad
Igbokwe, Ifeanyi Emmanuel
Okonkwo, Ebele Scholarstica
Omotoye, Kayode Oyebade
Ukpong, Aniekem Obebe
Umanah, Unyime Ime

Class of Degree: 2nd Class (Lower Division)
Adekanle, Ayokunle Oluwolo
Adewole, Feyijimi Ohiomma
Adongbede, Temitope Folashade
Akparanta, Dafini Lesley
Aruleba, Kehinde
Asor, Andrew Vincent
Awonusi, Michael Olanrewaju
Azubuike, Charles Obiajuru
Charles, Jasmine Ibubelem
Chiatula, Chukwuemeka Chineye
Dada, Oluwashina Jeremiah
Egharevba, Ikponmwosa Daniel
Ekong, Gabriel Effiong
Erhahon, Osamudiamen David
Etiebet, Ethel Ememobong
Ezenwa, Chinenye Josephine
Ibrahim, Asmau
Idehen, Edosa
Idris, Idris Aminu
Ighalo, Honour Aiwanehi
Ighodaro, Aideologie
Iheakam, Natal Edmund
Iyoyo, Tamunofiri
Jemegbe, Misan
Maduabum, Chukwudebelu Chukwuemeka
Martins, Udim Ifiok
Momadu, Michael Lotanna
Ojinnaka, Iifeanyi Stanislaus
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Okelarim, Adegoke
Olabisi, Adeleye
Olu-Ibukun, Olumide O.
Omokuru, Oviefor Nicholas
O moyajowo, Emmanuel Tayo
Onyes, Tochukwu Frank
Orimoloye, Iyinfoluwa Odunayo
Tombia, Donald Azuoma
Urevbu, Oghenewevde Martins

Class of Degree: 2nd Class (Lower Division)
Ajayi, Adejare Olubodun
Akamigbo, Chukwuemeka Uju
Anichebe, Uchenna Kingsley
Ayere, Obihe
Bamigbade, Oluwatoiyin
Dafosi, Oluwasiyi Benjamin
Dawudu, Ibrahim Shanzhi
Ebimoghan, Doubra Yerin
Ejiofor, Ikenna Nnamdi
Ejofodomi, Ochamuke Ojeme
Ekanem, Ekanem Okopodong
Nima, Gogorobar Barile
Odubo, Silverline Izon-Ebi
Ogbe, Ibimitomi Akinola
Okoli, Emmanuel Chukwunyelu
Omotoso, Moyosore Anne
Peter, Ini-Ubong Imoh
Shogos, Louis Gyang

Class of Degree: 3rd Class
Ogbonnaya, Uchechukwu Success

COLLEGE: Health Sciences
Department: Biochemistry
Class of Degree: 2nd Class (Upper Division)
Afeisime, Ehiumeme
Imafidon, Faith Idiagbonwren
Ogunye, Ayotunde Oluwole

Class of Degree: 2nd Class (Lower Division)
Okeke, Chinemere Cynthia

School of Clinical Medicine
Department: Medicine
Adekola, Ayodele Abieyuwa
Adeloye, Grace Oluwaseun
Aderonpe, Adeope Debra
Aguda, Funke Elizabeth
Aimola, Erema
Akata, Eloho Uzuazokaro
Aliboh, Sochima Isioma
Arubayi, Ojeme Abimbola
Asemota, Esohe Bethseda
Balogun, Adekola Kafayat
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**Class of Degree: 2nd Class (Lower Division)**

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Awokulehin, Oluwaseun Charles
Ayelowo, Oladapo Michael
Ayobolu, Oluwaseun Temitope
Azinge, Obiajulu John
Azubuiko-Udah, Nkuma Shedrack
Babalola, Joshua Abiodun
Busari, Gbemisola Sekinat
Chepaka, Iworima Grace
Chokor, Oghenerute Ejiro
Chukwu, Vivian Chinyere
Chukwulozie, Chika
Dambo, Meremute
Damieibi, Somiari
Dan-Jumbo, Atibi
Dibiaezue, Chioma Chizoba
Dike Priscillia Ogonda
Dore, Amatesiro Roland
Duke, Ekpennyong Bassey
Dumzo-Ajufo, Biosa Ikenna
Duro-David, Abimbola Adeola
Durowoju, Habibat Eniola
Ebiki, Letinah Idubamerie
Eda, Bemigho Alexandral
Egbe, Tom Tamaraudoubra
Egolum, Uchenna
Ejekwu, Gloria Udochi
Ejiugwo, Amaka Jennifer
Ekwale, Sarah Ochuko
Emefiele, Kikachukwu Michael
Ernest-Ikoli, George Nayate
Esenwah, Judith Ifeyinma
Esere, O. Winifred
Essen, Edidiong Ita
Etele, Chidinma Chukwuma
Etim, Ekaete Eddie
Eze, Joy Chidinma
Folorunsho, Mosunmola Sherifat
Gamble, Mfon Ime
Gbenoba, Yvonne Ewere
Ibeneme, Emmanuel Ugochukwu
Ibikunle, Omolola Bridget
Ibrahim, Owuza
Ibudeh, Onyiye Jane
Idowu, Titilayo Christiana
Igoniwari, David
Iheme, Geraldine Chinwe
Iheme, Jacqueline Chigozie
Ikani, Eleojo Precious
Ikeazor, Chinny
Ikedum, Rosemary Chinonso
Ikuesan, Oluwadamilola Omolewa
Iluobe, Ilobekeme Fiona
Inaaghan, Aghogho Joy
Inyang, Uduak-Obong Francis
Ipaye, Felilat Oluwatosin
Ipinlaiye, Olubunmi Omolola
Iwajomo, Boluwaji Ayodeji
Jaiyeoba, Tolulope Olufunke
Jemide, Alero Oluyemi
Jerry, Kalu Linda Chinagorom
Kalu, Adanze Tony
Kehinde, Adeyemi Oluwaseun
Kehinde, Oluyemisi Oyinlola
Kobani, Tonbari Mgbo
Kuejubola, Yakpo
Kusamotu, Oluyanju Mariam
Ladipo, Dolapo Adedoyin
Maina, Nalong Rakiya
Mbhe, Idara Augustine
Mokuolu, Oluyemisi Tobi
Moses, Idongesit Aniefiok
Mosuro, Olasunkanmi Adesubomi
Ndu, Chimenem Nnadi
Nikoro, Eyeno
Nwachukwu, Uchechi Ada
Nwafó, Chikodi Bukola
Nwakwesi, Catherine Nkolika
Nwiado, David Chief
Nwosu-Iheme, Uzoma
Obanikoro, Abidemi Olayinka
Obi, Chinedu Kingsley
Obi, Onyeka Samuel
Obianagha, Adaobi O
Obidinma Chziebere Obidinma
Obong, Itohowo Ikpe
Odey, Alice Nka
Odogun, Tive
Ofer, Eniola Olawunmi
Ogbe, Abesco Mary
Ogbue, Ifunanya Nnolika
Ogoloma, Keledo Aston
Oguma, Ufuoma Peace
Ogunlana, Ayodeji Onawale
Ogunsote, Oluwatobiloba Olajumoke
Ogurinde, Rotimi Priscilla
Ojirevwe, Oghenerukevwe C.
Okafor, Simone Ukaoma
Okeaya-Inneh, Osahon I.
Okereke, Ihuoma Joy
Okonkwo, Chioma Nicolette
Okorodudu, Isioghene Tamarabra
Okoye, Obuteakib Ngozi
Okpara, Onyekachi Obianju
Okporu, Doubra
Okporu, Ebiakpo
Oladele, Ajbola Toluwani
Olakunri, Oyindamola Olu bunmi
Olaniyi, Mathilda Eniola
Olugosi-Sulaiman Okikiola
Olupitan, Adesola Toyin
Olupitan, Temitope Sarah
Oluwatuyi, Kayode Charles
Oni, Olamide Oluwatomisin
Onyemauwa, Ijeoma
Onyeobi, Trisha Ngozi
Osa-Edoh, Precious Osasogie
Oyeneyin, Olaribike Omolola
Pepple, Inyie Chris
Raim, Adeola Kabir
Sobotie, Vokeroye Amanosi
Taiwo, Samuel
Temile, Amorigboye
Udeaja, Adaobi Pamela
Udoji, Chisom Maria
Ukachukwu, Faith Ifunanya
Ukpont, Ekeminiabisi Victor
Umar-Sadiq, Ma’azatu
Umoru, Osiro Joan
Usman, Nana Aisha
Uwa, Chidinma Lizzy
Warrie, Enobong Okon
William-Chukwu, Godfrey
Wo keh, Godwin Ichechi
Worgu, Ichechika
Yarrow, Maudlin Tuo
Yusuf, Maryam Farida

**Class of Degree: 3rd Class**
Anyankpele, Tare Joseph
Asaboro, Deborah Eguono
Azinge, Nkolisakwu Nduka
Eresia-Eke, Ireoma Gabe
Imoniero, Austin Julius
Inengibo, Maryam Ebinabo
John, Nneka Francisca
Maukalam, Chika Onyinye
Momodu, Olanrewaju Abodunrin
Omiyi, Winnifred Eghonghon
Onakpoya, Ruona Gloria
Te kenah, Eric Erefa
Uche, Augustina Ogechi
William, Jumbo Tonye

**COLLEGE: Natural and Applied Sciences**
**Department: Biological Sciences**
**(Microbiology)**

**Class of Degree: First Class**
Abia, Blessing S.
Adeyemi, Temitope A.
Tawo, Evelyn Kankun

**Class of Degree: 2nd Class (Upper Division)**
Amioku, Theresa Oviri
Izagbo, Precious Ify
Joseph, Victoria O.
Makoju, Ozohi E.
Nnadih, Ethel
Ogunsanya, Abisayo
Okonkwo, Amarahi
Ugwu, Chidinma
Umoren, Uduak U.

**Class of Degree: 2nd Class (Lower Division)**
Akporugo, Jessica B.
Aremu, Oluwafemi R.
Edolo, Yinliafa
Gbajumon, Adeyemi D.
Nwalla, Stella U.
Obisike, Amaran 1.
Okoro, Julia E.
Ubam, Modupe N.
Udoekong, Ruth Daniel  
Viko, Sumure John  
Wokeh, Kechinyerim

Class of Degree: 3rd Class  
Arigbogha, Maureen  
Dikedi, Edozie  
Fasalejo, Omowumi A.  
Nwokoma, Dorcas I.  
Obiora, Ngozi Tonia  
Ogbe, Tinu  
Ogbomo, Ivy Oghomwen

Department: Industrial Chemistry  
Class of Degree: 2nd Class (Upper Division)  
Oroghona, Obatarhe

Class of Degree: 2nd Class (Lower Division)  
Pepple, Dobor Chris

Department: Computer Science & Information Technology  
Class of Degree: First Class  
Aladi, Chioma L.

Class of Degree: 2nd Class (Upper Division)  
Abdul, Saheed  
Abubakar, Aminu Mukhtar  
Afolayan, Theresa Tinuola  
Akanbi, Adebola Vivian  
Akpan, Ifiok Clement  
Alabi, Aderonke  
Areghan, Akhere  
&Ejemiesegbe, Evuarere  
Ero, Esosa  
Esan, Abiola O.  
Etuk, Pamela Friday  
Garba, Abubakar Shehu  
Iroha, Onyinyechi M.  
Izuora, Adanna Jenifer  
Liadi, Omowumi Mariam  
Mustapha, Mohammed  
Nwokorie, Tochukwu I.  
Omoniyi, Ademola Isreal  
Oyarekhua, Irene  

Class of Degree: 2nd Class (Lower Division)  
Abdullahi, Ali  
Abel-Onyemuwa, Chinedu  
Abiodun, Temidayo O.  
Adeoye, Temitope  
Adewinbi, Adeyemi Akeem  
Adun, Omorogieva Curtis  
Amagbo, Emeka Gerald  
Amuko, Temitayo Esimaji  
Ayere, Obeahon  
Bassey, Ubongabasi Ekong  
Botu, Prince  
Chiboh, Christopher N.  
Chukwudebelu, Ifeoma  
Daniel, Rita Deinbofa  
Dannusa, Aliyu Mamman  
Erhunmwunse, Osahon K.  
Evbuomwan, Nehiz  
Gbarabe, Bobo Barihada  
Ihiere, Omoruyi Joseph  
Kemakolam, Kenneth  
Ladele, Seyi  
Mammah, Aminu Dan-Musa  
Mohammed, Mahmud C.  
Nnerukini Chimeka  
Obadina, Oluafemi E.  
Obienu, Nnaemeka  
Oduonye, Lotanna Hilary  
Oga, Okechi Charles  
Oji, Michael Chukwu  
Okeke, Chikezie I.  
Okodugha, Omohobhio  
Ololo, Esther  
Onyekweli, Tolisa  
Samuel, U. Briggs  
Shehu, Awwal Abba  
Sotonye, David Iyama  
Tadiodi, Akpevweoghene  
Takon, Anthony Nkang  
Temile, Eyimisan  
Toro-Sani, Ahmed
Ubini, Edith
Ugbaja, Ndubeze Robert
Umo, Nsikak Akaniyene
Usen, Asuquo Effiong
Watsilla, Joseph Hilary
Woluchor, Chimzi
Yunusa, Labaran Aminu

Class of Degree: 3rd Class
Agbonlayor, Patrick
Arabisola, Tamitope
Bisong, Bobby Owan
Olanitori, Ayodele
Umoh, Fidelis John

Department: Environmental Science

Class of Degree: 2nd Class (Upper Division)
Adjarhere, Rose Yewande
Ogunmoyero, Olatunji Francis
Somefun, Oluremi Ibitola
Uyebi, Gloria Efe

DEGREE ANALYSIS
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Class of Degree: Bachelor of Arts (French)  
1st Class Hons.  
Adegunle Gbemisola Benedicta

Department: Economics & Development Studies 
Class of Degree: 1st Class Hons.  
Obi Chinenye Linda  
Olayanju Opeyemi Sheriff

Class of Degree: 2nd Class (Upper Division)  
Adeniyi Adebosola  
Adeyemi Adeyinka Samuel  
Asuen Osamuyi  
Babalola Opeyemi Oladapo  
China Okoye  
Dawudu Hassana  
Duke Duke Bassey  
Ebute Wallace  
Gbadamosi Oluwaseun  
Ibrahim Jummai  
Ismaila Halima  
Kurah Alheri Nomdono  
Olajoku Folawiyo Kareem  
Okeke Kodili Vivian  
Onwughalu Oyinye Miriam  
Shittu Habeeb

Class of Degree: 2nd Class (Lower Division)  
Abujade Abiola  
Adebiyi Steven Adediran  
Adelakun Kelvin  
Ajayi Olayiwola  
Akande David  
Akinbode Olufemi  
Aku Jerry  
Amaonye Chukwuebuka  
Duniya Basa

Edun Bababode Tunde  
Ekienabor Oyakhilome  
Igboamaeze Nkiru  
Mbu Mark  
Mosindi Nkechukwuaga  
Mustapha Maryam  
Obaika Naomi Linda  
Ojo Oluwaladun  
Okeobuno Keziah Ngozi  
Okojie Adesuwa  
Okonkwo Chinenye Precious  
Okoro Ikuesiri  
Olajide Tolani  
Ologitere Misan  
Omomale Olorode  
Oni Temitope  
Orimiloye Omobolanle  
Osuntuyi Oluwaseun Samuel  
Salawu Temitope Ruth  
Shilong Philomena  
Usman Abdulahi Baba  
William-Ebi Imomoemi

Class of Degree: 3rd Class  
Ndionyema Tonye

Department: English 
Class of Degree: 2nd Class (Lower Division)  
Owolabi Modupe Omolola

Department: Geography & Regional Planning 
Class of Degree: 2nd Class (Lower Division)  
Ifaorumhe Samuel

Department: International Relations 
Class of Degree: 1st Class Hons.  
Chijoke Onyinye Clara  
Olorunfemi Osei Mercy  
Ukaria Samson Esther

Class of Degree: 2nd Class (Upper Division)  
Agogoh Oahimijie Linda  
Anyakpele David  
Ezeugo Chukwuebeka Gospel  
Igwegbe Chinwe  
Imafidon Osabuohien George  
Maduagwu Ugochukwu Moses  
Ogunwuyi Adetayo Philip
Omodele Atinuke Olubusayo
Onukwuru King Wenenda
Ovienria Akhere Augusta
Terwase Doose Mercy
Urevbu Egwono Sandra
Usanga Idara Mfon

Class of Degree: 2nd Class (Lower Division)
Adulphus-Jack Patience
Iwunze Chidinma Sandra
Jeneba Eloho Mary Mimi
Jimmy Michael Unwana
Marcus Ngozi Sonia Ruth
Nwokedi Ifili Charles
Ojeabulu Onosetale Eigbiwalu
Onaiwu Nosa John
Oriawo David Rizichi Richmond
Udeagwu MaryFrances
Umanah Victoria Akpan
Wratto Charles Kings
Yesuf Abosedee Habibat

Department: Mass Communication
Class of Degree: 1st Class Hons.
Ordu Rosemary Chinyere

Class of Degree: 2nd Class (Upper Division)
Adeusi Adejoke
Akpituren Bawo
Atabo Achille Bernard
Awodi Ruth
Ebuzoeme Ifeoma
Eleko Yejide Eyvonne
Haruna Favour Muniratu
Musa Jamila
Mustapha Ngango Amina
Nwokolo Ogoma
Ojeleye Omotola
Okon Ute Edet
Okonkwo Obiageli Cynthia
Okorie Fatima
Orisaya Omotola Olivia
Samuel-Atume Winnie
Ubaka Blessing
Uduak Elijah

Class of Degree: 2nd Class (Lower Division)
Adams Omawunmi
Adenubi Shola
Akinyemi Oreoluwa
Amos Bio Anabel
Asuelimen Ebiade
Ayansi Bigtown
Ememokumo Tokoni Joy
Fakayode Ifeoluwa
Odugbesan Thomas
Ogunsola Funmi
Olayinka Baruwa
Omo-Izurein Adeola
Sadiq Umar
Uzowuru Oluchukwu Peace
Yavbieri Esther Emuesiri

Department: Mass Communication
{Public Relations/Advertising)
Class of Degree: 1st Class Hons.
Atako Christiana Mbang

Class of Degree: 2nd Class (Upper Division)
Alabi Oluwatoyosi
Obhimon Akhigbe
Oboh Isimhemhe Stephanie

Class of Degree: 2nd Class (Lower Division)
Chile Kelly Nsirim
John Nkechi Jennifer
Ukatu Chidinma
Uluabuike Chizoba Francisca

Department: Political Science & Public Administration
Class of Degree: 2nd Class (Upper Division)
Daramola Sherifat Ajoke
George Levi Rosemary

