# Prospectus of Postgraduate Programmes

# (2016 – 2018)

**School of Postgraduate Studies**
**Ahmadu Bello University**
**Zaria**

**June 2014**

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## FORWARD

The Ahmadu Bello University has continued to be a university of first choice especially in postgraduate studies. It continues to attract students in droves, both locally and internationally. Since its establishment in 1980, it has continued to grow; presently, there are over five hundred (500) programmes on offer, on part time and full time basis, both professional and academic.

The University is quite distinctive in its approach to student-centred learning, with a record of teaching excellence in many realms. It also has a large volume of high impact research in many specialised fields. This tradition of research excellence, and the mentorship inherent in the system has continued to attract students and staff alike to this institution. The vision of the University has been upheld, which has also continued to foster national, regional and international integration.

The Prospectus presents detailed information on approved postgraduate programmes on offer in the University. It should be noted, however that the development of new programmes is a continuous process and some were approved by the Senate after this edition has been published. An example of this is the Master's in Rural Finance at the Department of Business Administration. This and others shall be included in the next edition of this Prospectus.

Ahmadu Bello University has a very conducive learning environment. Zaria is also a very peaceful town with a lot of other specialised institutions, some of which are complimentary to ABU. Available sports facilities are among the best in the country. While we congratulate and welcome those who have chosen ABU for their postgraduate students, we hope that this document will assist others in making up their minds to do same.

You can visit the University website for further information. If you have any questions however, please do not hesitate to contact us.

**Prof. Sani A. Abdullahi**
Dean, School of Postgraduate Studies

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**PART 2**

**POSTGRADUATE PROGRAMMES**
**1.0 Faculty of Administration**
1.1 Department of Accounting
1.2 Department of Business Administration
1.3 Department of Local Government Studies
1.4 Department of Public Administration

**2.0 Faculty of Agriculture**
2.1 Department of Agricultural Economics and Rural Sociology
2.2 Department of Agronomy
2.3 Department of Animal Science

2.4 Department of Crop Protection
2.5 Department of Plant Science
2.6 Department of Soil Science

**3.0 Faculty of Arts**
3.1 Department of African Languages and Cultures
3.2 Department of Arabic
3.3 Department of Archaeology
3.4 Department of English and Literary Studies
3.5 Department of French
3.6 Department of History
3.7 Department of Philosophy
3.8 Department of Theatre and Performing Arts

**4.0 Faculty of Education**
4.1 Department of Arts and Social Science Education
4.2 Department of Educational Foundation and Curriculum
4.3 Department of Educational Psychology and Counselling
4.4 Department of Library and Information Science
4.5 Department of Physical and Health Education
4.6 Department of Science Education
4.7 Department of Vocational and Technical Education

**5.0 Faculty of Engineering**
5.1 Department of Agricultural Engineering
5.2 Department of Chemical Engineering
5.3 Department of Civil Engineering
5.4 Department of Communication Engineering
5.5 Department of Computer Engineering
5.6 Department of Electrical Engineering
5.7 Department of Mechanical Engineering
5.8 Department of Metallurgical and Materials Engineering
5.9 Department of Water Resources and Environmental Engineering

**6.0 Faculty of Environmental Design**
6.1 Department of Architecture
6.2 Department of Building
6.3 Department of Fine Arts
6.4 Department of Geomatics
6.5 Department of Industrial Design
6.6 Department of Quantity Surveying
6.7 Department of Urban and Regional Planning

**7.0 Faculty of Law**

7.1 Faculty Based Programmes
7.2 Departmentalised Postgraduate Diploma Programmes

**8.0 Faculty of Life Sciences**
**8.1** Department of Biochemistry
8.2 Department of Biology
8.3 Department of Botany
8.4 Department of Microbiology
8.5 Department of Zoology

**9.0 Faculty of Medicine**
9.1 Department of Chemical Pathology
9.2 Department of Community Medicine
9.3 Department of Human Anatomy
9.4 Department of Human Physiology
9.5 Department of Medicine
9.6 Department of Nursing Sciences
9.7 Department of Pathology

**10.0 Faculty of Pharmaceutical Sciences**
10.1 Department of Clinical Pharmacy and Pharmaceutical Practice
10.2 Department of Pharmaceutical and Medicinal Chemistry
10.3 Department of Pharmaceutics and Pharmaceutical Microbiology
10.4 Department of Pharmacognosy and Drug Development
10.5 Department of Pharmacology and Therapeutics

**11.0 Faculty of Physical Sciences**
11.1 Department of Chemistry
11.2 Department of Computer Science
11.3 Department of Geography
11.4 Department of Geology
11.5 Department of Mathematics
11.6 Department of Physics
11.7 Department of Statistics
11.8 Department of Textile Science and Technology

**12.0 Faculty of Social Sciences**
12.1 Department of Economics
12.2 Department of Mass Communication
12.3 Department of Political Science and International Studies
12.4 Department of Sociology

**13.0 Faculty of Veterinary Medicine**

13.1 Department of Veterinary Anatomy
13.2 Department of Veterinary Medicine
13.3 Department of Veterinary Microbiology
13.4 Department of Veterinary Pathology
13.5 Department of Veterinary Parasitology
13.6 Department of Veterinary Pharmacology and Toxicology
13.7 Department of Veterinary Physiology
13.8 Department of Veterinary Public Health and Preventive Medicine
13.9 Department of Veterinary Surgery and Radiology
13.10 Department of Veterinary Theriogenology and Production



# PART 1

# AHMADU BELLO UNIVERSITY

# ZARIA, NIGERIA.

## 1.1 PRINCIPAL OFFICERS OF THE UNIVERSITY



**His Majesty, Nnaemeka Alfred Ugochukwu Achebe, Obi of Onitsha**
Chancellor



**Alhaji (Dr.) Adamu Fika, CFR**
**(Wazirin Fika)**
Pro-Chancellor and Chairman of Council



**Prof.Kabiru Bala**
Vice Chancellor



**Prof. Sadiq Zubair Abubakar**
DVC Administration



**Prof. Danladi Amodu Ameh**
DVC Academic



**Alh. A.A. Kundila**
Registrar

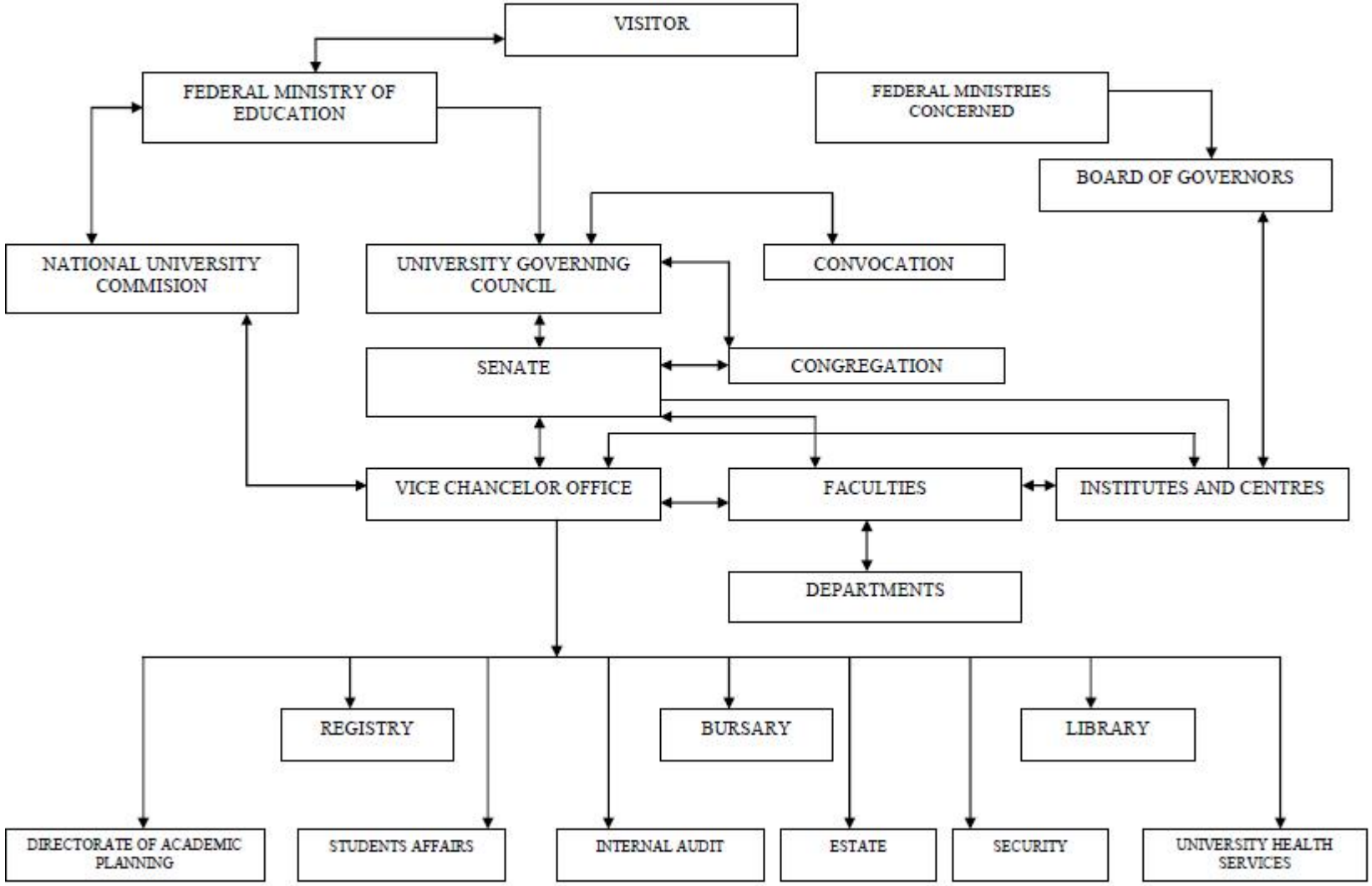


**Prof. Umar Ibrahim**
University Librarian



**Mal. Y. A. Hassan**
Bursar

## ABU ORGANOGRAM



**MANAGEMENT TEAM OF THE SCHOOL OF POSTGRADUATE STUDIES**



**Prof. Sani A. Abdullahi**
**Dean**



**Prof. O.O. Okubanjo**
**Deputy Dean (Main**



**Prof. M.K. Isa**
**Deputy Dean (Kongo**



**Mal. Aminu Ramalan**
**Resident Internal Auditor**



**Mal. Sharehu S. Biye**
**Finance Officer**



**Hamza Sani**
**Secretary**

### 1.1.2 IMPORTANT ADDRESSES

**Ahmadu Bello University, Main Campus, Zaria.**
***Address:*** Sokoto Road.
P. M. B. 1045, Samaru Zaria.

**Vice Chancellor's Office**
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**Information and Protocol Unit**
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Department of Local Government and Development Studies
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***E-mail:*** croppro@abu.edu.ng