Class of Degree: 2nd Class (Lower Division)
Akpononu Dickson Obinna
Aminu Chukwueyem Anthony
Anyankpele Dortimi
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Class of Degree</th>
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<tr>
<td>Ereboh Ebisinde Stephen</td>
<td>Sociology and Anthropology</td>
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<td>Francis Innocent Ine</td>
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<td>Jada Muhammed Suleiman</td>
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<td>Malo Ndu Obinna</td>
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<td>Numa Oghenerukevbe Daniel</td>
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<td>Class of Degree: 2nd Class (Lower Division)</td>
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<td>Obia Elu Charles</td>
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<tr>
<td>Department: Theatre Arts</td>
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<td>COLLEGE: Business and Management Studies</td>
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<td>Fakaisi Olubunmi Funmilayo</td>
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<td>Godwin-Chu Ochure</td>
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<td>Haruna Rukayatu</td>
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<td>Iwara Patrick</td>
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<td>Moses Olawale Babalola</td>
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<td>Nwaokoye Kingdom Onochie</td>
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<td>Odoro Adegboyega Oluwaseun</td>
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<td>Oghoh Jennifer Uche</td>
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<td>Ogunsina Florence Oluwasiike</td>
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<td>Okereafor Uche Princewill</td>
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<td>Okosun Linda Irenosen</td>
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<td>Okpokie Clementina Ochukomena</td>
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<td>Onyebetor Chinye Christabel</td>
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<td>Popoola Gift Modupe</td>
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Sota Etareri Onome
Udoh Nkereuwem Asuquo
Ugboh Ossai Azuka
Ugwu Benson
Uzoh Joseph Obinna

Class of Degree: 3rd Class Hons.
Jimmy Micheal Eseama
Olube Glory Mamaatoh

Department: Banking & Finance
Class of Degree: 2nd Class (Upper Division)
Ibezimalo Chiamaka
Mustapha Amina Mama

Class of Degree: 2nd Class (Lower Division)
Adamu Dauda
Aikhomu Hannah Itohan
Grant Weynmi Nello
Ikomoni Enita
Nkadi Bernard Ifeanyi
Oghieakhe Nicholas Oshiokpekhai
Okafor Margret Oluchukwu
Olayinwola Afolabi Idris
Oyemah Edna Oyemwen

Department: Business Administration
Class of Degree: 2nd Class (Upper Division)
Akeh Eunice Nkiruka
Akele Esosa Imarenakhue
Aliyu Danladi
Aliyu Mama Amina
Baruwa Olasupo Mojib
Bayode Olabisi Temitope
Edebiri Aghama Joy
Egesimba Peace Udoka
Ibhawoh Oseghale
Miebai Roseline Balkisu
Nnalue Ikenna Samuel
Odoro Adebayo
Ofodile Chiedozie Chijoke
Ogbonnaya Chibuzor
Okon Charles Asuquo

Okporokpo Uvietobo
Udoh Glory Sunday

Class of Degree: 2nd Class (Lower Division)
Abdullahi Hassan Adamu
Agbogidi Eguono Winifred
Aisuebeogun Jordan Isebohoje
Ajayi Bisola Adijat
Ajewole Aderyemi
Aluku Leroy Daniel
Boluwa Yotan
Dantata Saadina
Dye Wullie Markus
Ejemai Efe Oluwaseun
Ekhator-Obasogie Princess
Eletu Noah Afolabi
Ibhawoh Odianosoen
Idiage Azukaego
Ilodibe Chigozie
Kperegbeyi Oritsela
Mohammed Mukhtar Ade
Mojekwu Dozie
Noah Enaefe Prince
Nwaora Julian Emeka
Nwosu Ifeanyi
Oguji Roland Elochukwu
Olaniyi Ajibola
Omokaro Ezekiel Abiodun
Umole Etso Jennifer

COLLEGE: Engineering
Department: Chemical Engineering
Class of Degree: 1st Class Hons.
Adebimpe Aderinola Ibukunoluwa
Salami Deborah Omayoza

Class of Degree: 2nd Class (Upper Division)
Aderinto Adesola Oluwaseyi
Amaliri Obiageri Chinyere
Fashanu Omolayo Samuel
Offodum Chukwuka Dennis

Class of Degree: 2nd Class (Lower Division)
Achurefe Ruth Oghenetega
Akinwale Ajibola Mutiudeen
Nwaora Stephanie Chioma
Oguzo Anderson Chimaobi
Oleghe Osizemetic Leonard
Omatseye Alero Erhuvwuoghene
Ukaegbu Uchenna David

Class of Degree: 3rd Class
Folayan Adenike Doyinsola
Johnson Baribe-Eeba Sally
Mbaba Mmedara Ita

Department: Civil Engineering
Class of Degree: 2nd Class (Upper Division)
Nwokoma Chibuike Ugochukwu

Class of Degree: 2nd Class (Lower Division)
Faruk Hussein Fahad
Omoregie Marshal Osagie
Tanno-Whyte Otemu Patrick

Class of Degree: 3rd Class Hons.
Makama Michael
Obey Fabiyi Oreoluwa Olusola

Department: Electrical/Electronics Engineering
Class of Degree: 1st Class Hons.
Oghorada Oghenewvogaga

Class of Degree: 2nd Class (Upper Division)
Adekunmi Oloyede Abiodun
Amadi Hassan
Amosun Joseph Oyedeji
Awe Hilary Ekaonyewehe
Deolu-Ajayi Oluwaseun
Eke Eke-Abiayi Emmanuel
Etuk Dan Jackson
Fayankin Olumide Anthony
Mamman Abdulnasir
Odo Chukwudi Walter
Wobo Chinedu

Class of Degree: 2nd Class (Lower Division)
Agbobu Samora Machel
Ahmed Temitope Abdulmojeed
Bolaji Balogun
Ebigwai Armstrong Temofe
Eluma Gabriel Uchendu
Hart Reginald Idipinye
Imoh Joshua Idara
Lawal Olamide Fuad
Minaso Kalada Onengiye Joseph
Obikobe Ogonna Chibuzor
Obilomo Tolulope
Ogaga Akposio
Ogunbambo Leke Justus
Okere Gracewealth Chinwe
Onifade Sunday
Raji Basiru Opeyemi
Shosanya Olajide
Warkani Barka Haruna

Class of Degree: 3rd Class
Okoh Kingsley Obinna

Department: Computer Engineering
Class of Degree: 1st Class
Etuk Ekemini Jackson

Class of Degree: 2nd Class (Upper Division)
Agbonavbare Joy Oghogho
Egbetamah Onoriode
Mbelu Florence Onyinye

Class of Degree: 2nd Class (Lower Division)
Afiakure Daniel Effiong
Anaba Justice Ndubueze
Anene Ifeanyi Gregory
Ekunie Onyinye Gloria
Goin Joseph Kemebradikumo
Hameed Saheed Adeyemi
Igie Efeosa Moses
Odia Collins
Olawoye Kehinde
Orji Daphne Eziooma
Ozuzu Ugochukwu Chukwubuikem

Department: Mechanical Engineering
Class of Degree: 2\textsuperscript{nd} Class (Upper Division)
Edentekhe Effiong Abang
Ejekwu Ichebadu
Ighodaro Osamuyi Joseph
Ozoemena Nonso Emmanuel

Class of Degree: 2\textsuperscript{nd} Class (Lower Division)
Adogu Obiadogu Chinedu
Akiode Alexander Olusegun
Ekanem Ubong Enim
Nwajei Dinma Nathaniel
Udosen Abasifak Ndifeke
Ugo Ugoamaka Cosmas

Department: Petroleum Engineering
Class of Degree: 2\textsuperscript{nd} Class Hons. (Upper Division)
Abanida Oluwaseun Amanda Adedolapo
Giwa Abdulkabir Kayode
Kinoshi Abimbola Omotayo
Ogbeide Imuetiyan Deborah

Class of Degree: 2\textsuperscript{nd} Class Hons. (Lower Division)
Finama Samuel Israel
Lawal Oluwafemi Qudus
Okafor Uche Adulphus

Department: Food Science & Technology
Class of Degree: 2\textsuperscript{nd} Class Hons. (Lower Division)
Nyongessien Ekaete Asuquo

COLLEGE: Health Sciences
Department: Biochemistry
Class of Degree: 2\textsuperscript{nd} Class (Upper Division)
Adeseye Adebowale Adebayo
Anana Onyiye Jeneveive
Babalola Oluasegun Idowu
Ebigwai Evarista Ayodele
Funsho-Ako Joseph Kayode
Okhomina Adesuwa
Waliu Olamide Asimowu

Class of Degree: 2\textsuperscript{nd} Class (Lower Division)
Adaramoye Oyebowale
Adegbiyi Kemi
Akinbobola Akinnola Juliet
Akinmoladun Oladotun
Akpoveti Isaac Junior
Ambali Hadeezah
Azubuogu Chukwunonso
Dike Amaka Dorathy
Ehikhuemhen Ogbole Malcom
Ehiremen Oziegbie Israel
ELohor Evarista Odebola
Ezeanya Chika Maureen
Nwaokaro Aquila
Obialo Nelson Chidozie
Ogidigben Karen Onome
Okafor Charles Chika
Okere Obinna
Olornfumi Ayodele Funmi
Okoloba Azibanene
Sowande Oyinkansola Funmilola
Udeogu Chiamaka

Class of Degree: 3\textsuperscript{rd} Class Hons.
Eboigbe Tokunbo
Igbede Toni Igbede
Odjewedje Oborakoren

School of Clinical Medicine
Degree: MBBS
Adebayo Opeyemi Mayowa
Adedeji Jesutomiwo
Adedeji Jesutomiwo
Adediran Cornelius Ademola
Adeniran Kolawole Olaniyi
Aderiye Odunayo
Aderoba Babjide Oladapo
Agbonlahor Cynthia Edugie
Agho Maxwell Amenze
Aghoghovwia Esther
Agulonu Ikechukwu Chukwudi
Ajagbe Adekunle Oluwasanmi
Amafor Uche
Amakom Nneka
Aribisala Adebusola Opeyemi
Arimah Osita Tobechukwu
Atabo-Peter Ojonigwu Dadi
Ayodeji Ayowamiri Deborah
Ayuk Sam-Mosley Asam
Azinge Eluemuno Afumodo
Bakare Tolulope Kudirat
Bankole Olugbenga Abdulrafiu
Boyi Zakari
Chukwuma Christian Chijioke
Deji-Odutola Bunmi
Derikoma Obaraboye
Dimaro Felix Boye
Ebigbeyi-Diagi Beatrice
Ekwuazi Hyginus Okelue
Emuren Doubra Perekeme
Etuknwa Ema Bassey
Ewah Uwezele Zelda
Ezeamah Ikenna Franklin
Ezeude Obiageli Castille
Faro Kudirat Oluwakemi
Ibeme Ikechukwu Walter
Ibhawoh Ejemen
Ihianle Imade Olive
Ikharo Jaleelat Imoitseme
Imgbi Gilbert Woripre
Iyase Anwuli Joy
Komolafe Oluotimi Olufunto
Lawal Basir Opeyemi
Maduemezia Bialosa
Mbamah Adaobi Elizabeth
Nnaegbuna Virginia Chioma
Nwaneri Nnamdi Blaise
Nwaokoro Ewere Rosemary
Nwogbo Amy Adaora
Obi Esohe
Odiah Uwaye
Ogbanje Theresa
Ojike Ukaoma
Oke Oluwaseun Kelvin
Okpaleke Helga
Okundaye Iyore Rose
Okwuagwu Nkiruka Ashioma
Olatan Sunday Oladele
Olaniyi Olatayo Jethro
Oloto Omogbare Moses

Olumeko Olayemi
Oluwadare Oluwafunmilayo
Omatstone Ama Margaret
Omatstone Anthonia
Omidiji Oladotun Gideon
Omotosho Yejide Adebola
Omowaye Toyin Atinuke
Onuoha Kelechukwu McClement
Ormormhila Joy Isomianwu
Oyebola Eniola Babjide
Oyelami Bolaji Ibukun
Shaba Olurotimi Oladimeji
Soyemi Adeola Mojisola
Uraihi Obiageli Nuala
Uwajeh Kenneth Nnamdi

**Department: Physiology**

**Class of Degree: 2nd Class Hons. (Upper Division)**

Ajao Oluwatosin Temitope
Oghogholosu Rukevwe

**Class of Degree: 2nd Class Hons. (Lower Division)**

Akpan Ubong Asuquo
Izagbo Adaeye Irene
Okoeye Chika Sylvia
Oladejo Eyitayo Olawunmi

**COLLEGE: Law**

**Class of Degree: 1st Class (Hons.)**

Briggs Elijah

**Class of Degree: 2nd Class (Upper Division)**

Adegboyeye Adedamola Funke
Adegor Okiemute
Agugoesi Victor Ikem
Ajayi Alfred Agboola
Ajiboye Mary Foluke
Aren Marielouise Fehun
Benjamin Jennifer Chizoba
Ekong Imaikop Ido
Enyong Emma Ita
Ezeajoku Chiediebere
Gabriel-Whyte Aladokiyi
Itabiyi Arnoke Olayinka
Jaja Faithful Tamunotonye
Kay-Mirrin Sophia
Lawson Nitoni George
Leleh Chinmma Blessing
Nwafor Nnenna
Obadon Efeomo Adejoke
Obaremo Olawale Oriola
Okon Ann
Okoroafor Chinedu
Oti Charles Nnaemeka
Sulaiman Olusegun Rashidat
Uchay Beatrice Oroma

Class of Degree: 2nd Class (Lower Division)
Adaba Anthonian
Ademujimi Abimbola Joy
Adeniyi Odili-upo Adeoye
Adetayo Toluwalope Ruth
Adio Azezat Temilade
Agwu Ogbonna
Ajakaiye Christy Imoleayo
Akaya Junior Charles
Akindele Damilolu Akanbi
Akpofoye Obukwom Eyajife
Alagoa Carrington Alagoa
Amaxo Ibiere Bongekile
Amosun Vivian Oyemike
Anaba Glory Excel
Anunam Chinweoke Emmanuel
Atilade Faramade
Avielele Ama Annette
Ayodele David Mosebolatan
Azuka Solomon Chibuzor
Belo-Osagie Ekinadesadat
Benson Ubah Tochukwu
Bomari Ibiton Edwin
Boufini Yinlayefà
Daufa Mary-Ann
Daze Anita Simret
Dore Ayeleristino
Ehiemere Akobundu
Ejideki Doris Chioma
Eribo Amen
Etit Idongesit
Ezeagu Ogechukwu
Fagbamila Boladale
Gbefwi Baba Keturah
Gbogbi Oritsegbube
Ibeke Cecily Uzunma
Idebolo Lynda Esther
Ikemenjirna Isotein Anne
Inyangabia Utibe Moses
Itiat Emmanuel Comfort
Iyi Chizoba Victoria
Kperegbeyi Weyinmi Edman
Momoh Loveth
Muhammad Habiba
Njemanze Nneoma Onyinye
Nwaoboshi Ifeanyi Lilian
Nweke Stanley Obiora
Nwokolo Ifeyinwa Chinwe
Nwuche Benjamin
Nyongessien Asuquo Asuquo
Obamoye Rashidat Banke
Ofeimun Ese
Ogor Onome
Ogunbambo Olajide Odubiyi
Ogunshakin Benard Temidayo
Oharisi Jeremiah Avenaghogho
Ojenikoh Augustina
Okelue Ogechukwu
Okonkwo Anita Nonye
Okorie Ojiugo
Okoronkwo Adaeze
Olabisi Ruth Olufunmilayo
Olajide Anthonia Ifeoluwa
Olaleye Omowunmi
Olapke Ovie Tobi
Olatigbe Diana Olakitan
Olowokere Oluwatoyin
Onwe Vera Ndidiamaaka
Onyebinma Bright Chimezie
Opuiyo Linda Asikyecofor
Oranika Jennifer Obianuju
Orimoloye Gbemisola
Osokolo Willie Nnamdi
Osuigwe Justin Obinna
Osuji Ebere
Owoyemi Omotola Temitope
Oyewo Oyenike
Soetan Toluwalope Olamide
Tebepah Gbanaibolou
Tunyan Deinyefa

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Ubaka Loveth Onuwa
Udodong Sam Edikan
Udoh Ann-Sophie
Ue-Bari Queen Letor
Uffort Joy Idara
Ugwu Chukwudi
Usoh Abieyuwa Stephanie
Utchay Jim Hanachor
Uzor Samuel
Woke Ann Nkechi
Wokoma Tina Chizi

COLLEGE: Natural and Applied Sciences
Department: Biological Sciences
(Microbiology)
Class of Degree: 1st Class Hons.
Ajuwon Oluwafemi Adebayo
Oyeleke Olarenwaju Benjamin

Class of Degree: 2nd Class (Upper Division)
Adejo Olatunde Adebola
Agumor Tina Eloho
Akosile Priscillia Onaopemipo
Amune Omine Peace
Anokwu Joseph McHuges
Awak Ndueso Anietie
Coker Efunyinka Abosede
Egharevba Joy Asiriuwa
Ejeh Iyeoma Faith
Ekunie Ogeheukwu Francis
Ezeonwu Henrietta Chiaka
Jayeoba Oluwakemisola Lydia
Johnson Elizabeth Ubong
Kamoju Zainab Omolola
Nduonofit Mmaeka Diana
Nzomisaki Lulu Pwanedto
Obialo Chiazom Prisca
Okafor Ifenyiwa Uzoamaka
Olatinwo Folake Aminah
Olawoye Folasade Itumoluwa
Omaye Mercy Ufeda
Onyeobi Ogom Jane-Valere
Siyanbola Aminah Oyenike
Timothy Mary Monday
Umembia Ugochi Lynda

Class of Degree: 2nd Class (Lower Division)
Adebiyi Funmilayo Bolatito
Adewunmi Yetunde Mary
Aina Olumuyiwa Oluwole
Akinwuwa Clinton Babatunde
Amuebie Ada Stephanie
Anyene Jaluchi Nchedo
Bright-Omoruyi Cynthia Isoken
Ehotemen Cyril
Eboikpomwen Jones Osaze
Eniolorunda Michael
Gbujie Fortune Iruemud
Hadome Ndidi Rosemary
Ibe Joy Onyerinma
Ikeji Jane Nwabugwu
Isok Ajulu
Kolawole Desmond Folorunsho
Megwalu Mary Obianuju
Nwosu Jennifer
Obi Chioma Wendy
Odighrhor Tega Joy
Odunlami Charles
Okechukwu Doris Chinyere
Okwu Dearie Glory
Omuta Onome Ajiriohene
Osanyinbi Tola Moyosola

Class of Degree: 3rd Class
Bosah Nnamdi Gerald
Oguchi Stephany
Oyeleke Mayowa Olasunkanmi

Department: Environmental Science
Class of Degree: 2nd Class (Upper Division)
Adedeji Ayodele Ademola
Akintunde Olarenwaju Olu