Department of Plant Science
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***E-mail:*** plantscience@abu.edu.ng

Department of Soil Science
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**Faculty of Arts**
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Department of English& Literary Studies
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Department of African Languages and Cultures
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Department of Archaeology
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Department of History
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Department of Arabic
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Department of Philosophy
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Department of Arts and Social Science Education
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Department of Educational Foundation and Curriculum
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Department of Science Education
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Department of Water Resources and Environmental Engineering.
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Department of Communication Engineering
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Department of Computer Engineering
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Department of Electrical Engineering
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Department of Architecture
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Department of Fine Arts
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Department of Industrial Design
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Department of Urban and Regional Planning
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Department of Public Law
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Department of Biology
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***E-mail:***

Department of Botany
***Address:*** Main Campus ABU Zaria
***E-mail:***

Department of Zoology
***Address:*** Main Campus ABU Zaria
***E-mail:***

**Faculty of Medicine**
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Department of Chemical Pathology
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Department of Community Medicine
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***E-mail:*** commed@abu.edu.ng

Department of Human Anatomy
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***E-mail:*** anatomy@abu.edu.ng

Department of Human Physiology
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Department of Medicine
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***E-mail:*** medicine@abu.edu.ng

Department of Haematology
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Department of Medical Microbiology
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Department of Veterinary Parasitology and Entomology
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Department of Veterinary Pathology
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***E-mail:*** vetpath@abu.edu.ng

Department of Veterinary Physiology
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***E-mail:***vetphys@abu.edu.ng

Department of Veterinary Public Health and Preventive Medicine
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Department of Veterinary Surgery and Radiology
***Address:*** Main Campus ABU Zaria

Department of Veterinary Medicine
***Address:*** Main Campus ABU Zaria

Department of Veterinary Microbiology
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Department of Veterinary Pharmacology and Toxicology
***Address:*** Main Campus ABU Zaria

**Institute of Administration**
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P. M. B. 1013, Zaria.

**Centre for Biotechnology Research and Training**
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***E-mail:*** cbrt@abu.edu.ng

**Centre for Energy Research and Training**
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***E-mail:*** cert@abu.edu.ng

**Equipment Maintenance & Dev Centre**
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***E-mail:*** emdc@abu.edu.ng

**Centre for Historical Research and Documentation (CHRD) - Arewa House**
***Address:*** Rabah Road, Kaduna
***E-mail:*** arewahouse@abu.edu.ng

**Centre for Islamic Legal Studies (CILS)**
***Address:*** Main Campus ABU Zaria
***E-mail:*** cils@abu.edu.ng

**Institute for Agricultural Research (IAR)**
***Address:*** Institute of Agricultural Research,
Samaru, P. M. B. 1044, Zaria.
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iar@abu.edu.ng

**I. A. R. Substations:**
***Address:***Agriculture Research Station,
P. O. Box. 1062, Kano.
***Address:***Irrigation Research Station, Kadawa,
P. O. Box. 1062, Kano.
***Address:***Irrigation Research Station, Bakura,
P. O. Box 85, Talata Mafara, Sokoto State.

**Division of Agricultural Colleges (D.A.C.)**

***Address:*** Division of Agricultural Colleges,
P. M. B. 1082, Zaria.
***E-mail:*** dac.abu@skannet.com
dac@abu.edu.ng

**Colleges of D. A. C.**
College of Agriculture,
Kabba, Kogi State.
College of Agriculture, Samaru.
P. M. B. 1058, Zaria.
***E-mail:*** provostadac@abu.edu.ng
College of Agriculture and Animal Science,
P. M. B. 2134, Kaduna.
***E-mail:***

**Institute of Education**
***Address:*** Institute of Education,
Ahmadu Bello University,
P. M. B. 1048, Zaria.
***Website:*** www.ioe-abu.edu.ng

**A.B.U. Teaching Hospital**
***Address:*** A.B.U. Teaching Hospital,
P. M. B. 1026, Zaria.

**National Animal Production Research Institute (NAPRI)**
***Address:*** National Animal Production
Research Institute, Shika,
P. M. B. 1096, Zaria.
**E-mail:** director@napri.ng.org
**Website:** www.napri.org

**NAPRI Substations**
Beef Research Station, P. M. B. 1011,
Talata Mafara, Zamfara State.

Small Ruminant Research Station,
Ubiaja, Edo State.

Swine Research Station, P. M. B. 2221,
Otukpo, Benue State.

**National Agricultural Extension & Research Liaison Services**
***Address:*** National Agricultural Extension &
Research Liaison Services, Ahmadu
Bello University (main campus),
P. M. B. 1044, Zaria.
***Tel: +234-69-879447***
***E-mail:*** director@naerls.gov.ng
***Website:*** www. naerls.gov.ng

**Institute of Computing & ICT**
***Address:*** Iya Abubakar Computer Centre,
Ahmadu Bello University, Zaria.
***E-mail:*** iacc@abu.edu.ng

**Ahmadu Bello University Press Limited**
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Limited, P. M. B. 1094, Zaria.
***E-mail:*** abupresslimited2005@yahoo.co.uk

**Ahmadu Bello University Consultancy Service Limited**
***Address:*** Former Institute of Health Building
Ahmadu Bello University, Main Campus,
Zaria.
***E-mail:*** abucons@yahoo.com

**Demonstration Secondary School**
***Address:*** Main Campus ABU Zaria
***E-mail:*** dss@abu.edu.ng

**National Universities Commission**
***Address:*** National Universities Commission,
Aja Nwachukwu House, Plot 430
Aguiyi-Ironsi Street, Maitama District,
P. M. B. 237, Garki G.P.O.,
Abuja, Nigeria.
***Website:*** www.nuc.edu.ng

**Joint Admission and Matriculations Board**
***Address:*** Joint Admission and Matriculations
Board, Suleja Road, Bwari, P. M. B.
189, Abuja.

**Committee of Vice- Chancellors**
***Address:*** Committee of Vice Chancellors,
4 Idowu Tailor Street, P. M. B. 12022,
Victoria Island, Lagos.
***E-mail:*** cvc-nigeria@yahoo.com

### 1.1.3. SOURCES OF INFORMATION

1. **Admissions (Postgraduate)**
Dean/Secretary School of
Postgraduate Studies,
SPGS, Adjacent Drama Village.
ABU (Main Campus) Zaria.

2. **Examinations and Transcript Matters**
Examinations Officer,
Academic Office
Senate Building, ABU Zaria.

3. **PG Fees**
Secretary, School of Postgraduate
Studies, ABU Zaria.

4. **Hostel and Off-Campus Accommodation**
Accommodation Officer,
Students Affairs Division
Senate Building, ABU Zaria.

5. **Financial Aid, Loans, Scholarships and Prizes**
Career Officer, Students Affairs Division, Senate Building, ABU Zaria

6. **Guidance and Counseling Centre**
Guidance and Counseling Officer,
Near Amina Hall, Main Campus
ABU Zaria.

7. **Registration and Matriculation Matters**
Records Officer (Academic),
Senate Building, ABU Zaria.

8. **Sports and Recreation**
The Director of Sports,
New Gymnasium
Main Campus ABU Zaria

9. **University Health Services**
The Director, University Health Services, Sick Bay,
Main Campus ABU Zaria.

10. **Security, Fire, Theft and Accidents**
The Coordinator of Security Services
Or The Chief Security Officer,
Security Office, Main Campus
ABU Zaria

11. **Passages and Immigration**
Housing and Passages Officer
Senate Building, ABU Zaria.

12. **Postal Services**
*Officer*-in-Charge
University Postal Service
Vice - Chancellor's Office
ABU Zaria.

## 1.2 HISTORY OF ABU POSTGRADUATE STUDIES

**1.2.1** The Ahmadu Bello University was established in October 1962. The University presently has a population of about 30, 000 undergraduate and 9, 000 postgraduate students drawn from various parts of Nigeria, from other African countries as well as from other parts of the world.

With twelve faculties, one School of Postgraduate Studies, five Research Institutes and six specialized Centres, the University offers a wide range of opportunities for postgraduate research in Administration, Agriculture, Arts, Education, Engineering, Environmental Design, Law, Medicine, Pharmaceutical Science, Physical Sciences, Biological Sciences, Social Sciences and Veterinary Medicine.

**1.2.2** The Postgraduate School was established in 1980 to enable the University achieve a higher degree of emphasis and coordination in its postgraduate training and research. The School was also charged with the responsibility of assisting Departments improve training programmes to provide qualified manpower for the University, other Universities, private sector, institutions of higher learning, public corporations and parastatals, federal and state governments. Recently, The Ahmadu Bello University along with the University of Ibadan and the University of Nigeria Nsukka have been charged with the responsibility of producing the needed manpower for other tertiary Institutions hence they should place more emphasis on postgraduate studies. This position has re-iterated by the Council of the University in its 2013 retreat.

**1.2.3** The School of Postgraduate Studies Management having largely addressed the challenges it inherited, is now poised to move Postgraduate Studies in the Ahmadu Bello University to another level. The thrust of this move lies in the automation of several activities and service delivery by the School commencing with the 2013/2014 session.

## 1.2 MANDATE AND OBJECTIVES OF THE SCOOL OF POSTGRADUATE STUDIES

### 1.2.1. Mandate

According to Statute 21 which established the Postgraduate School (now School of Postgraduate Studies, the functions of the Postgraduate School shall be:

a. responsible for the coordination of postgraduate programmes of the University including planning, coordination, administration and admission to programmes of study:
b. to recommend on the provision of appropriate facilities for postgraduate work and to regulate the disbursement of funds allocated for postgraduate work:
c. The regulation and enhancement of the quality of postgraduate instruction and research in the University. This shall include educational exchange and contact within Nigeria and where necessary outside:
d. promotion of publication of results of postgraduate studies:
e. to monitor and evaluate the progress of work and to report to Senate at least once a year:
f. to publicize the postgraduate activities of the University with a view to attracting enrolment and financial support from governmental, industrial and other bodies for the extension of these activities.

### 1.2.2 Objective

The main objective of postgraduate studies in the Ahmadu Bello University is to further develop the spirit and culture of enquiry in the graduate students. This objective is attainable by training such students in research within an environment that guarantees academic freedom, intellectual independence and individual creativity. The environment guarantees and provides a conducive environment for basic/academic researches; applied as well as researches for development. The Ahmadu Bello University has unfortunately not fared well in the latter category of researches.