Class of Degree: 2nd Class (Lower Division)
Akanmu Akinola
Alao Fatima
Odunayo Inumudun Tolulope
Ogunrinde Yewande
Okojie Osaze

Department: Chemical Science
Class of Degree: 2nd Class (Upper Division)
Enatoriwa Ramson
Nwaulu Chima

Class of Degree: 2nd Class (Lower Division)
Davis Tonye Dumo
Ekojikoko Ochuko John
Ekwueme lyke Johnson
Emelogu Evelyn
Ezeamaka Ifeanyi
Ezeemo Ifeanyi
Nwosu Nnamdi
Ogbuefi Batholomew
Oniovosa Odili

Department: Computer Science & Information Technology
Class of Degree: 1st Class Hons.
Odi Anwuli Alexandra

Class of Degree: 2nd Class (Upper Division)
Agboola Aisha Faderera
Aighobahi Anthony Efosa
Aluko Babatunde Funsho
Balogun Olatayo Halima
Chinwuko Mcdel
Iherue Nancy Nonyerem
Maigari Tsenlat Elizabeth
Ogbide Aizeni Toritesju
Ogedegbe Tina
Okosun Jude
Olarenwaju Adeola Yinka
Omogbomeh Julian
Sekoni Kehinde Ikeoluwa
Umolu Ikechukwu Paul

Class of Degree: 2nd Class (Lower Division)
Abuah Francis
Adebowale-Sheriff Atanda
Adelaja Olusegun
Adigwe Daniel
Awote Babatunde
Brambaifa Christoher
Chuku Chimeka Melvin

Ejakpovi Kwesi Daniel
Ejeke Tobechukwu
Fidel-Anyanna Iremise
Ibe Nzubechukwu Onyebuchi
Idedia Pascal
Ihejirika Victor
Ikpa Henry Kelechi
Imevbore Victor
Jinadu Wuraola
Kaura Joshua Reuben
Kushimo Bolaji Faruk
Lawson-Jack Splendor
Nwokolo Kenneth
Nwugo Martins
Obot Ubong Obot
Oferiofe Ofovwe Jude
Ogar Amokeye Hatoma
Okpan Sandra
Umeize Tochukwu Michael
Umo-Odiong Asuquo
Usman Jamilu Yasin

Class of Degree: 3rd Class
Atolani Esther
Beka Nathan Ebewo
Gini Chigozie Peter
Nweke Alloy Fred Chetta
Osu Nwabudike

Department: Agric-Economics & Extension
Class of Degree: 2nd Class Hons. (Lower Division)
Aghawana Azubuike Abaja
Benson Adetokunbo Musibau
Dahiru Awaisu Abdullahi

Supplementary Graduation List
College of Law
Class of Degree: 2nd Class (Upper Division)
Oguji Robinson Ugochukwu

Class of Degree: 2nd Class (Lower Division)
Davou Dakwak
Ekurume Nyenrovwo
Eyisi Gentle Emeka  
Ezenwedeh Moses Chigozie  
Ezenuba Stephen Ebere  
Ikpeazu Mimi Ifeoma  
Kester John Adejumo  
Mekoma Chinye Angela  
Nabena Kimikeyi Richard  
Negbe Nebor Andrew  
Ogudebe Francis Uchenna  
Ojukwu Eze  
Oyeneye Oluwatosin Malik  
Soji George Teniola  
Talabi Adekunle Suleiman  
Ukaegbu Kingsley Ezechimere  
Ukaegbu Rachel Okpueze  
Ukueku Kevwe  
Ungbuku Okpoundu  

William-Ebi Sonia Funere  
Inyang Blessing  
Okolo-Obiajulu Ogechukwu  
Lashman Anthonia Banke  
Ojukwu Patience Ifeoma  
Ogunsino Toluleye  
Benson Adeyewade Oluymisi  
Udo Nsikak Young  

**Department: Accounting**  
**Class of Degree:** 2nd Class Hons. (Lower Division)

**DEGREE ANALYSIS**

<table>
<thead>
<tr>
<th>COLLEGE/DEPT</th>
<th>1ST CLASS</th>
<th>2ND CLASS UPPER</th>
<th>2ND CLASS LOWER</th>
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<th>TOTAL</th>
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<td><strong>ARTS &amp; SOCIAL SCIENCES</strong></td>
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<td>iv. Geography</td>
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<tr>
<td>v. International Relations</td>
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<td>vii. Political Sc. &amp; Public Admin</td>
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<td>iii. Business Administration</td>
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<td>vi. Petroleum Engineering</td>
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<td>vii. Food Science &amp; Technology</td>
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</tbody>
</table>
HEALTH SCIENCES
i. Biochemistry  -  7  21  3  31
ii. Medicine  -  -  -  75
iii. Physiology  -  2  4  -  7
LAW  1  25  117  -  222
NATURAL & APPLIED SC.

i. Biological Sciences (Microbiology)  2  25  25  3  55
ii. Chemical Science (Industrial Chemistry)  -  2  9  -  11
iii. Computer Science & Info. Technology  1  14  28  5  48
iv. Environmental Science  -  2  5  -  7
vi. Agric-Economics & Extension  -  -  3  -  3
Total  17  201  417  20  729

LIST OF GRADUATING STUDENTS – 2009/2010

COLLEGE: Arts and Social Sciences
Department: Economics & Development Studies
Class of Degree: 2nd Class (Upper Division)
Anorue Lorah Ugochi
Aromire Richard Hakeem
Edema-Sillo Orighomisan
Efegi Tamarauden Yefa Karen
Ekeng Edung Nsa
Enwo-Igarwey Idume Jack
Ezudo Chukwunonso Humble
Gukas Retan Irene
Ijabiyi Kehinde
Nwali Adanma
Obienu Munachisom Chinedu
Olawunmi Opeyemi Daniel
Ossai Rosita Chimuanya
Salami Ahmed Eniola

Department: English
Class of Degree: 2nd Class Hons. (Lower Division)
Lajuwomi Olayemi Sarah

Department: Geography & Regional Planning
Class of Degree: 2nd Class (Upper Division)
Ayeni-Ijabiyi Bisola

Ihanuwaze Osemwonyemwen Helen
Isang Inemeno Udo
Iyai Calista
Maje Kamal Abdullahi
Moses Moses Aniefiok
Nkwonta Stephinie Adaugo
Obot Nsidibe Ubong
Odeh Joy
Oduah Cynthia Nonye
Ohanka James Uchenna
Okonkwo Afoma Linda
Onietan Oluwatosin Divine
Onuoha Chinagorom
Osaji Onyinye Emmanuel
Otaru Joseph Olusegun
Otukiti Wuraola Feshi
Udegbulem Ukamaka Ivy
Umeh Ikenna David
Akinbode Oludolapo
Kanu Chiijioke
Shonibare Ibrahim Adebola
Class of Degree: 2\textsuperscript{nd} Class (Lower Division)
Arimah Oseloka
Eruemulor Stanley

Class of Degree: 3\textsuperscript{rd} Class Hons.
Nwoko Nbanefo Chinedu

Department: International Relations & Strategic Studies
Class of Degree: 2\textsuperscript{nd} Class (Upper Division)
Allison Valentine Opuene
Awah Blessing Eteakamba
Erika-Okoye Amaka Laura
Garnwva Naomi Hadiza
Gidado Salim
Leleh Chinonyerem Oluchukwu
Nwaire Sekina Chioma
Obot Sifton Enefiock
Odheisa Nneka Jayne
Onuoha Ugo Elizabeth
Sadiq Shukurat Omoymeni
Ukut Edidiong Ebong

Class of Degree: 2\textsuperscript{nd} Class (Lower Division)
Aghahowa Noghama
Akingbule Omotayo Oluwafemi
Alfred-Ugbenho Tarifaghe
Ayodele Oluwatosin
Emili Ifeyinwanina
Odia Marian Osakpolor
Oduah Jennifer Awele
Okafor Ogechukwu Maryrose

Rufai Adenike Rukayat
Umeh Chukwunonso John
Usman Ufedo Queen

Class of Degree: 3\textsuperscript{rd} Class Honours
Akande Saheed Olajide

Department: Mass Communication
Class of Degree: 1\textsuperscript{st} Class

Nnabuihe Chukwunonso Chukwuagozie
Okeke Olivia Ginika
Umoru Hawat Atinuke

Class of Degree: 2\textsuperscript{nd} Class (Upper Division)
Adebisi Anita Grace
Adekunle Adenihun
Adeyemi Omotola Bamidele
Bamidele Adebanke Olamide
Chiazor Miriam Ekwi
Dada Akinwale Oluwatosi
Dosunmu Oluwaseun Ashake
Egonu Pamela Chizoba
Egure Ayuva Bethany
Esiekpe Emuobonuive
Evuarherhe Cynthia Eseoghene
Izagbo Obiageli Laurene
Kierian Nnamdie Udo
Kuye Yemisi Debbie
Mustapha Aisha
Oloyede Mary Vivian
Otuya Uche Sandra
Samuel Ibitubowarigbem Idaerefa-A
Ulam Jacqueline
Urang Hephzibah Mijana
Vincent Jaiyeola Anike

Class of Degree: 2\textsuperscript{nd} Class (Lower Division)
Agori Elohor Judith
Bonus Okpekume Wombu
Edun Folarin Adeyinka
Ejakpovi Edirin
Enyong Uyiabasi Mfon
Obomeile Oshoke Bilikisu
Aduwa Ogigbaen Ehiige
Okotie Eyituoyo Abraham
Okpehior Joseph Ogismende
Olaleye Samson
Omo-Izirein Kofoworola
Otuogha Austin Mathias
Umar Nuru Abdualhi
Uweh Rose Ekpo
Department: Political Science & Public Administration
Class of Degree: 1st Class Hons.
Adeseun Aderonke Taiwo
Anyaeegbu Ezekwesiri David

Class of Degree: 2nd Class (Upper Division)
Ihaza Folorunsho
Ikegwuru Nyebuchiba Noble
Imafidon Ehimwenma Michael
Mbonu Chiemeka
Okoye Godwin
Omikunle Yewande Lizzy
Osaigbovo Doris
Oyaje Joan Oyigenem
Ulom Tina Damilola

Class of Degree: 2nd Class (Lower Division)
Amogu Nnamdi Oke
Dimgba Kalu
Edim Ekong Edet
Elegushi Falilat Oyetosin
Erukeme Kinoy
Igbinedion Enoma Emmanuel
Lazarus Erepamo
Musa Abari Adams
Nkenchor Chika Onome
Obareki Stanley
Oduoye Babatunde Gabriel
Okojie Prisca
Onyegbunwa Moses Nnamdi

Department of Sociology & Anthropology
Class of Degree: 2nd Class (Upper Division)
Imoudu Monica Omokore
Nnaji Chikadibia Catherine
Ogunnaikye Damilola
Seghosime Hauwa Abdullah

Class of Degree: 2nd Class (Lower Division)
Abomeile Alasa
Yau Ahed Suleman

Department: Theatre Arts
Class of Degree: 2nd Class Hons. (Upper Division)
Orieke Ebruphio Blessed

Class of Degree: 2nd Class (Lower Division)
Benson Uche Okafor
Dick Chinyere

COLLEGE: Business & Management Studies
Department: Accounting
Class of Degree: 1st Class Honours
Atu Gina Oghogho

Class of Degree: 2nd Class (Upper Division)
Abujade Olawande Nana
Akande Olufunke Kafayat
Akinpelu Damilola Ayodele
Aliyu Saudatu
Atu Vivian Osahenoma
Eheduru Ikenna Chukwuma
Enegbe Omas Precious
Ezennia Okwuchukwu Georges
Iheanacho Adaeze Ogomegbunam
Ijabiyi Taiye Johnson
Ikpeme Daniel Bassey
Jimoh Osigwe Jafaru
Nwokoro Emmanuel
Offodum Kenechi Kingsley
Okafor Lilian Ogechi
Onwe Kingsley Chikezie
Ormormhila Emoshokheme Victoria
Otse Anthony Momoh
Raji Sadiq Ademola

Class of Degree: 2nd Class (Lower Division)
Adesote Adetoun Adeola
Aisabor Yvonne
Balogun Owoola Olatomiwa
Egede Richardson Nwakaegho
Ikiriko Iyeregote
Imorame OsWeromo Valentina
Irikefe Jude Uruhuke
Kafiya Philip Ishaku
Obatete Ogheneovo Russe
Odia Patience Iziegbe
Okougbo Isi Benedicta
Olawuyi Oyenike Zaharadeen
Spiff Ndubisi Israel
Tobin Fabiawari Young
Yingi Kemepade
Zubair Tauheed

Department: Banking & Finance
Class of Degree: 2nd Class (Upper Division)
Akhere-Ugbesia Omonigho
Jimmy-Michael Emem

Class of Degree: 2nd Class (Lower Division)
Akhamie Ochuwa Princess
Japhet Mwaniya Gajere

Class of Degree: 3rd Class Honours
Ojei Alero Chiedu

Department: Business Administration
Class of Degree: 2nd Class (Upper Division)
Adekanola Bisola Silifat
Aitonje Obokhai Charles
Akindunbi Oluwatosin
Ale Oluwayemisi Esther
Amanam Delight Uduak
Atanda Sukurat Abisola
Avishigh Edward
Bolarinwa Adedayo Kudirat
Esivbekpe Gloria Akpeme
Famutimi Abiodun Abayomi
Ijaluwoye Yetunde Tracy
Nwamadi Chijioke Prince
Odike Koosy
Oni Adebisi Kafayat

Class of Degree: 2nd Class (Lower Division)
Afimoni Oghenerouna Solomon
Andu Adeedeji
Anene Pinky Ogonna
Anorue Chinedu
Arabo Usman Abubakar
Arenyeka Fred Oludewa
Boyie Gina
Eghobamien Omoyewenso Sophia
Ethio Henry Chibita
Ejumegjowo Martins
Eka Uduak Usen
Emdin Morenike
Emioma Christy Chibuzor
Emofurieta Irorome
German Osahenrumwen Agbon
Ibe Chukwunonso Chibuike
 Ibhe Iyangbe
Idehen Osagie
Igbinedion Igbinoso
Jegede Temitope Shina
Lawal Ayodele
Lawal Opeyemi Rukayat
Mbaeri Cyril Devante
Muogbo Josiah Chike
Odafen Faith Edeghonghon
Ogbodo Udoka Allen
Ogiemwonyi Osasu
Okokon Michael Bassey
Okonji Joseph
Omisade Oluleke
Onwualia Nanemeka
Orji Somotochukwu
Oterheri Lord

College: Engineering
Department: Chemical Engineering
Class of Degree: 2nd Class (Upper Division)
Aderibigbe Ayodeji Oluwasegun
Ekemam Stellar Amauche
Class of Degree: 2nd Class (Lower Division)
Ezeigbo Confidence Ozioma
Jemegbe Weyinmi George
Obi Uchechi Temisan
Okeke Ngozi Blessing
Ukah Brian Ukachukwu

Class of Degree: 3rd Class
Ekanim Unyime Michael

Department: Civil Engineering
Class of Degree: 2nd Class (Upper Division)
Enidom Emmanuel

Class of Degree: 2nd Class (Lower Division)
Akhionbare Osaretin Gabriel
Sarumi Aderibigbe Bashir

Department: Electrical/Electronics Engineering
Class of Degree: 2nd Class (Upper Division)
Evbomwan Kenneth
Ojo Kehinde Oladapo
Oladejo Jumoke Mojisola
Osagie Franklin Iyobor
Sekoni Taiwo Ifeoluwa
Tasie Marshal Obinuchi

Class of Degree: 2nd Class (Lower Division)
Amazu Chukwudubem Onyekachukwu
Etuk Ubong Solomon
Ezemegwara Nzube Arinze
Jimoh Rafiu Onimisi
Joseph Jide Steven
Menkiti Stephen Chukwuebuka
Njoku Michael Chijindu
Nwabunike Chukwuemeka
Okurumeh Onome
Olowu Oluwarotimi Kolawole

Department: Computer Engineering

Class of Degree: 1st Class
Okonye Kachikwu Benedicta
Ulasi Benjamin Osora

Class of Degree: 2nd Class (Upper Division)
Ajose Taiwo Akinwale

Class of Degree: 2nd Class (Lower Division)
Imiruaye Odafe Alfred

Department: Mechanical Engineering
Class of Degree: 1st Class Hons.
Olufade Adesola Oluwasijibomi

Class of Degree: 2nd Class (Upper Division)
Afabor Eriesiri Eguonoroghe
Ofonagoro Marty Chibuike
Popoola Olusegun Kehinde

Class of Degree: 2nd Class (Lower Division)
Adekale Joseph Adebayo
Anunam Hilary
Coker Oluwagbenga Emmanuel
Karibo Michel
Obaika Stephen
Okoko Ifeanyi Peter
Tikpa Ebipre Benedict

Class of Degree: 3rd Class Hons.
Akinyuwa Vincent Akinsanmi
Anyaso Chukwueloka Onyema
Eriyamremu Winston Ogenemarho
Itepu Pullen Kennedy

Department: Petroleum Engineering
Class of Degree: 2nd Class Hons. (Upper Division)
Jimoh Oladipo Bankole
Umejuru Victoria Akuchukwu
Class of Degree: 2nd Class Hons. (Lower Division)
Ekienabor Efe Marymagdalene

COLLEGE: Health Sciences
Department: Biochemistry
Class of Degree: 2nd Class (Upper Division)
Adefisoye Moshood Abiola
Agbonmwanwolor Oghogho
Orji Ngozi Stella
Ukaonu Chibueze Benjamin

Class of Degree: 2nd Class (Lower Division)
Abah Victor Nnamdi
Abubakar Teslimat Efua
Adarerhi Nicholas Awersosuoghene
Esinkumo Allen Williams
Etok Ekpenyong Okokon
Fasidi Oluwadolapo Taye
Inyinbor Charles
Ononuju Njideka
Osuamkpe Maudline Efai-Vie
Pedro Babatunde Ishola

Class of Degree: 3rd Class Hons.
Adetosoye Adedayo Adeotan
Ogunsuyi Olamilekan

School of Clinical Medicine
Degree: Bachelor of Medicine and Bachelor of Surgery
Adebayo Fisayo Grace
Adelugbo Busayo
Adekanmi Rukayat Adebimpe
Adeleye Aderonke Omolara
Adigun Adebowale Abbas
Adio Folashade Sekinat
Ajanbi Uvie
Agu Chinelo Anuoluwapo
Agu Chukwuka Marcus
Aina Olujimi Olusola
Ajayi Ayotolu Olubisi
Akhere Kingsley
Akpan Ekemini Celestine