## 1.3 PHILOSPHY, VISION AND MISSION OF THE SCHOOL OF POSTGRADUATE STUDIES

### 1.3.1 Philosophy

The School of Postgraduate Studies, Ahmadu Bello University shall create and nurture a conducive learning environment that maximizes creativity and inspires enquiry in the conduct of postgraduate studies to enable the University occupy a place of honour in a competitive, quality driven world of knowledge.

### 1.3.2 Mission

The School of Postgraduate Studies, Ahmadu Bello University is committed to ensuring an enabling environment for cutting edge postgraduate research and training that is accessible to men and women of all races without barriers for the advancement of humanity.

**1.3.3 Vision**

To assist Ahmadu Bello University to be a highly rated and universally-acclaimed Centre of Excellence which provides graduate training in all disciplines that is nurtured by the spirit of enquiry, competitiveness and knowledge production of the highest standard.

# CHAPTER 2

# ADMINISTRATION

## 2.1 PHYSICAL FACILITIES

### 2.1.1 Location

Until recently, the Postgraduate School was located in the former Vice Chancellor's complex adjacent the Senate building in the Main Campus. Following the approval by the University management that the PGS relocates to the former Institute of Development Research (IDR) adjacent the University dam, the PGS has in conformity, relocated to the new PGS in the first week of September 2010. This was followed by rehabilitation of the erstwhile IDR Building. The Auditorium has also been completely transformed into an International standard conference facility.

The pictures below present views of the Ahmadu Bello University, School of Postgraduate Studies.



***Fig. 1**: The Front view of the School of Postgraduate Studies, ABU Zaria.*



***Fig.2**: A rooftop view showing the ABU dam in the background*



***Fig. 3**: A Christmas tree within the School complex*



***Fig. 4:*** *Southern wing of the School complex*



***Fig. 5:*** *The main entrance into the School complex*




***Fig. 6:****Entrance to the School's auditorium.*




***Fig 7:*** *Interior of the school's Board room.*




***Fig. 8:*** *Interior of the School's auditorium.*

## 2.2 ADMINISTRATION

The Postgraduate School is headed by a Dean, usually a Professor, who is appointed by the Vice Chancellor. He is assisted by two Deputy Deans, a School Secretary, usually a Deputy Registrar, and a team of senior and junior administrative staff. In addition, a Finance Officer manages the accounts of the School. The Organogram next page shows the current administrative structure of the School of Postgraduate Studies

### 2.2.1 Leadership of the School of Postgraduate Studies

On the 14 of June 2010, Prof. A.A. Joshua, former Dean, Faculty of Arts, assumed duty as the 10th Dean of the Ahmadu Bello University Postgraduate School. He is currently assisted by 2 Deputy Deans viz., Prof. A.Z. Hassan and Prof. Bashir Ibrahim for the Main and Kongo Campuses respectively.

### 2.2.2 Deans

Ten Deans have headed the School ofPostgraduate School from its inception to date.

**Table 2.1***: Deans of the Postgraduate School from inception.*

| | Name | | Tenure |
|---|---|---|---|
| 1. | Prof. A.N. Mohammed | - | 1980 – 1981 |
| 2. | Prof. G.E. Osuide1981 | - | Sept.1987 |
| 3. | Prof. D.I. Saror | - | Oct. 1987 – Oct. 1991 |
| 4. | Prof. E.G. Kolawole | - | Nov. 1991 – Apr. 1992 |
| 5. | Prof. D. Mohammed | - | May 1992 - Jan. 1996 |
| 6. | Prof. J.Y. Olayemi | - | Jan. 1996 – Apr. 1999 |
| 7. | Prof. S.B. Ojo | - | May 1999 – May 2004 |
| 8. | Prof. JU Umoh | - | Jun 2004 – Feb. 2007 |
| 9. | Prof. S.A. Nkom | - | March 2007 – June 2010 |
| 10. | Prof. A.A. Joshua | - | June 2010 - June 2014 |
| 11. | Prof. A.Z. Hassan | - | July 2014 – August 2015 |
| 12. | Prof. Kabir Bala | - | Sept. 2015 – Date. |

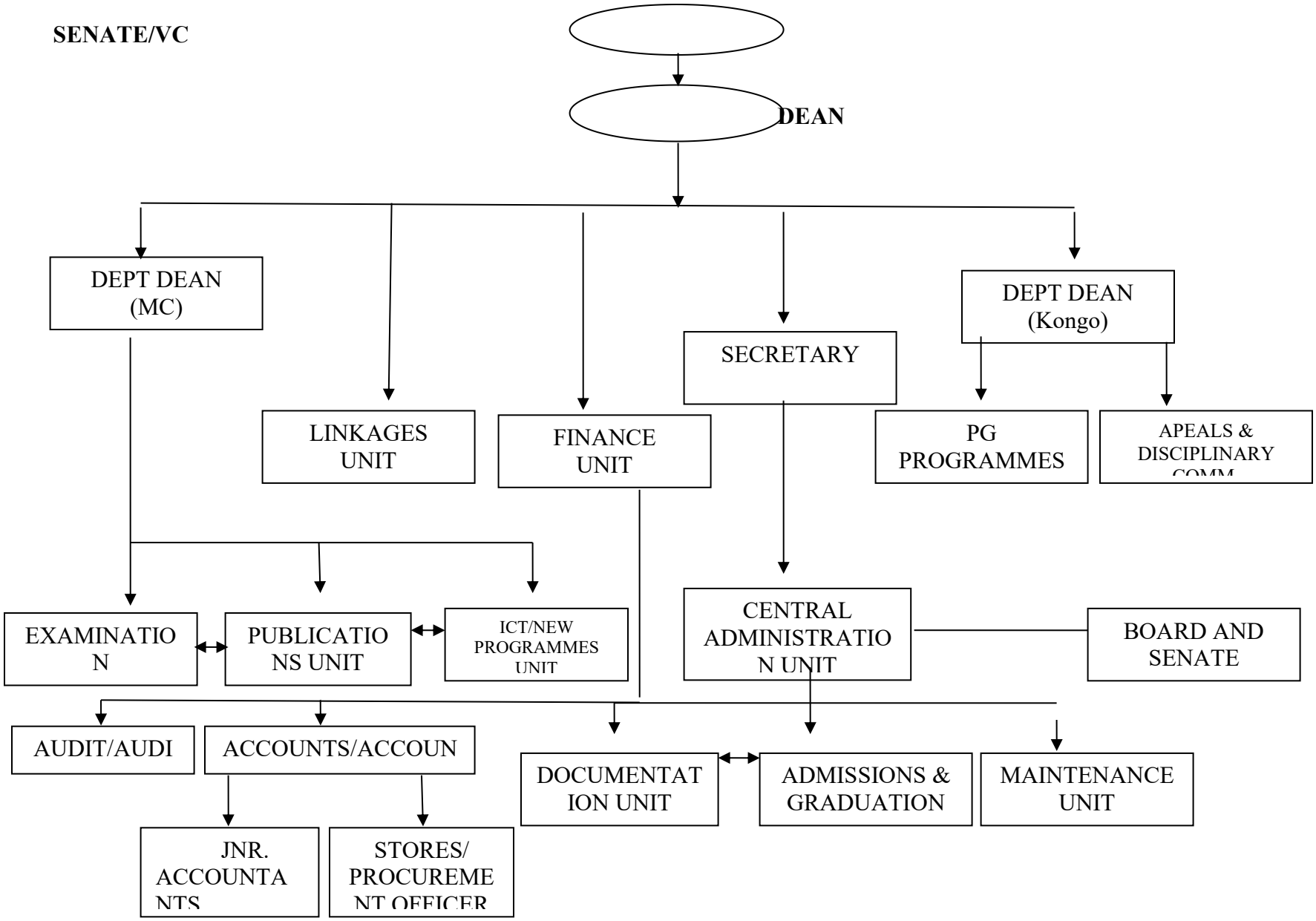

SENATE/VC
DEAN
DEPT DEAN (MC)
LINKAGES UNIT
FINANCE UNIT
SECRETARY
DEPT DEAN (Kongo)
PG PROGRAMMES
APEALS & DISCIPLINARY
EXAMINATIO N
PUBLICATIO NS UNIT
ICT/NEW PROGRAMMES UNIT
CENTRAL ADMINISTRATIO N UNIT
BOARD AND SENATE
AUDIT/AUDI
ACCOUNTS/ACCOUN
DOCUMENTAT ION UNIT
ADMISSIONS & GRADUATION
MAINTENANCE UNIT
JNR. ACCOUNTA NTS
STORES/ PROCUREME NT OFFICER

**Fig. 10:***Organogram of the School of Postgraduate Studies*

### 2.2.3 Operations

The administrative services of the School are undertaken by several senior and junior administrative staff in addition to the Dean and Deputy Deans (Table 2). The Secretary of the School coordinates the administrative services of the School.

Activities of the School are executed by the 2 principal components viz.: the Coordinating (SPGS) and the Operational (Faculties and Departments) organs. Whereas the Coordinating arm consists of the management and staff of the School, the Operational arm consists of the 12 Faculties, over 80 Academic Departments and a research centre.

### 2.2.4 Staffing

The table below enumerates the Staff of the SPGS while the Administrative Structure has been captured by the earlier Administrative chart (Organogram) of the School.

**Table 2.2:***School of Postgraduate Studies Staff list*

| S/N | Name | Designation |
|---|---|---|
| 1. | Prof. Kabir Bala | Dean |
| 2. | Prof. Gideon S. Bawa | Dep. Dean (MC) |
| 3. | Prof.Bashir Y. Ibrahim | Dep. Dean (KC) |
| 4. | Mal Alhassan Garba | Secretary |
| 5. | Mal. Yahaya Yakubu | Finance Officer |
| 6. | Musa Onivehu Moru | Resident Internal Auditor |
| 7. | Mr. John Ajegene | Chief Confidential Secretary |
| 8. | Mrs. Lydia D. Lambaya | Senior Assistant Registrar |
| 9. | Mr. Friday James | Assistant Registrar |
| 10. | Mrs Aisha J. Mohammed | Assistant Registrar |
| 11. | Mal. Salisu H. Ibrahim | Assistant Registrar |
| 12. | Mr. Sunday D. Adeleye | Administrative Officer |
| 13. | Mal. Ibrahim Adamu | Principal Executive Officer I (Admin.) |
| 14. | Mrs Sa'adatu Dewu | Principal Executive Officer II (Admin.) |
| 15. | Mr. Abdurazaq A. Ozigi | Snr. Systems Analyst |
| 16. | Mal. Mohammed Wada | Computer Operator I |
| 17. | Mal. Tukur Garba | Senior Store Officer |
| 18. | Mrs. Rose Nwokorie | Senior Store Officer |
| 19. | Mr. L.O. Yusuf | Asst. Chief Secretary |
| 20. | Mr. Inuwa Abdullahi | Chief Clerical Officer |
| 21. | Mrs. Charity Gimba | Chief Secretarial Asst. |
| 22. | Mrs. Funke E. Odeyemi | Chief Secretarial Asst. |
| 23. | Mr. Badiru Amupitan | Higher Executive Officer (Accounts) |
| 25. | Mal Surajo N. Tukur | Accountant |
| 26. | Mal Ibrahim Brigade | Accountant |
| 27. | Mal. Nuhu Ayuba | Auditor |
| 28. | Mrs. Amina Yakubu | Librarian |
| 29. | Mr. Aminu Haruna | Higher Executive Officer (Admin.) |
| 30. | Mal. Mohammaed A. Ibrahim | Chief Clerical Officer |
| 31. | Mal. Adamu Umar Farooq | Executive Officer |
| 32. | Mr. Ben Nwachukwu | Clerical Officer |
| 33. | Mr. Simon Sani | Chief Driver |
| 34. | Mal. Sani Yusuf | Driver |
| 35. | Mal. Umar Shehu. | Driver |
| 36. | Mal. Bashir Yusuf | Driver |
| 37. | Mal. Mohammed Aliyu | Driver |
| 38. | Mal. Musa Abba | Asst. Housekeeper |
| 39. | Mr. Yakubu Gam | Asst. Housekeeper |
| 40. | Mal. Abdulsamad Tukur | Office Assistant |