Alagbe Olusola Ayodele
Alale Bukola Rachel
Alale Toyin Iyabo
Alele Faith Osaretin
Amrasa Anthony Okehoghene
Andy Imaobong Eno
Anyamele Jane-Frances
Archibong Atim Okokon
Arhere Ejiroghene Pauline
Aria Enefo
Awofeko Eyitayo Olusegun
Awolowo Abayomi
Azubuko-Udah Grace Onyemerekeya
Bada Temidayo Oluwaseyi
Bakare Sadiat Anita
Chialu Chiijioke Doris
Chibuzo Nwakaku Cynthia
Doherty Victoria Kikelomo
Edeh Ifeoma Miriam
Edi Vivien Mokuu
Ejemighaye Victor Kogoro
Emenogu Darlington Ndubisi
Enebi Jummai Enore
Eremutha Theodora Aghorhor
Esieke Kamaro Louis
Essien Ifiok Ekemini
Essien Seinyenede Sunday
Evule Chinonye Lawson
Eze-Ajoku Ezinne Adaeze
Fasaanu Ayodeji Nelson
Fokoblab Augustine Arthur
Hassan Fahd
Idanwekhai Maureen Anikpe
Igbinomwanhia Osarodion Osa
Igwilo Ihuoma Aadaeze
Igwilo Ugonnaya Ugochinyere
Ihennyen Isibakhomen Anthonia
Ikedum Gerald-Curtis Kezie
Ikhifa-Unuane Ehinor
Ikwuni Rita Ifeanyichukwu
Iria Sandra Chika
Jobarteh Mansally Folorunso
Morakinyo Elizabeth Tomilola
Ndianefo Genevieve Chinyerendu
Nello-Piserchia Annette
Njoku Ebubechi Chinwe
Nkuche Chijindu
Nmoye Ebere Patricia
Nwaiwu Chidinma Chisaraokwu
Odiachi Helen Isioma
Ogunsan Ayomide Temitope
Ogunrinde Tolulope Adeola
Ojo Adebowale Olusegun
Okafor Nnaemeka Chibuike
Okekumata Isimenmen Tiwalola
Oladogba Olumuyiwa Michael
Olu-Ibukun Temitope Bolanle
Olu-Ibukun Temitope Bolanle
Omega-Njemnobi Chioma
Onajobi Eniola Ayisat
Onuoha Onyinyechi Choice
Oruche Chinonso
Osibogun Olatokunbo
Otsenye Ogbene
Otty Ngozi Ijeoma
Owoeye Oladoyin Omolabake
Owoi Justice Tamunomiebaka
Samuel Imaobong
Soyemi Adetoun Oluwasola
Sulaimon Ifeoluwa Oluwatosin
Tabowei Lilian Ebiye
Uhabukoh Uchenna Chibueze
Uzozie Adaeez Vivian
Wosu Chimenum Wordu
Yusuf Halima
Ziwortin Christiana Albert

Department: Nursing
Degree: Bachelor of Science (Nursing)
Class of Degree: 1st Class Hons.
Ogbebor Sarah Osamudiamen

Class of Degree: 2nd Class Hons. (Upper Division)
Aina Rachael Omolola
Ekanem Jane Ndarake
Ekundayo Roselyn Iyabo
Oke Feyisayo Gloria
Sulaiman Yetunde Ayomide

Class of Degree: 2nd Class Hons. (Lower Division)

Adedapo Adesola Bosede
Adeyemi Olubunmi Mary
Addubiaro Ibiyinka Ruth
Ajisola Olayinka Caroline

Department: Physiology
Degree: Bachelor of Science (Physiology)
Class of Degree: 2nd Class Hons. (Lower Division)
Alonge Oluwasegun Richard
Osaigbovo Lovely

COLLEGE: Law
Class of Degree: 1st Class Hons.
Denkemefa Godfrey E. Ebikedoumene
Nanakumoh Owen C. Abode
Okeke Chika Edwin

Class of Degree: 2nd Class (Upper Division)
Adebusoye Adetoyosi Oyinkansola
Adefuye Joshua Afolabi
Adelake Obaloluwa Olufemi
Aina Olutola Oyewole
Ajao Temitope Tolulope
Akinde Ayomide Oluwabosula
Akinkurolere Oluwaseun Joy
Amoussa Olawale Shakoor
Atewologun O. Moromoyo
Awojobi Falilat Adeola
Bakare Bosede Alice
Bamigbola Ayodeji Olatunji
Bamisaye Oluwatoyin Oluwaseun
Binlam Timya Patience
Edorhe Omozefi Sandra
Erhonsele Omonigho Ivie
Haruna Ene Rita
Lawani Oluwafunke Olanireti
Nwangwu Anita Onyebuchi
Obi-Adigwe Rhoda
Ogbeleje Chineze Ada
Ohwo Flora Ovonimo
Ojo Taiwo Oladipo
Olaopa Opeyemi Foluke
Ollor Obariakasemi Ekoate
Onwuna Joy Anwulika
Otisi Chidinma
Parieso Bushirat Titilope
Salawu Titilope Olubunmi
Samuel Sarah Oluwatobi
Williams Esther Karina

**Class of Degree: 2nd Class (Lower Division)**

Abiodun Temitope Chelsea
Achebe Shantell Amaka
Adebanjo Adetunji Babafunke
Adebiyi AnuluwapoAdekemi
Adejujimi Oluwaseyi Richards
Adeniyi Bolaji Olusola
Adesina Adeola Marian
Adetunji Adedumola Adetola
Adolor Moses Osereme
Aduroja Olumuyiwa Olugbenga
Agidigbi Confidence Osayuki
Agwi Ehimare Emmanuel
Ahmed Nimatallah Talatu
Akaya Iwanger Ifeoma
Akingun-Roberts Abisola
Akinlabi Olapeju Elizabeth
Akinloye Olusegun Michael
Akinremi Olabode Olayinka
Akomah Pearl ihedinma
Alale Abiodun Ajoke
Alobi Oba Eko
Anni Izezeagbo Dorlin
Arehia Monica
Arimah Ezinma
Atori Ufuoma Jennifer
Awudu Ebiere Ebisintei
Boufini Eniye Edwina
Chijioke Jane Ogochukwu
Chikezie Eze Empihram
Chukwu Augustina Francis
Clement Jennifer Ulome
Dada Jaiyeola Adewale
Dawodu Adaihuoma Atiluke
Diala Aniel Kelechi
Ebigbo Ijeoma Maris

Egbetamah Ovie Collins
Ejide Donatus Kenechi
Eka Utibe Usen
Ekeng Henrietta Nsa
Essienbog Enobong
Evbodi Oghovereh
Ezeanochie Jerry
Fadun Akeem Akindele
Falade Tayelolu Adebola
Fashola Ayode
Fawehinmi Yusuf Oladele
Fawole Oluwakemi Olajumoke
Giwa Saidat Abiodun
Grant Toritseju Stella
Idakwo Ajumbe Ene
Idakwo Fatima Igwutepa
Igbalaye Abiola Kafayat
Iheagwam Charity Chinanye
Ijehu Elizabeth Eka
Ikomi Omayeli Isiuwa
Isioh Awele Sugwu
Jacobs Oluwatosin Christianah
Jobarteh Sibi Temitope
Kachikwu Chekwube Oluwatosin
Kazeem Aisha Aderonke
Kuteyin Kazeem Oyeyinka
Ladega Yewande Ololade
Lan Susan Adaize
Lawonu Iretioluwa Abosede
Machado Francisca Funke
Manager Fun-Ebi
Momoh Sadetu
Mukhtar Safiya Muhammed
Musa Aisha Oyindamola
Nwaiwu Chukwubuikem Nnamdi
Nwodika Raphael Chukwudi
Obareh Ejirho
Obule Elohor Quincy
Ofomola Oghenovo Paul
Oguadinma Obieze Kingsley
Oguntimehin Kemi Titilayo
Okafor Henry Izuchukwu
Okafor Obianuju Uchechukwu
Okoh Uwa Samson
Okutoro Abimbola Omonike
Olayi Judith Alexandra
Olorife Ureshemi
Olorisade Olayinka Oluwatimilehin
Oluwateru Damilola Olusola
Omaruaye Oghenetega
Omoefe-Okor Eno-Oghene
Onovo Adaobi Gift
Onwuameze Onyebuchi Ivy
Onyekwe Sam Chinwe
Oshie Abang Cecilia
Otunla Oluwaseun Mary
Oyeneyin Oladiwura Oladayo
Pippa Emmanuel Oghenero
Pippa Oghenechuko Ephraim
Rapu Anthonia Tobechukwu
Roberts Henry Oluwaseun
Sadiq-Adamu Shamsiya
Samuel Alaere
Sonupe Olumide Kaayinsola
Tayo Olutimilehin Mayowa
Uzegbu Jayne Nelson
Wurim Sarah Bitrus

COLLEGE: Natural and Applied Sciences
Department: Biological Sciences (Microbiology)
Class of Degree: 2nd Class (Upper Division)
Awuje Vincovin
Ejike Ifeyinwa Ijeoma
Emokpae Ohi Festus
Jaiyeola Etana Joy
Okonkwo Ginikanwa Chioma

Class of Degree: 2nd Class (Lower Division)
Adeyemo Oluwadamilola Rhoda
Aregbesola Abiodun Abraham
Bukar Aliya Abdullahi
Clark Tamara
Ihenacho Olachi
Ikhidero Sarah Aimalohi
Irabor Christian Ehizokhaile
Oshinowo Gbemisola Mary
Uzochukwu Adaora

Class of Degree: 3rd Class
Oreke Osima Osame

Department: Environmental Science
Class of Degree: 2nd Class (Upper Division)
Sillo Anire Opeyemi

Class of Degree: 2nd Class (Lower Division)
Obayuwana Osariemen Sharon

Department: Chemical Science
Degree: Bachelor of Science (Industrial Chemistry)
Class of Degree: 2nd Class (Upper Division)
Talabi Ibidapo Oluwaseun

Class of Degree: 2nd Class (Lower Division)
Okenwa Chidiebere

Department: Computer Science & Information Technology
Class of Degree: 1st Class
Odunewu Temitope Adeola
Okurumeh Oluwatoiyin Aghogho

Class of Degree: 2nd Class (Upper Division)
Akeju-Folasade Morounfolu
Amadi-Emina Nkiru
Aminu Kudirat Olushola
Dike Ann Ibitein
Edewor Oghenero Michael
Efeizomor Oshiegbu Ogochukwu
Ekweozoh Cheta Franklin
Emoruwa Adewumi
Maduka Olisaebuka Anene
Naiyeju Imole-Ayo Hannah
Okeke Nkechi
Okenwa Sandra Ijeoma
Opara Charles Chukwuemeka
Sadiq Akeem Bankole
Class of Degree: 2nd Class (Lower Division)
Abolurin Oluwayemisi Kemisola
Adeniran Tunde
Adenugba Temitope Adewale
Agburum James Daddy
Akan Samuel
Akande Ademola
Amobi Chidera Ugochukwu
Apata Lanre Olusegun
Ariwhorai Efeturi
Atanda Kofoworola Abimbola Azeezat
Bashir Nuruddeen Muhammad
Efeurhie Ochuko Tessy
Ekefre Okpongette Nse
Enigbokan Moyinoluwalogo Adesegun
Esho Bamidele Onimisi
Gambe Akananye
Hussain Yusuf Dayar
Igiekhume Friday
Ikalamo Emmanuel Bomo
Lawuyi Laoye Rapheal
Madu Tobechukwu
Mohammed Umar
Najomoh Sophia
Obi Princess Chinyere Stella
Obichukwu Chukwualuka
Odejimi Elson Tolu
Okezie Nnamdi Albert
Okolie Obid Uchechukwu
Okonji Uchechukwu
Oladipo Bolaji Bolarinwa
Olumati Stella
Oruche Emeka
Uwatse Toritseju
Uyanne Ifeanyi Davis

Class of Degree: 3rd Class
Bakare Adeyemo Akeem
Kragha Paul Orume
Okunrobo Eghosa Thomas
Paul Ehigie Paul
Yingi Tamarakro

Department: Agric-Economics & Extension
Degree: Bachelor of Agric. (Economics & Extension)
Class of Degree: 1st Class Hons.
Oyedokun Kola Oyewale

Class of Degree: 2nd Class Hons. (Upper Division)
Popoola Oludayo Taiwo

Class of Degree: 2nd Class Hons. (Lower Division)
Ifeakandu Amaluchukwu Ezinne

SCHOOL OF POSTGRADUATE STUDIES AND RESEARCH
Department: Business Administration
Degree: Ph.D (Business Administration)
Mande Samaila

Class of Degree: M.Sc. (Business Administration)
Atu Omimi-Ejoor Osaretin Kingsley
Eshegberi Oha Anthony
Nwachukwu Uloma Chika

Department: Accounting
Degree: Ph.D (Accounting)
Jafaru Jimoh

Department: Banking and Finance
Degree: Ph.D (Banking and Finance)
Agbada Andrew Omosioni
Ollor Helen Yorowa

Department: Sociology and Anthropology
**Degree:** Ph.D (Sociology)  
Ebighgbo Nnaemeka Christopher  
Ibobor Sunday Ofili

**Degree:** M.Sc (Sociology)  
Bello Eugene Osasumwen  
Emeka-Ogureke Aniefiok  
Igbinosa Irene

**Department:** Microbiology  
**Degree:** M.Sc. (Microbiology)  
Asogwa Ifeoma Eucharia

**Department:** Political Science  
**Degree:** M.Sc. (Political Science)  
Ibe John-Vianney Chidi  
Oaikhena Igbelokoto Marvellous

**Degree:** PGD (Political Science)  
Agba Sunday

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### DEGREE ANALYSIS

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### HEALTH SCIENCES

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### Postgraduate Studies – Doctorate

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**LIST OF GRADUATING STUDENTS - 2010/2011**

**DOCTORATE MASTERS’ AND POSTGRADUATE DIPLOMA**

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**COLLEGE: Arts & Social Sciences**

**Department: African and Foreign Languages (French)**

*Class of Degree: Bachelor of Arts (French)*

- 2nd Class Hons. (Upper Division)
- Agwu Mary Ukpong

**Department: Economics & Development Studies**

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- Ikesanmi Adetola Esther
- Musa Jonathan
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Orubu Eloko
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Aniakor Chukwuabuka
Dakpokpo Hillary
Duru Antgusta
Iba Unyime
Okeibuno Jemimah
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Willie Gloria
Daniel Jordana
Emoghene Ekheoghene
Abraham Emmanuellia
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Aigbe Lily
Ajisafe Hawa
Aremu Ranti
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Offor Vivian
Ogbeyi Patience

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Buwa E. Richmond
Ibegbulem Jennifer
Onuorah O. Pascal
Onwordi Victor O.
Sadiq Adeola F.
Smooth Blessing

**Class of Degree: 2nd Class (Lower Division)**

Buwa E. Richmond
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Onwordi Victor O.
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<td>1st Class Hons.</td>
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<td>Iyasele Michael</td>
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Ogbebor Davis
Ogbemi Omosede
Okiemute Ika
Okpala Kenechukwu
Ojih Alexander
Omekhe Dafe
Osagiede Anthonia
Oseni Temitope Idiat
Popoola Olatunde
Ukpetenan Collins Osazuwa

Oyati Ebenezer

Class of Degree: 3rd Class Hons.
Forsman Joshua Ebikikoro

Department: Electrical/Electronics Engineering

Class of Degree: 1st Class Hons.
Onyegbadue Ikenna

College: Engineering
Department: Chemical Engineering

Class of Degree: 1st Class Hons.
Junald Zainab Oluwakemi

Class of Degree: 2nd Class (Upper Division)
Anyankpele Paul Ebitimi
Okeugo Chidinma
Raji Waheed Akinmunni
Kporo Toritseju Abigail

Class of Degree: 2nd Class (Lower Division)
Egurela Inawane Jr.
Aina Simon Mayowa
Obi Nnamdi Michael

Class of Degree: 3rd Class
Mogaji Adebola Hamid
Tifase Ronke
Abdullahi Aminat

Class of Degree: Pass
Hassan Faisai

Department: Civil Engineering

Class of Degree: 2nd Class (Upper Division)
Achimalo Ezugo Emeka
Ale Olugbenga Joseph
Koffreh Archibong
Nwanise Etienam Nwanise

Class of Degree: 2nd Class (Lower Division)
Naiyeju Oluwatosin Samuel
Orakwue Chukwuemeka

Class of Degree: 2nd Class (Upper Division)
Mogaji Adebola Hamid
Tifase Ronke
Abdullahi Aminat

Class of Degree: 2nd Class (Lower Division)
Naiyeju Oluwatosin Samuel
Orakwue Chukwuemeka

Department: Computer Engineering

Class of Degree: 1st Class
Orororo Oghene Stephen

Class of Degree: 2nd Class (Upper Division)
Nweke Onyinye

Class of Degree: 2nd Class (Lower Division)
Afejuku-Mene Gbubemi
Ayebatonye Ikoli
Ediongseyene Williams
Effiong Effiom Umoh
**Department: Mechanical Engineering**
**Class of Degree: 2nd Class (Upper Division)**
Abari Abulhamid
Adeuji Olumide
Alfred David Christopher
Arukawhore Nelson
Atiemo-Gyan Yaw
Don Pedro Vito
Nletem Nhuomachi
Ogaga Okokowa
Oziegbe John Ehimare

**Class of Degree: 2nd Class (Lower Division)**
Ogbuke Henry
Ohaegbulem Kingsley
Ohunaya Toriteju
Otungo Amaziah
Umoh Effiom Umoh

**Class of Degree: 3rd Class**
Alawode Olusegun
Okafor Ifeanyi
Omorgie Paul

**COLLEGE: Engineering**
**Department: Petroleum Engineering**
**Class of Degree: 2nd Class Hons. (Upper Division)**
Eno Enobong Unanaowo

**Class of Degree: 2nd Class Hons. (Lower Division)**
Balogun Omosalewa Omowunmi
Tinubu Oluwasegun Olukunle
Oduah Philip Chiweta
Dakwak Rwang Yakubu

**Class of Degree: 3rd Class**
Aguebor Ikponmwosa Samuel

**Department: Food Science & Technology**

**Class of Degree: 2nd Class Hons. (Upper Division)**
Aborishade Ilashe
Ijabi Idowu

**COLLEGE: Health Sciences**
**Department: Biochemistry**
**Class of Degree: 2nd Class Hons. (Upper Division)**
Ekhayeme E. Clara
Nkwonta Binyelum E.
Ukah Fabiola

**School of Clinical Medicine (Bs.C. Nursing)**
**Class of Degree: 2nd Class (Upper Division)**
Agbonavbare Happiness
Bodemeh Betty
Ekokamu Edema
Ohahuns Amara
Omo Ogiefo Joy
Uwakure Nkechinyere

**Class of Degree: 2nd Class Hons.(Lower Division)**
Agu Chinelo
Eniayewu Abimbola
Omisakin Busayo
Usoh Stacy Amenze
Oyelayo Olufunke