| | | |
|---|---|---|
| 41. | Mal. Kabir Musa | Officer Assistant |
| 42. | Mal Hassan Abdulkadir | Office Assistant |
| 43. | Mal. Salisu Musa. | Officer Assistant |
| 44. | Mal. Ibrahim A. Musa | Officer Assistant |

## 2.3 POSTGRADUATE STUDIES COMMITTEES

Whereas the management of the School is charged with the day to day management of the School, the Board of the School as well as several committees are responsible for the consideration and approval of submissions to the School prior to it being forwarded to the Senate.

These committees include:

### 2.3.1 School of Postgraduate Studies Board

*Membership of the SPGS Board:*

1. Dean, SPGS - Chairman
2. Dep. Dean, (Main Campus) - Dep. Chairman
3. Dep. Dean, (Congo Campus) - Dep. Chairman
4. University Librarian
5. Chairman/Rep., University Board of Research
6. Director, Directorate of Academic Planning and Monitoring
7. Director, National Animal Production Research Institute
8. Director, Centre for Energy Research and Training
9. Director, Institute of Agricultural Research
10. Director, National Agricultural Extension and Research Liaison Services
11. Dean, Faculty of Administration
12. Dean, Faculty of Agriculture
13. Dean, Faculty of Arts
14. Dean, Faculty of Education
15. Dean, Faculty of Engineering
16. Dean, Faculty of Environmental Design
17. Dean, Faculty of Law
18. Dean, Faculty of Life Sciences
19. Dean, Faculty of Medicine
20. Dean, Faculty of Pharmaceutical Sciences
21. Dean, Faculty of Physical Sciences
22. Dean, Faculty of Social Sciences
23. Dean, Faculty of Veterinary Medicine
24. Asst Dean, Faculty of Administration
25. Asst Dean, Faculty of Agriculture
26. Asst Dean, Faculty of Arts
27. Asst Dean, Faculty of Education
28. Asst Dean, Faculty of Engineering
29. Asst Dean, Faculty of Environmental Design
30. Asst Dean, Faculty of Law
31. Asst Dean, Faculty of Life Sciences
32. Asst Dean, Faculty of Medicine
33. Asst Dean, Faculty of Pharmaceutical Sciences
34. Asst Dean, Faculty of Physical Sciences
35. Asst Dean, Faculty of Social Sciences
36. Asst Dean, Faculty of Veterinary Medicine
37. Secretary SPGS - Secretary

**The Registrar and Bursar or their representatives are in attendance.*

*Functions*

The Postgraduate School Board shall be the principal body of the School. It shall have the power to consider, enact and implement policies on research matters with the following responsibilities:

(a) To initiate policies and act on matters affecting them.
(b) To approve, publish and monitor rules governing postgraduate programmes.

(c) To recommend to the Senate of the Ahmadu Bello University for approval through the Academic Planning Committee proposals for introducing new Courses and Programmes.
(d) To encourage scholarship, scholarly research and creative academic activities.
(e) To approve, modify or reverse actions taken by its committees.
(f) To regulate and control the activities of postgraduate study matters in the Faculties etc.

**2.3.2 School of Postgraduate Studies Management Committee**

*Membership*

The membership of the School Management Committee is as follows:

1. Dean, School of Postgraduate Studies (Chairman).
2. Deputy Deans of the School.
3. Secretary, School of Postgraduate Studies.
4. Finance Officer.
5. Resident Internal Auditor

*Functions*

The School of Postgraduate Studies Management Committee is the principal body responsible for the running of the School. This committee meets once weekly or at any other time as the need arises.

This committee has the responsibility of:

1. Evaluating the progress of the School administration with the view to suggesting ways of improvement.
2. Collating and analysing submissions to the School Board and subsequently the Senate.
3. Make any recommendation towards the smooth running of the School.

**2.3.3 School of Postgraduate Studies Board**

The School of Postgraduate Studies Board has over time delegated responsibilities to four Committees viz.:

*The Curriculum Committee:* Considers and acts on submissions from the Faculties in respect of postgraduate courses and programmes and make recommendations on them to the Board.