**School of Clinical Medicine**
**Degree: MBBS**
Abbe Daniel Orobosa
Abdulazeez Abdulkareem Zainab
Abdulirahab Medinat Bolanle
Adebola Afolabi Olukole
Adedokun Aderemi
Adekunle Yetunde Enitan
Adesesan Ibukunoluwa Omowunmi
Afejuku Anirejuotitse Alero
Agho Osamede
Ahmed Abdulatafiq Olawale
Aikhomun Aizenose Esther
Aimola Ebenmosi
Ajayi Oluwabukola

603
Panama Lucky Ogheneruemu
Potts Johnson Babajide Agboola
Salami Oluwakemi Rukayat
Sodipo Babatunde
Ubebe Osagie
Udoudo Nsisong Patrick
Uzochukwu David
Warkani Hyelhara
Willie Anthony
Zubairu Umar Farouq
Abidakun Ibukunoluwa Tope
Adebayo Adebusola Olasunkanmi
Afelumo Temitope Olajumoke
Agunbiade Owunmili Funmilayo
Amadasun Precious Oghomwen
Amba-ambajowei Esinkumo Etipou
Duru Nnandi Chinedu
Echikwa Uwhetu Esor
Eka Christiana Joe
Enebli Omenti Charles
Fawole Ayodeji Emmanuel
Ibeh Chinwe Amara
Imasuen Itohan Omosefe
Manu Nkem
Mouka Chika Jennifer
Negene Ngozi Emmanuel
Nmerukini Chika
Nwosu Jane Nneoma
Obiefuna Adaobi Genevieve
Okpikpi Betty Gbenyen
Osaghae Eseosa
Adebanjo Damilola Elizabeth
Amaechi Nne Ihuoma
Asekhame Omokhosa Tito
Asodike Osinachi Ginikachi
Atu Anthonia Oyemwen
Bulama Ahmed Abdu
Enabulele Nancy Itohan
Gana Bala Theophilus
Igyuse Saater Solomon
Ijioma Oyidya Nnenna
Ishaka Oghenebrume Jennifer
Kifasi Rimam Ifraim
Naiyeju Olufunso Joseph
Nkanta Stephanie Maurice
Nwabunike Munachi Onyebuchi
Nwaokoro Samuel Adimabua
Nwosu Glory
Odey Janet Nka
Ogunjobi Toluope Olwafunmilayo
Okolie Sylvia Seun
Omolayo Oluwakemi Olufeyi
Omoragbon Felix Uhunoma
Osayinwen Jennifer Inuwahen
Oyawiri Enohor Edna
Sakajojo Lanre Raheem
Udo Inigbehe Nyong
Ukpong Enomfon Emmanuel
Erewele Omoye Precious
Olofin Mary Adimola

Department: Medical Laboratory Sciences
Class of Degree: 2nd Class Hons. (Lower Division)
Yingi Finiere Esther Ekene
Okorie Grace
Edosa Omoyemwen Peari

Department: Physiology
Class of Degree: 2nd Class Hons. (Lower Division)
Nwose Esther Ekene

COLLEGE: PHARMACY
500 LEVEL A
Abdulkadir, Safiya Shehu
Adeniyi, Titilola
Agunbiade, Foluso Abayomi
Agwu, Chioma Nwogo
Anene, Chikwuemeka Jude
Anosike, Helen Nneoma
Avanrenren, Owamagbe
Braimah, Stella Omokhefe
Egolum, Ogochukwu
Eruchalu, Obiaju
Humphrey, Chijioke Nkem
Iloanugo, Henry Tochukwu
Jemegbe, Eyimofe Oke
Maduakor, Chukwuonso Godwin
Obiebi, Okiemute
Ogagbe, Sussy
Ogunjide, Michael
Okofor, Okuchukwu Mariam
Okonkwo, Ifeayi Sydney
Olikekan, Bolaji Kamoru
Onyeodor, Ginika Irene
Osinowo, Funmilola
Oyeneyin, Olayele Raphael

500 LEVEL B
Abioye, Oluwakemi Oyenike
Abujade, Olaide Ganiyar
Adiat, Adenike
Agbo, Dorathy Nkiruka
Adjbola, Kolawole Daniel
Alfred, Inemesit Okon
Amako, Chinenye Akudo
Antai, Nkoyo Usoro
Awak, Mbeke Aneietie
Bello, Elizabeth Amenze
Ekechukwu, Chudinma
Fide-Nwaogu, Chizaram
Henshaw, Gladys Okon
Idahosa, Evbu Elizabeth
Itamuseye, Moyomola
Iwuoha, Oluchukwu
Kanu, Ugochukwu Stanley
Mosaku, Yewande Tosin
Nsaka, Dorcas Eziuche
Obajulu, Ebenmosi Teka
Ochuko, Oghenekaro Unuagba
Odihara-Ezezue, Ijoma
Ogagbe, Akpos
Ojo, Oluseyi Christogonus
Okafor, Ijioma Nkechi
Okoli, Moses Ebubechukwu
Okolo, Chibuzor Florence
Okorafor, Chioma Queen
Okoye, Uju Olivia
Olaniran, Olakunbi Abehun
Oloyede, Olakunle Odunayo
Oluwole, Oluwatoyin Comfort
Onuoha, Lynda Chinenye
Osagie, Omoregie
Osagbovo, Omoyemwen
Oso, Abayomi Stephen
Sakajojo, Lekan
Shode, Oluwatobiloba Folakemi
Udeze, Ifeyinwa Oninye
Yusuf, Nafisah

500 LEVEL C
Adefisoye, Adeola
Adewusi, Oluwakemi Oluwafunke
Adewuyi, Olayiwola Samuel
Ajulufoh, Mathew Chukwuaqoziem
Akinpelu, Oluwole Adedeji
Akinso, Dolapo Damilola
Akosile, Kabir Olatokunbo
Atanda, Latifat Abidemi
Buhari, Zainab Modupeola
Edu, Ewezu Augustine
Ejiofor, Chukwuebuka Lotanna
Ekeng, Josephine Nsa
Ekwueme, Uche Thompson
Emili, Onyinye Davina
Ezejiaku, Chidozie Ikenna
Ezike, Kenchukwu Stanley
Famoye, Oluwaseyi Comfort
Fatilu, Ifeoluwatayo Bebayode
Halid, Salma Yusuf
Ifebigh, Jennifer Chidinma
Ikwebe, Ori Helen
Jaja, Florence Isaac
Kalu, Ifeayichukwu Orji
Lazarus, Inimotimi Juliet
Makaraba, Success Antorofa
Ngene, Nonso Oscar
Nwachukwu, Obiageli Gertrude Adaku
Obazee, Osaze
Odeh, Omorovbiye Cynthia
Oduwole, Oluwatobi Ibrahim
Ofoeyeno, Esanye Tinuke
Ogunleye, Busolami
Ojo, Onwaseyi Vivien
Okporu, Oyinbrakemi
Okodugha, Agbomerele Joan
Okoro, Valetina
Olakpe, Jennifer Elo
Oluyide, Oluwatosin Opeyemi
Osemwegie, Esosa
Osuigbo, Evabgeline Onyinyechi
Tende, Elizabeth
Umebuani, Donald Arizechukwu
Uzoh, Ijeoma Cynthia

COLLEGE: Law
Class of Degree: 1st Class (Hons.)
Akpan Ekemini Aniedi
Fagbure Aderinsola Adetola
Nwangene Chinonso Calista
Orijia Olajumoke Adebola

Class of Degree: 2nd Class (Upper Division)
Adebayo Adebusola Adetoun
Adebayo Hassan Afees
Adebiyi Adedotun Afolabi
Adegeji Deborah Adebimpe
Adewale Adedamilola Bose
Ajoni Olaoluwa Adeoye
Akingbule Olagboyega Akinyele
Aladejare Adetokunbo Adesoji
Alawoya Abolanle Toluwalope
Amissine Mercy Ayokanmi
Anyankpele Prere Anna
Aregbesola Ajibola Deborah
Arı Olaide Ismail
Adu Omotayo Bilki
Dagogo Alabota Queen
Douglas Tamunotokoni Eliezer
Ebikebina Deinmobofa Tantua
Edema Omane Efe
Edun Oluwatoyosi Tosin
Ekanem Victor Edwin
Ekpunobi Chidinma Sylvia
Erhonsele Odianosen Kelvin
Fashanu Racheal Olabisi
Fasidi Ololade Idowu
Ifeđiba Florence Ifeoma
Kanu Sandra Chinnye
Man Peres David
Masajuwa Okiehụme Kolawole
Nnaka Judith Amarachi
Nwoha Onyeka
Nwosu Ijeoma Chetaechukwu
Obijuru Eberechukwu Patricia
Ogungoyinbo Olajumoke Abisola
Ohenhen Mandy Inuaghata

Onkonwo Akuejosi Princess
Okpoiso Yireabasi Nseabasi
Olanlokun Oluwatoyin Temitope
Omidiji Omowumi Olayinka
Omolayo Precious Oluwatobi
Onah Christian Ngozi
Owohawodua Pius
Owopetu Omolala Deborah
Oyerinde Amoluwapo Felicia
Rahman Adenike Kafilat
Somari Gift Ibierembo
Tantua Ebideinere Webba
Nwanise Lucy Efienam

Class of Degree: 2nd Class (Lower Division)
Adiele Nnenna
Affia Akan Godwin
Afimoni Gift Daniel
Ajuyah Toriseju Christopher
Amadi Emina Philip
Azifuaku Emeka Anthony
Bakare Abigail Abiola
Barrah Uchendu Ben
Chinweze Ebuak Martins
Dike Chizor Nдумardi
Dosumu Temitope Adeoye
Emekekwe Chukwumajem Christian
Ezedi Hilary Junior
Ezenyili Eloka Valentine
Igbinedion Edugie
Jimoh Yusuf Oshoreasa
Kemefa Baariki Pius
Obiekezie Helen Chibuzor
Obot Iberedem Obot
Odoro Adebiyi Adeyinka
Oduneye Ayodele Odinaka
Ogundipe Olajumoke Eniola
Okaruefe Ufuoma Sophia
Okeze Shirley Ijeoma
Okuegwa Uruemu Thatcher
Olakunrin Feyisike
Olawofe Oyemolade Charles
Omo-Iziren Ibijoke
Omokaro Nosakhare Catherine
Omoru Onome Pamela
Onwe Alexander Nnaemeka
Onyeka Ikemefuna Chika
Oriuwa Mishael Onyedikachi
Osisioma Samuel Ogochukwu
Oyibo Onovughakpor Freda
Sadiku Paul Remilekun
Sambe Victoria
Udoessien Waseno Etta
Udorah Arinze Nathaniel

COLLEGE: Natural and Applied Sciences
Department: Biological Sciences
(Microbiology)
Class of Degree: 2nd Class (Upper Division)
Abdullahi Hadiza
Aderoju Temitope

Class of Degree: 2nd Class (Lower Division)
Akinmolayan Abiola
Awantaye Kalaine
Bamgbala Sinat O.
Baize Elehor
Etuk Ubokobong I.
Inneh Sophia Taiye
Obialo Lynda Ojuigo
Oboarekpe Justice
Odusanwo Abiola Kaosarat
Ogbuja Ndukwon N.
Ojo Eghosa Kingsley
Okeke Oyinye P.
Oni Oyemwen Antonette
Onwuachi June
Osemwegie Kingsley
Uluocha Brown
Omosumwen Osamudiamen

Class of Degree: 3rd Class
Nwopivivian C.
Udoh Jane

Department: Chemical Science
Class of Degree: 2nd Class (Upper Division)
Dafosi Anikeola Charity

Class of Degree: 2nd Class (Lower Division)
Amahwe Okeezi Isabel

Department: Computer Science & Information Technology
Class of Degree: 1st Class
Oni Moyosoreoluwa

Class of Degree: 2nd Class (Upper Division)
Ajayi Moses Olaoluwa
Ariweriokuma Excellence
Aro Olawale Azeez
Chioke Mukosolu Onyeka
Eyiowuwi Gbolahan
Obe Olumide Felix
Odukuye Kesiena Theresa

Class of Degree: 2nd Class (Lower Division)
Adeorinike Shola Fresh
Adisa Ayobami
Akinlabi Oladotun
Badmus Rashidat Abiola
Bulus Hope Miman
Chima Adimchonobi Dominic
Gidado Sirajo Mohammed
Iyasere Akpobome
Obarghecho Alex Ohenhen
Obomanu Omowumi Hilda
Odukuye Kesiena Theresa
Okoh Isioma
Ologunleko Oluwatosin Adenike
Osanyintuyi Damilola Stephen
Ubogu Chidinma
Uche Samuel Naemeka
Ugege Oghenewede
Ugoanyanwu Chukwuemeka

Class of Degree: 3rd Class
Oluwatayo Ayotunde
ROBERT Dayo Richards

Department: Agric-Economics & Extension
Class of Degree: 2nd Class Hons. (Lower Division)
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<th>1&lt;sup&gt;ST&lt;/sup&gt; CLASS</th>
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<th>2&lt;sup&gt;ND&lt;/sup&gt; CLASS LOWER</th>
<th>3&lt;sup&gt;RD&lt;/sup&gt; CLASS</th>
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<td>iii. English</td>
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**LIST OF GRADUATING STUDENTS – 2011/2012**

**SCHOOL OF POSTGRADUATE STUDIES & RESEARCH**

**OBA EREDIAUWA COLLEGE OF LAW**

<table>
<thead>
<tr>
<th>NAMES</th>
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<tr>
<td>EMAVIWE, CHARITY UDOKAMMA</td>
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<td>OKOJIE, ERIC AYEMERE</td>
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<tr>
<td>OLAIDE ABASS GBADAMOSI</td>
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<tr>
<td>CHARLES EMEKA OCHEM</td>
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<td>NAT CHU OFO</td>
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**COLLEGE OF ARTS AND SOCIAL SCIENCES**

**DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION**

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<tr>
<td>ADEDIRAN, MERCY MODUPE</td>
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<td>ANGELA EZEWELE</td>
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<td>FIDELIS ATTAMAH</td>
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**DEPARTMENT OF THEATRE ARTS**

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<tr>
<td>PRAISE CHIDINMA DANIEL-INIM</td>
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**COLLEGE OF BUSINESS AND MANAGEMENT STUDIES**

**DEPARTMENT OF BUSINESS ADMINISTRATION**

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**DEPARTMENT OF BANKING AND FINANCE**

610
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**COLLEGE OF NATURAL AND APPLIED SCIENCE**

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**COLLEGE OF ARTS AND SOCIAL SCIENCES**
DEPARTMENT OF ECONOMICS AND DEVELOPMENT STUDIES
FIRST CLASS
EZENWANNE ONYINYE PERPETUAL  OMONIYI, OLUWADAMILOLA JOAN

SECOND CLASS (UPPER DIVISION)
ABEL, ONYEMUWA KATE
ABUBAKAR, AISHA
AFOLABI, ADEOLA RUKAYAT  ANYABA, KINGSLEY CHIBUZOR
ANTAMELE, VICTOR CHIEMEKA  AYOGU TOCHUKWU
DAWODU, ADEOLU ONYINUFCHI  EJEH DUKPE
CHARLES GRACE MEMBER
EYISI MAKUACHUKWU GRACIOUS
JAIYE-TIKOLO IFEDOLAPO
TOLULOPE
MUSA BASHIR
MUSA HAUWA NANA
ODIGIRI MAXWELL
ODO VANESA NENI
OGBONNA UKACHI AUDREY
OKOSUN STANLEY
ILOEKWE EUNICE UZOAMAKA
OKUNOLA OLUWAFEMI AYODEJI
ONYEBOI PARRY IFEANYI
OTUNTA PEARL EZINNE
SOTA OGHENETEJIRI IVY
TARKUMBUR JUDE TARVERSHPIMA
TOJE, JULIET OGHENERUKEVWE

SECOND CLASS (LOWER DIVISION)
ATANA OFIEMMO GIEMEBO
AKAGBOSU LEO DARE
EKEMAM SAMUEL CHUKA
EKERUCHE CHINEDU
EMMANUEL CHIDI MICHEAL
GAMBO MOMSIRI WESLEY
GOTRING KITSHIWE KEN
EZUGWU SIMON EMEKA
IKEBUDU UGOCHUKWU ARINZE
ISIKA BABATUNDE HAKEEM
NNAJI MACPHILIPS JIDEOFOR
NWACHUKWU NNAMDI EMMA
OKONKWO UGOCHUKWU IFEANYI
OKOYE PRINCE CHUKWUEBUKA
RAYDON EVELYN
UZOH CLEMENT UGOCHUKWU

DEPARTMENT OF ENGLISH
SECOND CLASS (LOWER DIVISION)
MOMOH, BUKOLA UMANEIVO
OKOLO, ISIOMA OFUNNE

DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING
SECOND CLASS (UPPER DIVISION)
BABANGIDA, MOHAMMED SHAHEED
OCHALA, EMMANUEL OJOMUGBO
SECOND CLASS (LOWER DIVISION)
JINKATORO, MUBARACK USMAN
SULEIMAN, ABDUL-MALIK
UKPONG, UWEN OKON
USANGA, AKWAMFON

INTERNATIONAL RELATIONS
FIRST CLASS
AYO ELIJAH
OGHIEAKHE ISABELLA
SECOND CLASS (UPPER DIVISION)
ADELANA OLUSHOLA
ADELE CHINASA
CHU O. CHUREMI
EJENONU SONIA
EZENDUKA ADAKU
IRUOBE OVY
KAWA LAWRENCE
OKAFOR CHINYERE
OKEY JULIET
SECOND CLASS (LOWER DIVISION)
AGONI ODION
AKINGBIUGBE AKIN
BOUFINI PAUL
IHO WUESE WINIFRED
IYASELE HARRIETA
JAJA THELMA
KIMBERLY UBIEBOR
LAWSON ASORIYA
NNEKA BELLA AGBOTA
ODIBO PATIENCE
ONI ROSELINE
ADETULA ADEDAMOLA
EMUOBOR AKPOIGBE
ADEBAYO EFFOSIUGBARE
HUMPFHEREY
KAYIT YUSUF

DEPARTMENT OF MASS COMMUNICATION
FIRST CLASS
MANYA ANILI SHEBA
FALAYE DAMILOLA TEMITIPE
OKPALA VIVIAN UCHEMELU
OGUNFOWOKAN FUNNILAYO
ENIOLA

SECOND CLASS HONOURS (UPPER DIVISION)
GOVERNOR TAMARAETAREM
EJERE OHITEME
DIKE STELLA OGOCHEWU
JINADU SIMISOLA SHERIFAT
LADEGA OLUWASEAN OLUWAKEMI
MOHAMMED AMINA ANWAL
ANYA IFEOMA SHANON
OKO ELIZABETH TELEMAZIBA
OKUNOWA OMALARU OLUWANDE
ORAJUBA CHIOMA BLESSING
AMREDHE ELO JENNIFER
OWODUNMI ENITAN IYABO
STEWART AMEN
UGBORIANE EBIKONBOERE
ZACCHAEUS YINESI EUNICE
SALAKO OLUWATOYIN OLUBUKOLA
ZIWORITIN ONYEINKUOLE
ALIYU SAFIYA

SHEHU AISHA WAN
ADENIYI OLUWATOSIN
OKORO ANULI SUZIE
ANYAORAH IFEYINWA QUEENDELIN
DANBAUCHI ADAR LIATU

SECOND CLASS (LOWER DIVISION)
AKINOSHO AMINA OMOLOLA
FELIX AKINTUNDE EMMANUEL
GOVERNOR SEYA
LAGOS IWAIPOMO GLORIA
OZOKA BENITA CHINEYE
ERIAMIANTOE EKI
ONYEDIKA OBIINNA CHRISTIANTUS
AUDU GODWIN IDENOBE
OBI FELICIA
EJENADIA DORCAS
JIABIYE MAPELOLA ANTONIA
OSELIM FAVOUR
ILE VICTORY

DEPARTMENT OF POLITICAL SCIENCE & PUBLIC ADMINISTRATION
FIRST CLASS
AGBORIANE NYORE SOPHIA

SECOND CLASS (UPPER DIVISION)
ADAMU MUHAMMED BASHIR
AMAYO ODION CHARITY
DOKPESI OBED OSIOMA
JAJA DAISY IBALAPA
UDOH NKECHI MARYROSE

SECOND CLASS (LOWER DIVISION)
ADUN OGOCHHO FLORA
AKAOLISA TUKWASI MICHAEL
ATIKPA GLORY TOKONI
IBEKEW EMEKA EZEKIEL
JADA MUHAMMED ADAMU
JADA MUHAMMED HAFISU
JAJA BOMA BASIL
OBIOPLA UDOKA TONY
ODOYA ROWAN CHRISTOPHER
OKOH THEODORA CHIDINMA
OSHIFESO DAVID TAYO
SAIGU ASIYA
ALAO OMOTOLA
AROTIBA OLU DEBORAH
EGBON EGHOSA
EHKIOYA ODIION G.
IBAMA G. DAREEGO
IKHARO HOPE I.
LAWAL A. GARUBA
LAWAL S. IBIDEMI
NWABUOKU PETER CHUKWUNONSO

SECOND CLASS (LOWER DIVISION)
MBANUGO EVARISTUS NONSO
OSHINNEYE OLAREWAJU
AMOBI NONSO
OGHORADA EMMANUEL
TESTAN LANCE A.F
EBENAH TRUST A.
IBRAHIM RUKAYAT
AMHED MOHAMMED LAWAL
NWOKELUE AFAM L.
EDOSOMWUN ABIYEYUWA
UREVBU VICTOR
EZECHUKWU STANLEY
OSAGIE EDOGHOGHO
SADAT ALIYU BARAKA
ODUTAN ABIODUN HASSAN
IBRAHIM M. MOHAMMED
OKEKE CHINENYENWA
ADEDAPO AISIDA M.P.
ABBI BASILUS A.
AKPIMEGI EJIRO
ABBA UMAR FAROUK
SADIQ IBRAHIM ZUKOGI
OBICHE ELVIS UGO
EFFAH EKAETTE U.
BALOGUN CHURCHILL

COLLEGE OF ENGINEERING
CHEMICAL ENGINEERING
SECOND CLASS (UPPER DIVISION)
FIBERESIMA, IBIEREMBO HANNAH
IGHORAYE, GILDA AKWEKWE
OBiano, JANE
OHAGWA LYNDA OGECHI
OMOYA OMOTOSO OIAIDE
UZODINMA, CHUKWUKA OBINNA

SECOND CLASS (LOWER DIVISION)
AKINSANYA, MAYOWA AJIBOLA
ARO, SUNDAY OLUWATOSIN
OWOYALE, ELISHA IYANUOLUWA
UGBOH IJEAMAKA
ADEYEMO, IDOWU

THIRD CLASS
OYEMIKE, FRANK

CIVIL ENGINEERING
SECOND CLASS (UPPER DIVISION)
MEKWUNYE KENECHI
NWAOBOSHI CHRISTOPHER

SECOND CLASS (LOWER DIVISION)
IKE MORRIS AMANZE

THIRD CLASS
SEKIBO OSEMIEBI

DEPARTMENT OF ELECTRICAL
ELECTRONICS ENGINEERING
(COMPUTER ENGINEERING OPTION)
SECOND CLASS (UPPER DIVISION)
IPINYOMI TOLUWASE MICHAEL
ENWUZOR FAROUK ABBAS
ATTITEBI KAFAYAT IFEDOLAPO

SECOND CLASS (LOWER DIVISION)
OBI CHIBUZOR CHARLES

DEPARTMENT OF ELECTRICAL
ELECTRONICS ENGINEERING
(ELECTRICAL ENGINEERING OPTION)
FIRST CLASS
OYALETOR SAMUEL EBOSETALE
DJOMA SIDNEY DAfäE
TURNAH AUDREY IYARONIN

SECOND CLASS (UPPER DIVISION)
SECOND CLASS (UPPER DIVISION)
ISIUKU CHUKWUEMEKA
IYITOR CHUKWUNonso ROBERT
MADUMERE CHINEDU VINCENT
OSHENYE SCOTT DIEMIRUAYE
UKUSARE OGHENERURO DANIEL
SECOND CLASS (LOWER DIVISION)
FREGENE IGHOTEGUONO JAPHETH
ITEGBOJE ISAAC JESUONE
NMOR IKECHUKWU GODSPower
OKEZE SIDNEY EMEKA
OWOH GABRIEL CHUKWUMA
PETROLEUM ENGINEERING
FIRST CLASS
AUDU TSEAGA ISRAEL
SECOND CLASS (UPPER DIVISION)
ADELOSOYE ADEMOLA MAXWELL
ALFRED UTIBE-ABASI OKON
ALI RASHID ANTHONY
EBERECHI CHIMENEM TONIA
EHISUORIA BLESSING
ILOABANAFOREGINA
KASABA OLUWATOSIN BILIQUIS
MOMODU SHERIFAT ADEGBODESI
MEDICINE
ABORISADE ABIOLA OLAIDE
ADDOH, OVUOKERIE CHIMNEDUM
ADEBIMPE ADEDEJI
ADEKUNLE ADESHEWA
ADYEYEMOTOSIN
ADUBIARO, YETUNDE ESTHER
AGOH OJOMA
AJULUFOH, CHIJOKE PAULINUS
AKINDIPE, REMILEKUN CHRISTIANA
AKINTAYO, OLUFEMI ADEBIYI
ALADEBO FADEKEMI
ALELE, BLESSING KIKELOMO
ALLISON MODUPE
ALUKO, YETUNDE OLADAYO
AMASO, IBIELA LETHUKUTHULA
ANABA, HONEST IFEANYICHUKWU
BAKARE, DAVID OLORUNNISHOLA
BALOGUN, ABIMBOLA FARIDAH
BASSEY, GODWIN EKAPONG
BISHOP, JOHN OGHENEOHERO
BOSAH, IFEANYI BENE
DADA FOYEKE
DADA VICTORIA OLUWAYEMISI
DAVID-IGA, IYENEOMIE SOBEREKON
EDEM BASSEY
EGEOLU OBIAGERI
IROGUE EGHOZA
EKAT, REKPENE BASSEY
EKWUAZI, A. GERALD
ELELEGWU, MAGDALENE ISIOMA
EME-UCHE CHIMSON
EMODI CHINWE
EMOGHENE EJAETA
ENYONG UDUAK ITA
ESEAGWU, FRIDAY ONUWA
ESO, ASUKPONG EFFIONG
EWAGBA, ANTHONY MAKPO
EYITUOYO, HARRY ONORIODE
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GAMI, HILARY TUMBA
GARUBA, SAHEED TEMITOPE
HART, IBIFIRI IBILANYEOFORI
IHME, NNAEMEKA WISDOM
IJEH, CHUKWUNIKE JOSEPH
IIJEBOR, EBANEHITA CLARA
IKEANI, IFEANYI MICHAEL
ILOANUGO CHINEDU
IMIRUAYE ELOHOR IRENE
IRUENABERE OBIENTONBARA
JAYEBOA, ADEBIMPE BOLANLE
JERORO OGHENETEGIRI
JIMO, ABDULRAZAQ
JIMOH, ABDULRAZAQ
JIMOH, ABDULRAZAQ
KASALI, AISHAT BOLANLE
KPOJIME, DEVE DIANA
LAWAL, ADEBAYO AZEEM
MACAIVER TUNWERE
MAJIYAGBE TITILOPE
MGBOJIKWE, SANDRA ONYINYE
MOSES, GLORIA OFUJE
MOTILEWA ELIZABETH
NJOKU, IRENE EGHONGHON
OKORO, PEACE NGOZI
NNAMANI, IKENNA KIZITO
NNAMDI ONYINYECHI
NWANI, SANDRA ORIRE
NWANKWO, ADAOBI MAUREEN
NWANZE CHIBUKI
NWEKE CHUKWUELOKA
NWILENE, NUKA JULIET
NWOSU OLISAEMEKA
OBICHERE, UGOCHUKWU CALLISTUS
OCHIE UCHECHUKWU
ODUAH, STELLA ONYINYE
ODUDIMU, RUTH YETUNDE
OGBIMI, RICHARD EFE
OGBUAGU, ADAEZE CHIBUZOR
OGUNDELE, CY BLESSING
OGUNSELA, ATINUKE LATIFAT
OGUNYEMI OLAYEMI
OKAO, EDO-ODION SOLOMON
OKENWA RICHARD
OKERE, SABINUS CHUKA
OKEREKE, GRACE CHIDINMA
OKOROAFOF NNENNA
OKOYE CHIKELUE
OKOYE CHIUGO
OKPOMO BEST
OKUNEYE, MAYOWA ELIZABETH
OLADAPÔ, TOBI GBOLAHAN
OLAYIWOLA IMOMOT
OMAYUKU VIVIAN ALEO
OMODAMWEN ESOSA
OMUSO WILSON
ONYEMALU UCHECHI
OSEN, OLUKAYODE AZEEZ
OWOLABI, OLABISI JULIANAH
IBRAHIM MADINA ABUBAKAR
IDRIS SHEHU DABO
NWANKWO ADAORA LINDA
NWEKE EKENE UDOKA
NWOSIBE OLUCHI
ODEBEATU KEN ALOCHUKWU
OGBEIDE IDIALU PRECIOUS
OGHENEKOHWO EGURIASE DOMINIC
OGUNSOILA OLUWAMAYOKUN
TEMITOPE
OKAFOR CHUKWUDI SOLOMON
OKE ROTIMI AGBOOLA
OKORIE CHINEDU OBINNA
OKOYE NKIRUKA PERPETUAL
OKPORU TOMBRA
OLASOLOMON OLUWAYEMISI
OLIKO CHUKWUMA MALCOLM
OLOWO AYINLA AFEEZ
OMOKARO REBECCA OSAYIMWEN
ONWORDI MARIAN
ONYESEGBU ONYENUCHEA
KATHLEEN
OSAMAGIE OSAROBOMWEN EHI
OTI FLORA IJEOMA
OWOSENIM OTOMETAYO
TETENTA ELIZABETH IBIWARI
UKPAI STANLEY IDIKA
UMENNAI NJIDEKA PEACE
UTTAH IMAOBONG MATTHIAS
YAKUBU YILUMA LARABA
OKAFOR UCHENNA INNOCENT
OMOLOLA RAPHEAL
OGWUCHE GODFREY OCHE
ABDULATIF AFIU
ABIKOYE DEBORAH FEHINTOLA
ABODE MOUHOLUEDE DAVID
ACHINWU IGWENZI CHITURU
ADEAGA TIWALADE
ADEDEJI AYOKUNMI TOSIN
AGBONAVBARE MOSES
AIBAOYI OISEOJIE
AINA KEMISOLA ESTHER
AJIBOYE TOLULOPE
AKANDE ADETOKES
AKINBAMI ADEDOLA ABDULAFIS
AKINPELOYE OLUWAFEMI
AKINSETE BABAAYODEJI
AKPAN OFONIME ANIEDI
AMAMIZE UNOMA J.
AMINU NUSIRAT AINKE
AMROMANO IROREVWO SOLOMON
ANI IYAMBA NNEKA
ASUQUO ENOCH FRANCIS
BABAALOLA MATHEW AYODEJI
BOLUMOLE OLABIMPE NINIOLA
CHIBUEZOEKO CHIDERRA NOELLA
EBOCHUE CHIGOZIE NEIL
EFOGHE BENEDICT
EGERUAN IZZY SAMSON
EHIMA EWERE
EHIZIBUE FRANCIS EBOSAREME
ENOH GODFREYA.
ERIYAMREMU OGHENENREONKE
ERUEMULOR CHIBUZOR CYNTHIA
IBRAHIM SADIAT ABIADI
IDAHOSA OSATOHANMWEN
AGHALELDIA
IGAH SOTARI
IHENYEN EROMOSELE
IKOGHO OVIE
IKUESAN OLUWAYEMISI OLUWASEYI
IKURU UGWEN BERTRAM
IKUSEEDUN OLUGBENDA
INYANG EMOBONG
INYANG INIYOBO EDEUEK
ISIKI ERICA
ISOBAR INFOK UDO
ITIA, IMAOBONG EMMANUEL
JAMABO TAMUNO DIPIRIYE
JOBARTHE KAKHEALY MONICA
NJOKU EDWARD IKECHUKWU
NKEMCHOR LAWRENCE ONYEKA
NWACHUKWU DOZIE
NWALI ONYEKA
NWEKE CHINWENDU FRANCES
NWODIKA CHIKA NWANNEKA
NWOSEH TELMA OBY
OBANOVWE CLARENC EFFEMENA
ODUAH AZE PHILIP
OFFICE AUGUSTINE
OGBONNA APUGO WILLIAMS
OKAFOR IFEOMA CYNTHIA
OKOYE NGOZI JOY
OLADOGBA EBENEZER SEHINDE
OLADOSU OLAADAPF AFOLABI
OLASANOYE OLULOLA
OLUSANYA DAVID AYORINDE
OMOLERE OMOTAYO TOLULOPE
OMOREGIE OSAYUKI VIVIAN
ONYEAGHOR SAMUEL OGEN
OREYOMI ATINUKE ABIMBOLA
OSAGHIE FERVENCY NOSAZE

BS.c NURSING SCIENCE
SECOND CLASS (UPPER DIVISION)
ANYANWU, LINDA UCHECHI
BASSEY, ROSEMARY UKANA.
IDOWU OLUFUNMILAYO OLAPO
ADEYEMI ABIMBOLA ENIOLA
OJO CECILIA OLABIMPE
OLAYEDE BOSEDE ABIGAIL
OMOREGBE FAITH
OSARIO SARAH BIBIRAH

SECOND CLASS (LOWER DIVISION)
IGBINOVIA, HOPE ERONMWON
IYABOR, CHARLES UYIOSA
OGUNJUYIGBE OLAPEJU OLUFUNKE
OMORODION, ISOKEN BECKY

DEPARTMENT PHYSIOLOGY
SECOND CLASS (LOWER DIVISION)
IHEMEKWELEM SAMUEL CHUKWUDI

OBA EREDIAUWA COLLEGE OF
LAW
FIRST CLASS
ADAMS TOYAKI NOSA
AGU CHIOMA CHIKA
NWANOLUE OGONNA OBIAMAKA
SOFOLUWE OLUWADAMILOLA
OLUWATONI
ONYEMAOBI ADAMMA IJEOMA
USOH-ABIA MOSES OKON

SECOND CLASS (UPPER DIVISION)
AGUEBOR PRECIOUS ISOKEN
AKHIGBE VIVIAN EFEMEN

ALI ISIAH IZUCHUKWU
AMIENGHEME OSEDIAME JOSHUA
ANDU ADEDOYIN AISHA
ANYANWU NKRIRU
AWOJINRIN SAMUEL BOLAJI
BELLO LYDIA BIODUN
CHINDA KINIKACHI ELEWAH
DANLADI JANE
EFFIOM ANIEFON ITA
EJIOFOR ZIKORA IJEOMA
EKAEM EMAYacky RICHARD
ENEGBE EMI
ENISAN ODUNYEMI BUKOLA
EZE RUTH CHISOM
EZENNIA ADAORA YVONNE
FAGBIYE OLUWATOYIN RITA
IBEANUSI JUSTICE EZENWA
IKUENAYO OMOTOLA FRANCA
ITIMA IYOROEBI VERA
IWUNZE OGOCHUKWU TINASEM
JAGUN JUMOKE ZULEEHAT
JEKADA KUZAYET COMFORT
JULIUS-AKAHOMEN ONOSEATE
JOKO YIHIYI
MAMODU HAFSAT AFIE
NARON NAANTEOGOER MAGDALENE
NDANUSA FATIMA SONIA
OCHONOGOR UGOCHUKWU
PREIOUS
ODIA LINDA UWA
ODIGIE IVY OSASUMWEN
OGUNMODEDE BERITCE
OLUWATIMILEHIN
OKPALUGO ADAORA
OKPOUDHU UZEZI
OLAGUNJU IDRIS AKINOLA
OLOGURE CHERUB MOJISOLA
OMOZUSI ADESUWA NKEM
OUNORAH ADA AMY
ONWUGBUFOR OGECHUKWU
NKIRUKA
OROVWUJE OBOPHENEMEVEWA
MERCILLINA
OSADIAYE ADESUWA EDNA
OSIGWE LOTANNA CARMINUS
OYENEYIN BOLARINWA
OLASUNKANMI SHEIDUN SHOLA
TINUBU OMOWUMI ABIMBOLA UGWU BIBIAN NDIDI
USMAN SADIYA UZOUKWU PRINCEWILL NNAMDI

SECOND CLASS (LOWER DIVISION)
ABOABA ABIODUN AYOOLA
ADEBIMPE KAFILAT YETUNDE
ADEBIYI ADEFEMI ABAYOMI
ADUN FELICIA ENIYE
AFOEGBA DIANNE TAMARADUBRA
AGAI BLESS EBITARE
EKIUGBO VERERE OLUWAFEMI
AKINDELE OLUWAFIMISADE AJOKE
AKINYERA FUNTO OLUBUKOLA
ALAOFIN RUTH OLUBUSOLA
ALBERT HAPPY IYOBOSA
AMADI ANITACHIGOZIN
ATOYEBI DAVID OLATUNJI
AYENI ESTHER OLOTOYE
AYUWU SUSSANA LUCKY
BABASOLA ABIMBOLA TITILAYO
CHINDAH CHIMENEM TONIA
DAHUWA HANIFA SALIHU
DAPO-FILANI ADESOLA MONISADE
EBUBECHUKWU CHIKA ADA
EZEGO CHIDINMA NORAH
IBIENE IBIEREFAGHA HAMLET
IBRAHIM MOHAMMED SOSA
IBORDOR OVIE MAGNUS
IRUH MIRIAM ONYEKA
JOHNSON BOLUTIFE OPEYEMI
ODEGBAMI ABISOYE FRANCES
ODELISON LAURA
OGAR SUSAN ALU
OGUNNEYE OLUWASOLA
OLUWAFISAYO
OSUAMKPE OSOMUKUME
EMMANUEL
SALIU HAUWA EMESO
UDOH OKWONG MOSES
WARRIE INIYE DEBORAH

COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF BIOLOGICAL SCIENCES (MICROBIOLOGY)
SECOND CLASS (UPPER DIVISION)
BELLO OLUWATOSIN KAFAYAT
BONN-OHIAERIAKU SALLY
EPHEL BOMA JEREMIAH
NKWONTA IFEANYI DAVID

SECOND CLASS (LOWER DIVISION)
AIGHOBAHI ABIEYUWA PEACE
AKHAMIE QUEEN AKUS
AMAGWULA ISABEL UCHECHI
DURUIHEOMA UCHEACHI NJIDEKA
EDUGBO ONOME MAVIS
ESHABUKO ELOHOR
LIVINGSTONE BELYnda AMY
NEZIANYA-UCHE AWELE
OCHEMEH MAIMUNA ELLAKECHE
ODUAH PRISCILIA ONYELUKA
OJIE OBIAGELI NICOLE
OKOY BLESSING ODIAKAUSE
OKOYE BLESSING VIVAIN
OKUNRINBOYE ADEWUNMI
TOLULOPE
OSAGIEDE OSAYANWAMBO VICTORY
SAIDU ABDULL- AZIZ
UMEAKA MIRACLE CHINECHELUM
UGBINE REUBEN JESSICA

DEPARTMENT OF CHEMISTRY
SECOND CLASS (LOWER DIVISION)
LAWAL, SHEFIU
OLAWOYE OLAWALE

DEPARTMENT OF COMPUTER SCIENCE
SECOND CLASS (UPPER DIVISION)
ANUSIONWU OBIAGELI VALERIE
NNAJI ANITA CHINYEERE
ODEMWINGE HARRISON
OSULA IMIEFAN LARRY

621
OSULA JUDE OSARETIN
ENEBELI MARGARET IFELUNWA
EGUAOLE LYNDA CHARITY

HON CALEB TERWASE
IBRAHIM ABIOLA LAWAL
IHEANACHO WILSON FEMI
CHIZURUM
NTUNGWE TERENCE NZUME
OBILEYE OLUFUNKE OLAJUMOKE
OJOMO ERIC IMARIAGBE
OYARONBI ADEGBOLABO
OLADIPUO

SECOND CLASS (LOWER DIVISION)
ABBEY-HART TUMINI TAMONUA
REGINALD
ABEL PREYE PRECIOUS
ADA’U MU’AMMAR ISAH
ADESINA BRIDGET SIDIKAT
ADESEMOWO ADEKUNLE
OLUWADAMILOLA
ADIELE CHIKEZIE GODSON
ADUMANU JANE CHIDINMA
AKERELE ANDREW OZEIVO
AKINBANJI DAYO
AKPAH CHRISTAIN
REUBEN MIDOSEBA LIVINGSTONE

ADEFISOYE, ADEOLA
ADELOYE, OLUWATOYOYOSI ADEBOMI
ADESIDA, ADEKEMISOLA BRIDGET
ADESINA, GLORIA ADEBUKOLA
ADEWUSI, OLUWAKEMI
OLUWAFUNKE
ADEWUYI, OLAYIWOLA SAMUEL
AGBASIMELO, EBUKA BENJAMIN
AJAKAIYE, OLUWATOYOSI
IYANULOLUWA
AJAKAIYE, KEHINDE AMOS
AJAYI, OLUWATOSIN GIFT
AKINPELU, OLUWOLE ADEDEJI
AKINSO, DOLAPO DAMIOLA
AKOSILE, KABIR OLATOKUNBO
AKUE, EHINIOKEN BENEDETTE
ALADUM KOZURU CHIDIEBERE

ANANA FRANKLYN IKECHUKWU
IFITEKHAIENTHEO
EKPA AYAKOB IME
EWEEKA PRINCE OSAYABAMWEN
IBENEKE DANIEL UCHE TEMITOPE
IJALUWOYE ADEYINKA EMANUEL
IHUOMA HENRIETTA ADANGOZI
IMOLOAME OBEHI
JERRY KALU CHIDINMA
JOLASINMI AKINDEJI
MADUKA TOCHUKWU MICHAEL
MATHIAS ALASUONYO NYENYE
NWANKWO CHINENYE SOPHIA
NWOSU IFEOMA JENNIFER
OBI IFEANYI SUNDAY
OGBONNA OGECHI CHIZUA
OGOBA DAKURO
OGUH CHUKWUEMEKA GERALD
OJEALORO MICHAEL
OJIMAH AKELACHI MICHAEL
OLANIREGUN TOSIN
ONYA CHIDI
ORUAMEN THEODORE PRECIOUS
ORUWURU ORITSEWEYINMI
OSARETIN HOPE OSAYI
OZORI TIMIPAH KRISTINA
UKATU LOTANNA COLLINS

COLLEGE OF PHARMACY
ALUKO, TEMITOPE LOVE
AMAH, AMARACHI EUCHARIA
CHINEDU
AROTIBA, FOLASADE MARGARET
ASHIRU, AYOTOMIWA
ATANDA, LATIFAT ABIDEMI
AYOGBE, NNEKA RITA
BUHARI, ZAINAB MODUPEOLA
CHIOKE, CHIOMA UDOKA
EDU, EWEZU AUGUSTINE
EIJOFOR, CHUKWUEBUKA LOTANNA
EKEFRE, EDIDIONG NSE
EKENG, JOSEPHINE NSA
EMENIKE, CHINWENDU FELICITY
EMILI, ONYINYE DAVINA
ERUCHALU, OBIJULU
EZEJI AKU, CHIDOZIE IKENNA
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<td>ARTS &amp; SOCIAL SCIENCES</td>
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<td>International Relations &amp; Strategic Studies</td>
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<td>v.</td>
<td>Mass Communication</td>
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<td>vii.</td>
<td>Food Science &amp; Technology</td>
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5. **HEALTH SCIENCES**

| i. | Biochemistry                                                            | 1 | 2 |   |   | 3 |
| ii. | Nursing                                                                 | 8 | 4 |   |   | 12 |
| iii. | Medical Laboratory Science                                              | 8 |   |   |   | 8 |
| iv. | Physiology                                                              | 1 |   |   |   | 1 |
| v. | Medicine                                                               |   |   |   |   | 297 |

6. **LAW**

|   | 8 | 49 | 34 |   | 89 |

7. **NATURAL & APPLIED SCIENCES**

| i. | Biological Sciences (Microbiology)                                     | 4 | 21 |   |   | 25 |
| ii. | Chemical Sciences (Industrial Chemistry)                              |   | 2 |   |   | 2 |
| iii. | Computer Science/Information Technology                               | 13 | 38 |   |   | 51 |

8. **PHARMACY**

|   | - |   |   |   | 70 |

**TOTAL**

| 24 | 218 | 253 | 907 |

**LIST OF GRADUATING STUDENTS – 2014/2015**

**DOCTORATE, MASTERS AND POSTGRADUATE DIPLOMA**

**Ph.D Law**

ALFRED ADHULIMHEN IYOHA

Ph. D Accounting

BESHIRU SANUSI
JOSIAH MARY
ALI-MOMOH OLUWAYEMISI BETTY
ISIAVWE DAVID TAIWO

**M. Sc Business and Management Studies**

EKIENABOR EHIJIELE
EMOKARO MICHAEL IGIE
IMUZEZE EREKPITAN OBEHI

**M. Sc Political Science and Public Administration**

OMORU AKPOSHER EDEFE DAVID

**GRADUATING STUDENTS (UNDERGRADUATE ) – 2014/2015**

**COLLEGE OF ARTS AND SOCIAL SCIENCES**
DEPARTMENT OF ECONOMICS & DEVELOPMENT STUDIES
FIRST CLASS HONOURS
NWANZE JOSEPH

SECOND CLASS HONOURS (UPPER DIVISION)
AJISAFE KABIRU
AKUBOR ANITA
ASEMEBOR VICTOR IPALIBOR
CHIESHE VITALIS
EKERETTE EZEKIEL PRECIOUS
ELETU OWOLABI MUHAMMED
GIWA OLANIKE SEFIYAT
KIRIKI ERNEST
MOHAMMED YUSUF
OKPA NYIME-ATE OKPA
ULASI CHINELO
UMEOZULU CHILOZIE MARTHA
YORLUE BLESSING

SECOND CLASS HONOURS (LOWER DIVISION)
DRESSMAN GODSPOWER
EKINE LINAH
MANGUE EDU-MAYE ANASTASIA
NWAGWU CHIKA
OGBETA EMMANUEL
SABO USMAN SIKAS
WILLIAMS EBIBOKEKIMI
ABDULLAHI AHMED
OGUEJIOFOR FRANKLIN

DEPARTMENT OF ENGLISH
SECOND CLASS HONOURS(UPPER DIVISION)
BEGRY, SAMUEL AKPO-EBI

SECOND CLASS HONOURS (LOWER DIVISION)
AFAH, JEFF BRALATEI
OGUNOYINBO, ADUEMI EMIFE
PAMOTEI, BIGHA FAMOUS

DEPARTMENT GEOGRAPHY AND REGIONAL PLANNING
SECOND CLASS HONOURS (UPPER DIVISION)
NWACHUKWU, CHINASA KINGSLEY

SECOND CLASS HONOURS (LOWER DIVISION)
MADUBUNYI, IKECHUKWU

INTERNATIONAL RELATIONS AND STRATEGIC STUDIES
FIRST CLASS HONOURS
SOLOMON FAITH OLUAMACHI
MACAULLEY IDAHOSA
OKORO CHARLES

SECOND CLASS HONOURS (UPPER DIVISION)
ULASI IJEOMA MALBY
JOHNSON AYODELE-WOLE
OSEMWENGIE PECULIAR
KEMINI DOUBRA
ASUAI WILLIAMS

SECOND CLASS HONOURS(LOWER DIVISION)
AYEMAYE PEREKIMI
ARIHI NGOZI
ADEDAYO FUNMILOLA
DENWARI KINGDOM
EMMANUEL JUNIOR
EBU ANGELA
ELIJAH RITA IME
FORD HARRY
HUSSAINI NASIR
IDEPE EKORIMOTIYEMO
JOLOWO IYELAGHABO
KUNOUN OLAERE
LOKO WOKENIMIYEN
ONYEKEWERE GENTLE
NWAIWU CHINONSO
OKARA PREYE
UYAKUMOH EMMANUEL
OLOFUA SUSAN
EKUBO KENNETH
THIRD CLASS HONOURS
EPERETUN EKOWEI G

DEPARTMENT OF MASS COMMUNICATION
FIRST CLASS HONOURS
CLEVER ALAWARI

SECOND CLASS HONOURS (UPPER DIVISION)
IBE-VALENTINA IBETE
RUFUS CYNTHIA
OGUAFOR, AMANDA IFEOMA
OMOROGBE ESTHER
GIBERT ARUMNO IDEKI
SANAMI DIETE KEN
METELEWA BOLA
AMADEIN, TOBOULAYEFA JENNIFER
EZETU DIVINE YINLAYEFA
EBIWEI PRECIOUS
MADUME, JOSEPH BOULDILON

SECOND CLASS HONOURS (LOWER DIVISION)
BONNY, FIKESE PATRICK
EVUGHAE JUBILEE
ITURU JOY
ISAIAH, ANDREW POWETEI
DAVIES INI-OBONG JEREMIAH
AYESAN, PRINCE
SANAMI STEPHEN
ADOLPHUS CATHERINE
JEMINE, EMMANUEL KESTIM
OJO AUGUSTINA MAFI
ZEBLON, SAMUEL
ISAAC EBIELETIE
LOKO DINBAIKIYO ISAIAH
NAWERI VINCENT
EBIWEI, JERUSALEM JERRY

THIRD CLASS HONOURS
DICK, GIFT SIYA
IBANICHUKA IBUNGE
JONATHAN WISDOM

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMIN.
FIRST CLASS HONOURS
ATIGBI, EOZUSIN FREEDOM

CLASS HONOURS (UPPER DIVISION)
EKIKI, AKPOFI DANIEL
ITIKPAN, DAVID OJUWERIA
JEMINE, PERETUN JUSTIN
LARODO, ADELEKE SIMIAT
OBETEN, EWA DAVID
OLOTU, SUNDAY EDEKPEVWE
TIEBEBEDIGHA, SYLVESTER
UBEBE, POEI ZACCHEUS

SECOND CLASS HONOURS (LOWER DIVISION)
ABEDNIGO, SAMUEL EBIWO
ABOYEWA, AGALI AGABRA
ABOYEWA, PEREFAGHA DARILUS
AJUBE, ERNEST
ALORO, FELIX
ALORO, PATRICK
ANIFOWOSE, BAYO
BAMA, POEIILA
BINIGBOLO, EBIEIN FAMOUS
EKPO, TOM ABASIFREKE
ELEMI, DENGHA
KEKEMEKE, INEREIKUWEI
KONBOFA, LILLIAN ERESINTEI
MEBINE, WINNIE DENBOFA
MISREAL, AGABRA ILUYEMI
MONE, FAMOUS MAJEI
NADE, GENEROUS
NANAOPIFI, MONDAY
NANAOPIFI, OTEGHA
NSUGA, ELA MARIA
ODODO, RAYMOND
OFEEYE, ALEX KIMIPAMINI
OKEREKE, CHINEDU
ORUAPALA, BRAVE BEN
OSAH, MARTINS
OZETO, KASIMU MUNIRU
PAMOTEI, AWOO WORISUWOTEI
PAMOTEI, KENNY
TAMARAUDAENEYFA
SAMAGBEYI, KEHINDE BEN
SHISHIMA, TERHILE
UGEH, UYAKHILETEI GOODLUCK
UKPEKE, IKIYOUTIYEMO
USMAN, YARIMA
YAYU, ODEINMINI
YAYU, SMART
YINGI, SANDRA

SECOND CLASS HONOURS (UPPER DIVISION)
ANYA, DORCAS UZO
JACOBS, RUTH UDOEZI
KEMBI, STEPHEN BIATERE
USMAN, GIDEON DADA

SECOND CLASS HONOURS (LOWER DIVISION)
CLEMENT, ONENGIYE-OFOH
DAHUWA, IMAMU
GEORGE, MARHAYES
OYINBO, TIMIBRA JUSTICE
STEPHEN, SUOYO
DEPARTMENT OF THEATRE ARTS
SECOND CLASS HONOURS (LOWER DIVISION)
ADIGWE, FAVOUR OROMINO
IWABI, KIRITEI SYLVANUS

COLLEGE OF BUSINESS AND MANAGEMENT STUDIES
DEPARTMENT OF ACCOUNTING
FIRST CLASS HONOURS
OKEKE PRINCESS CHISOM

SECOND CLASS HONOURS (UPPER DIVISION)
AMOS DAMINI PEACE
BRAIDE GO-oba
IMUWA EVELYN OMOSIGHO
IYOGUN IKOgHENE DIVINE
NWOKElUE SYLVIA CHINAZO
OKOROBOH GOODNESS EBINATEI
OGEREGBE IMUETINYAN
SORIWEI WARILAMINU
UGORJI JUSTINA

SECOND CLASS HONOURS (LOWER DIVISION)
ADEINBU GOODLUCK
AMOS WORI OwOYINPRE JONATHAN
UMORU EMMANUEL OSI
OGBEBO LEO
NAZIFI MIJABABA UMAR
OWI GLORY PETER

DEPARTMENT OF BANKING AND FINANCE
SECOND CLASS (UPPER DIVISION)
EFEDUE SIDA BLESSING
SECOND CLASS (LOWER DIVISION)
MADUBUIKE PRINCE

DEPARTMENT OF BUSINESS ADMINISTRATION
FIRST CLASS HONOURS
MOHAMMED IZE FARIDAT
THOMAS JEMIMA FOLARANMI
OTARU HAPPINESS MAYOWA

SECOND CLASS (UPPER DIVISION)
EBIBAI AMINA STEPHEN
EBUTE JESSICA ENUWA
JOHN ISAIAH PHILIP
JONAH SALOME
OGOH SIMEON ESIMOKUMO
OMONZANE ESTHER EDEGHONGHON
SOMPRE PETER TARI
UMAR TIJANI MOHAMMED

SECOND CLASS (LOWER DIVISION)
ABISERE ISETEI ERIC
ANIGILA NATHANIEL
ATUIN GIFT AZIBAYE
BINABO OYINTUAPERE NESTOR
CHINEKEZI CHIGOZIRIM
EBITARI FRANCA
IHIONU CHINAZA PRISCILLIA
INDIA TOMBRA
ISERE BLESSING INIEMIEKUMA
JEDAH JOHN EBISINTEIWEI
OJITE CHUKWUWNIKI BENJAMIN
OKORI ELIJAH EBI
OMOYOLOYE AYINDE
ONUH ANSELEM DANJUMA
PIUS ELIJAH JOY

OBA OKUNADE SIJUWADE
COLLEGE OF HEALTH SCIENCES
SCHOOL OF CLINICAL MEDICINE
ABARI MUSA ABDULLahi
ABIA ISRAEL MFON
ADAGA ADA
ADESANYA TITILOPE CATHERINE

ADETAYO ADETUTU
ADEYEKUN KOLADE MICHAEL
ADEYEYE STEPHEN OLOYEDE
AKEWUSOLA FAUZUDEEN KEHINDE
AKINGUNOYE ADEBAYO
ALLELN OSABIYI OYINDAMOLA
AMUTA LILIAN OLUOMA
ANAGHRA CHINENYE SHARON
ANTHONY ITORO PAUL
AWARITOMA NYEROVWO NELLY
CHUKWUDEBELU CHIBUIKE KIZITO
CHUKWUMA NNAEMEKA NKEM
EBIRERI EJIKO LAURYN
EFENURE UZOAMAKA UFUOMA
EGHWUBARE OGHENEVWOGAGA FAITH
EKE IZOGIE OSARO
EKWE JULIET
EMEGHEBO NNEKA DESTINY
ERINFOLAMI WEMIMO CHINYERE
EYIBE MICHAEL
FASUA AYODEJI
FIRI PRECIOUS
FUWAPE TEMILOLUWA ADEOLA
IGHILE IKPONMWOSA SHERIFAT
IKE NKEMKA OLISA
ILIYA JOEL JINOM
ILLAH-WILLIAMS OZEMEYOA PHILIP
IROWARISIMA TAMUNOIBUOMI
ISHAKA DAVID OKEIMUTE
IWUZE OKECHUKWU MARK
JEBE ADENIKE OMOTAYO
KONYEBAGU OSANEBI RAPHAEL
NWEKE ARINZE CHIZOBAM

NWOBi CHINYENDU JOYCE
NWOKELUE ELOCHUKWU
NWOSU HENRY CHUKWU EMeka
NZERIBE MIRIAMA CHIOMA
OJEAGA VICTOR OJEABUO
OKPO ERNEST ETIM
OLANREWAJU TOLULOPE OLADIMEJI
OmeFe EBELe OSADEBe
OMOLE VICTORIA IYANSe
ONAADE OLUWAfEMIfOla
ONU PETER KINGSLEY
UKPONG OBONGANWAN MBAKARA
UMAR AJIMASE ABDULRAHMAN

UYIGUE DEBORAH ADESUWA
IMOFEH FRANCIS IDEMUDIA
OKAGBUE EMEKA CHUKWU Dl
OKURUME CHRISTOPHER
UMMUL- KHLSUM ISA YELWA
UZOECHIMA NNAEMEKA CHIBUEZE
DAILA OBINNA
ILOABACHIE MICHAEL
ONONGUEKHIAN HARMONY OSEZUA
OSUNBOR OGHOGHO EFOSA
TUNYAN TIMI KARINA
MUHAMMAD BASHIR MARU
NWACHUKWU GERALD
UZOEWULU KENECHUKWU MOSES
ESEDUME VICTOR AZUKA
ETUK EDIDIONG OROK
IBIKUNLE OLUSEYI GABRIEL
NWEZEH VINCENT AFMA
OMANO ALLWELL EMENIKE
ALLEN OSABIYI OYINDAMOLA
FASUA AYODEJI ANTHONY
ONU PETER KINGSLEY

DEPARTMENT OF NURSING

FIRST CLASS HONOURS
ENIKANSELU, OLUWABUNMI BLESSING
SECOND CLASS (UPPER DIVISION)
OLAJIDE, OLUWAYEMISI
SALIU, ABIOLA AMINAT
TAIWO, BUSOLA OLOLADE
AKERELE, OLASUMBO ADEBOLA

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AMADI, ADMANDA KEMDIRIM
NDULUE, NDIDI DORATY
LAWANI AYOMIDE COMFORT
ADEGBITE, ELIZABETH TIMILEHIN
UMEZULU, CHISOM VIVIAN
OBE, OLUWASOGO RACHAEL
CHIKE, BENEDICTA
LUKMAN, ZAINAB MOHAMMED
IKUJUNI, OMOLARA ADENIKE

SECOND CLASS (LOWER DIVISION)
SOBIJOH, LETIMI SUCCESS
BAKARE, OLADIPUPO ABIODUN

COLLEGE OF LAW
FIRST CLASS HONOURS
ANANUM, IYORPENDA
NWOKOMA, SAMPLE ADAKU
OKPESEYI, OLATUNBOSUN
YANYANGBINI, PERE ERIC

SECOND CLASS HONOURS (UPPER DIVISION)
ABDURRAHMAN, MAIMUNA
ADEMUWAGUN, ADEOLA
AGAJERE, UFUOMA EMMAMUELLA
AKEN, MERCY MAMA
ALANI, PEJUOLA ZAINAB
AMADI, DANIEL CHIBUZOR
AMIFOR, PRISCA CHINONYE
AMUKO, OLUWATOYIN BEMIGHO
ANYANWU, SOMTOCHUKWU
ARUSURARE, OLIVIA UFUOMA
ASOBIE, IMMANUELLA NYEBUCHI
BENSTOWE, HAROLD
BONN-OJIARIKU, SANDRA
CHUKWUDUMULU, ANTHONY
EMEKA
DAHIRU., ABDULRAZAQ. RABIU (D/E)
DIRISU, OMUWA. (D/E)
DORE, EWORITSEMOGHA.
EUWERHERHE
EDURE TONBRA. T
EDWARD, QUEEN TAMUNOKURO
EBUNONU, AUGUSTA KELECHI
EKPO, PRAISE ITORO-OBONG

ELENWO, CHIZAM FORTUNE
ELIMINELE, EHIAGE SARAH
ENEH, VICTORY. EKENEKOT (D/E)
ENUMAH, OGE GLORIA
EVBENOBASE, RITA EVBENAYE
FASANMI, ADENIYI OLUWATOSIN
GARBA SOLOMON. JOSHUA
GARUBA, FAITH ONOSE
GBAMILA, BOYEMIGHAN
GODWIN-ADOLOR, VICTORY
IGWE, PHILIPA NJIDEKA

IKPEAWUJO, BLESSINGONYEKACHI
ILUYEMI, TIMIBRA ERNEST
ISIMEKHAI, DANESI ABDUL-HAFEEZ
JACK UDORI. MONDAY
JOB, FAITH CHIEMELEH
KAKURI, SADDIYAA LINA
LAWAL-RABANA, OLUWATOSIN
MODEY, PRECIOUS-CYNTHIA
MOHAMMED, HALIMATU
MOHAMMED, MARYAM ABDULKADIR
MUKORO, OGBENEYOMA THEODORA
NEEKA, BEATRICE BARILEDUM
JACOB
NWAKA, ADAORA ONYEKACHI
NWANISE, DORATHY ETIENAM
NWUAKWA, BLESSING
OBICHENDU, CHIDERALILIAN
OBOREH, ONOME
OGBEMERUN, ADEBANJO
OGBIMI JEREMIAH
OGHAYEI, MARTHA NIKE
OHAIJANYA, PRISCA CHISOM
OHANKA, EZINNAROHUBER
AJUBANA, MELBA
IFEANYICHUKWU
OKEREKE, CHIOMALINDA
OKUEYUGBO, OLUWADAMILOLA
DEBORAH
OKWILAGUE, SEMIRAH
OLUGBEWI, OLUWATUBI. OYERONKE
OMEHEN, MARHO
ONYEJIECHI, CHRISTIAN NDUBUISI
OROK-OJI, SALLY OYEB
ORUMWENSE, EBENEZER
SECOND CLASS HONOURS (LOWER DIVISION)

ABBREY-HART, IBITORU
ABDULRAHI, ABDURRAHI OGWU
ADAMU, FATIMA. NAGOGO
ADEYEKUN, EFEOLUWA
CHRISTOPHER
ADOKEME, DAVID TAMARAPREYE.
AGBATI OGUN, FADESHOLA
CHRISTIAN
AKINOLA, ADESOLA CASSANDRA
ALALI, JOEBA HORSFALL
ARO, SULIAT ADEDEJI
AYERE, ODEGUA FAITH
BODE, BETIKU, BABABUNMI
ARAMIDE
DIENYE, ATISI PEARL
EGENA, GERALDINE. OHEKPEJE
EEKWE, CHIDINMA
EKPOATTAI, MBUOTIDEN IME
ELUOZO, MERCY AJUMOKE
EYO, KUFRE MICHAEL
EZECHUKWU, BLESSING NKEM
EZEUCHENNE, IFUNANYA BEVERLY
FARINDE, BISOLA DEBORAH
IGIEBOR-JACOB, JANE
OSAGUMWENRO
ILUMA, DIAN PROCTOR
KELANI, CHRISTIANA ABIODUN
LAWAL, ADESEWA. KAREEMAT
MENSAY, ISIOMA PRISCA
MIAKPO, EMASO JUDE
Morgobuari, Mayowa Adebimpe
MUAZU, ABUBAKAR MAIMUNA
MUAZU, HAUWA
NDAKARA, MUOBO ZINO
NDIDI, HILLARY ETUNIM
NWANGWU, OGOCUWKU
UKAMAKA
NWOLISA, KENECHUKWU KENNETH
ODEBALA, GEORGE ASIMAGOR
OGUGUA, CHIDINMA EMMANUELLE
OKORO, MISAN
OMOLOYE, ANUOLUWA MERCY
ONUEKWA, NOREEN CHIZA.
ORHOMONOKAYE, OWIN
ORIADE, ADEDOYIN ADEWUMI
OWIE, JOSHUA OSAOGIE
OYAREDE, EBIKONBOERE
PEDRO, OLUWASEYI NATASHA
SYLVESTER, QUEEN ELIZABETH
THOMAS, MANU
UDEOGU, OGECHI SUSAN
UKPONG, ABASIFRIKE MICHAEL
WACHUKWU, SHULAMITE IHUOMA
WAKAMA, NGOZI JOB

COLLEGE OF PHARMACY

ABDULMALIK, AMINA TOZAVIZE
ACHIMALO, CHINEDU GABRIEL
ADELEKE, YETUNDE ABIODUN
AGBEYEKE, NNEKA CYNTHIA
AKAAZA, JENNIFER SEWVESE
ASAMAKA, EDNA ONYEKA CHUKWU
AZIZA, PRECIOUS AKPOMEDAYE
BALOGUN, HAMIRATOLUWAFISA
YOMI
BOLAJI, IDOWU IBRAHIM
BUSARI, RIDWAN ADEWALE
EHINEBO, ODION EDNA
EJIDOH, UGOCHINYEM NGOZI
IBE, MERCY OGBONNE
IMO, ORIE BARBARA
KANU, CHIDERA KAREN QUEEN
OBEGOR, OGHENEKARO CALEB
OGUNSOLU, EBUNMIDEOMOLARA
OKAFOR, CHIZOBA VALENTINE
OKAFOR, PROSPER SOPULUCHUKWU
OLOSUNDE, OLAMIDEAYOBAMI
ONYEDIKA, CHINEMELU MDORISANN
OROVWOTU, OGHENEVWEGBA
ENDURANCE
OSAZE-UZZI, OYENMWEN
OTEME, SANDRA
ONOMEDOGHO
SAKA, OLUFUNKE EMMANUELLA
TEIBO, GRACE FUNMILAYO
UMHENI, ITOHAN SANDRA
ANORUE, KELVIN OBINWANNE

COLLEGE OF ENGINEERING
DEPARTMENT OF PETROLUEM
FIRST CLASS HONOURS
AMEH JENNIFR KOPOGO
BAYARI FARIDA SALE

SECOND CLASS HONOURS (UPPER DIVISION)
AKAOLISA IFUNANYA OBIANAMMA
AKINLOYE SOLA DANIEL
OGUGUA MELVIN EMEKA
UNDELINKWO VERA ALILO

SECOND CLASS HONOURS (LOWER DIVISION)
MAKARABA EBIDISABOFA BLESSING
OKOLO SERAH NNEOMA
OKON JOSEPH EKPENYONG
UDOSEN UDOSEN EDOHOEKET

DEPARTMENT OF CHEMICAL
FIRST CLASS HONOURS
AJIDE TAIWO MARY

SECOND CLASS HONOURS (UPPER DIVISION)
AJIDE KEHINDE MARTHA
NKAGBU DEBORAH CHINAZA
NWANNA JOEL UCHECHUKWU
SOKUNBI BLESSING MOJISOLA

SECOND CLASS HONOURS (LOWER DIVISION)
AZIKE SOMTOCHUKWU JOSHUA
FEYISETAN OLUWASEUN TEMITAYO

THIRD CLASS HONOURS
ADEYINKA ADEKAYO ADEIBO

DEPARTMENT OF ELECTRICAL
FIRST CLASS HONOURS
BELGORE ASIA’U TALATU

SECOND CLASS HONOURS (UPPER DIVISION)
AGBORIANE TENNISON OJIROMUH
ANOZIE REMIGIUS UCHECHUKWU
KYPUS AYEBAESIN IKAYE
OKENYI MERCY NNEOMA
OMOSIGHO GOODNESSOLUWATTOBI
OSEGHALE OSEMUDIAMEN PATRICK
USO PATIENCE SONNY

SECOND CLASS HONOURS (LOWER DIVISION)
AKINLOSOTU OLUWAFISAYO JAMES
OBOREH OMOEFE EDOBE
UDUAK SAMUEL

DEPARTMENT OF COMPUTER
FIRST CLASS HONOURS
ODOHOFREH ITORO ITA

SECOND CLASS HONOURS (UPPER DIVISION)
EMAMI UWAOYIBOYAMI ANITA
OSO OLUWABUKUMI WILLIAMS
SUNDAY OSAMUYIMEN EMMANUEL

SECOND CLASS HONOURS (LOWER DIVISION)
SALISU BABA GARBA

CIVIL
SECOND CLASS HONOURS (UPPER DIVISION)
ABIA BONAVENTURE MFON
ANIETUM PRECIOUS
BALA MAI-DUDUGA TARIQ
BIDIKI TEJIRI PRECIOUS
CHUKWUEMEDEUA ANGEL MICHAEL
FEMI-IDRIS OLAYINKA
OJO EDOKPAYI OSAGIE NATHANAELE
OLAKANSE OLUWADAMILOLA
SOARES BOLAJI EBENEZER
SOTA EJIO OGHENETEGA

SECOND CLASS HONOURS (LOWER DIVISION)
OBONO GABRIEL EDU
ODIGIE ERASMUS AUSTIN
UTIEYIONE TUALE
WEST DAVID SHEDRACK

MECHANICAL
SECOND CLASS HONOURS (UPPER DIVISION)
ESSIEN KING NYONG
SAMBO OBED GARBA

SECOND CLASS HONOURS (LOWER DIVISION)
ATANDA OLAWALE OLUHIDE
EBOIGBE IYARE ANDREW
ERHIRHIE OGHENERUEMU
CHAMPION
HARUNA HARUNA JADA
MOHAMMED JOSEPH YUSUF

COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MICROBIOLOGY
SECOND CLASS HONOURS (LOWER DIVISION)
AKINBOBOLA COMFORT
AWUNORONYEKA EZIATA
BALA HADITH HADIZA
LUBI GODGIFT
NELSON-ANUMAKA ADAKU
ODIA DAVID EHRUMWENSE

THIRD CLASS HONOURS

AHMAD USMAN ABUBAKAR
FAYANJU OLUWATIMILEHIN

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
FIRST CLASS HONOURS
ANYADIGHIBE MIRIAM UCHENNA
ENYINNWA VINCENT OKORONKWO

SECOND CLASS HONOURS (UPPER DIVISION)
AISUEBEGUN PATRICK EJELE
AKPIRI SUSAN OMAGBITISE
ALIYU KAZIM
BALARABE JAAFAR SHAFIU
BOSAH OLISA SUNDAY
EBBELI HENRY OYITAREBI
EDEGBE PRECIOUS
EMELAH SOKARIBA LAWSON
IDIAGHE PATRICK GREAT
IHUNWA GERALD EBUKA
NWEKEALA MORGAN
OGWUDIRE CHIEMEKA ALEX
OKPU RADHARAH IBEL
OLAWUYI OYESHOLA HENRY
OMOKARO OSASUYI

SECOND CLASS HONOURS (LOWER DIVISION)
AHMED FAZIU
BALA HABITH HAFIZ
BALARABE AISHA
EBIOROBO JAMES
FORCADOS GODDAY
EGUEMA FANCY
IDOKO SUNDAY
IDRIS MUBARAQ
ISHIAKU RHINDI DAMOR
OMODAFE NELSON KESIENA
ABANI IZUCHUKWU
FASOYE AYO BAM

DEPARTMENT OF MEDICINAL LABORATORY SCIENCE

632
SECOND CLASS HONOURS (UPPER DIVISION)
AGBATA GLORY
DIKE LOTANNA ADESUWA
EVBUOMWAN JENNIFER
EZEWANNE OGOCHUKWU
JONATHAN DUINBAI JULIUS
NWANKWO KASIE
NWSIKE FIDELIS
OJAKOVO ADJARHO
OLABINJO TITILOLA
OLOOWOKERE OMOWUMI
OSAIKHUWUOMWAN UDIYIWE
YUSUF UMMULKHAIRI
YUNUSA YUSUF
UWADIA DEBORAH

SECOND CLASS HONOURS (LOWER DIVISION)
MALIK AYODEJI

THIRD CLASS HONOURS
AKIN-TAIWO OREOLUWA

DEPARTMENT OF PHYSIOLOGY
FIRST CLASS HONOURS
AIGBANGBEE
KEZIAH EZEE MWENHIAN
ANYANWU PRINCELY
CHUKWUNENYE

SECOND CLASS HONOURS (UPPER DIVISION)
ABIRI FARIDA OSIZEMETE
ALLI BLESSING OSELUMENOSEN
ASABOR WINNIFRED
OSADEBAMWEN
EGBE ESTHER VERVAL
JAJA LEAH EMMANUEL
OKE BABAWELE ADESOLA
OKUNDIGIE OSAYUWAMEN CYNTHIA
OLORUNFEMI AYEORIBE ABDODUN
ONYENDILEFU GIDEON CHIJINDU
SULE SAEED

SECOND CLASS HONOURS (LOWER DIVISION)
ADEOJO MOSHOOD ABIOLA
UBAH OMEREBERE
OKPA NWAKA PRECIOUS

DEPARTMENT OF ANATOMY
FIRST CLASS HONOURS
OLATOMIDE OLUWASEUN
OZOEMENA CHIADI

SECOND CLASS HONOURS (UPPER DIVISION)
AYUA SOLOMON
BROWN IBIFURO
DOGARA COMFORT
EBERECHUKWU UZOAMAKA
MARK-BALM OBUBELEBRA
OHUCHE CHINONSO FAVOUR
OKOJIE GRACE ITOHAN
OYARONBI OLUWADAMILOLA
PHILIPS REBECCA
THEOPHILUS NANYO
UTIP EKAETTE

SECOND CLASS HONOURS (LOWER DIVISION)
ABUBAKAR YASSIR
ADEBANJO ELIZABETH
AGBATOR BLESSING
AHMED HAMAMATA
AKINKUNMI ENIOLA
AZIKE CHIDUBEM
BELLO RISCE AMADIN
LEIZOU KIMIPA

DEPARTMENT OF BIOCHEMISTRY
SECOND CLASS HONOURS (UPPER DIVISION)
ABIODUN BUKOLA DANIEL
EZEKIEL FAITH SIMISOLA
OLORUNSHOLA OLUMIDE VICTOR
UZOIGWE UGOCHUKWU
CHUKWUEMEKA
UZOIGWE CHIDIEBERE NDUBISI

633
SECOND CLASS HONOURS (LOWER DIVISION)

INE-AKHABUE EHIDIAMEN CHARLES
EZEJIOFOR TOCHUKWU ONYEKA
<table>
<thead>
<tr>
<th>COLLEGE/DEPT</th>
<th>1&lt;sup&gt;ST&lt;/sup&gt; CLASS</th>
<th>2&lt;sup&gt;ND&lt;/sup&gt; CLASS UPPER</th>
<th>2&lt;sup&gt;ND&lt;/sup&gt; CLASS LOWER</th>
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<tbody>
<tr>
<td>ARTS &amp; SOCIAL SCIENCES</td>
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<tr>
<td>i. Economics &amp; Development Studies</td>
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<td>ii. English</td>
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<td>-</td>
<td>2</td>
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<tr>
<td>iii. Geography</td>
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<td>-</td>
<td>2</td>
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<tr>
<td>iv. International Relations</td>
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