*The Appeals and Disciplinary Committee:* Considers all matters requiring disciplinary action and recommending its decisions to the Board.

*The Academic Policy and Standards Committee:* Considers and recommends policies and rules related to postgraduate education to the Board.

*The Research Committee:* Considers and recommends policies, rules related to research and initiate relationship with other research establishments within and outside the University.

*New Programmes Committee:*Considers requests for new PG programmes from Departments and makes recommendation to the Board for its consideration.

**2.5.4 Faculty Postgraduate Studies Board**

Each Faculty authorized to offer a postgraduate degree shall have, in addition to Departmental postgraduate Studies Committees, a Faculty Postgraduate Studies Board. Until recently, this Board was referred to as the Faculty Postgraduate Committee.

*Membership*

1. *Dean of Faculty - Chairman
2. *Assistant Dean, (PG) - Vice Chairman
3. *All Heads of Departments
4. *All Departmental Postgraduate Coordinators
5. All Professors in the Faculty
5. Faculty Officer - Secretary

** To be represented by the Asst/Deputy Dean if a PG Student or does not have a PhD.*

Each faculty should at the beginning of each session, submit the list of the memberships to SPGS Board for the records.

*Functions*
The Committee shall be responsible for the conduct and management of the postgraduate programmes in its Faculty. The Committee's functions shall include:

(a) Formulating rules and procedures relevant to the Faculty higher degree programmes within the policies established by the Postgraduate School Board and the University.
(b) Publishing and making available to students the policies, rules and procedures relevant to the Departmental higher degree programmes.
(c) Considering and recommending actions on proposed higher degree courses and curricula for consideration by the School of Postgraduate Studies Curriculum Committee.
(d) Ensuring that procedures are followed in all Postgraduate Studies matters.
(e) Recommending lecturers for appointment as postgraduate students' supervisors, and reviewing their performances.
(f) Recommending, for approval, students' admission.
(g) Any other duty that may be assigned by the School of Postgraduate Studies Board.

### 2.5.5 Departmental Postgraduate Studies Committee

The shall be in each department running postgraduate programmes, a Departmental Postgraduate Committee with responsibility for advising and making recommendations to the Faculty (Postgraduate) Board in respect of the admission and registration of students, fields of study, dissertation title, appointment of supervisors and appointment of examiners. It shall also ensure the regular attendance by .teaching and research in the department.

*Membership*
The Departmental Postgraduate Studies Committee shall be composed of:
1. *Head of Department - Chairman
2. Departmental PG Coordinator
3. All Professors in the Department
4. All holders of terminal Masters and PhD degrees in the Department
4. Departmental Secretary/PG Desk Officer - Secretary

**Departmental PG Coordinator chairs the meetings if the HOD does not hold a PhD.*

*Functions*
The Committee is responsible for the conduct and management of postgraduate programmes in the Department. The specific functions of the committee shall be:

1. Formulation of rules and procedures relating to PG studies within the framework of the policies of the postgraduate school.
2. Making available to students PG policies and guidelines.
3. Considering and making recommendations on proposed postgraduate courses and programmes.
4. Reviewing the supervisory list of postgraduate students suggested by the departments prior to submission to the Postgraduate School Board.
5. Recommending for approval, students admission and
6. Any other duty that maybe assigned by the Postgraduate School Board.
7. The committee shall consider all matters requiring resolution of conflicts or disciplinary action and recommend its discussions to the Postgraduate School Board

### 2.5.6 Other Relevant Committees

*Postgraduate Admissions Committee:*Considers admission recommendations from Departments and approves provisional admissions for postgraduate studies.

## 2.6 POSTGRADUATE ACADEMIC STAFF

Membership of the postgraduate academic staff shall comprise of:

a. All Academic Staff with terminal Masters degrees and PhD.
b. All other staff with at least a Master degree but are not registered postgraduate students.

N.B: No lecturer may however teach or supervise at a level higher than his/her qualification.

**2.6.1 Responsibilities of Postgraduate Academic Staff**

a. Teaching in the Postgraduate programmes of the relevant Departments
b. Supervision of Postgraduate Projects, Research Thesis and or Dissertations.
c. Serving in examination panels of postgraduate students
d. Participation at postgraduate seminars.
e. Curriculum design and development.

**2.6.2 Appointment of Postgraduate Lecturers and Supervisors**

1. Determination of the eligibility or otherwise of a postgraduate lecturer/supervisor is the primary responsibility of the HOD in consultation with the Departmental Postgraduate Studies Committee.
2. Persons of the rank of Lecturer I and above or any other rank approved by the Senate on the recommendation of the School of Postgraduate Studies Board who have terminal relevant academic qualifications and specializations are eligible to be appointed as postgraduate lecturers.
3. A staff member of this university who is himself/herself a postgraduate student cannot serve as Supervisor, Internal Examiner, or a member of the Committee or the School's Boards except where he possesses the terminal PhD degree.
4. No staff shall be deemed competent to supervise a student for a degree he/she is yet to acquire.
5. Assignment of Doctoral students' Major supervisor shall be based on:
   i) Possession of relevant Doctoral degree and or demonstration of research interest (minimum of 3relevant publications in preceding 3 years) with at least two year relevant postgraduate level teaching, supervision as well as serving on related MSc./MA supervisory committees.
   ii) Attainment of the rank of Senior Lecturer/Senior Research Fellow with terminal degree (Ph. D).
6. The School of Postgraduate Studies may review the appointment of the lecturers or membership to any committee whenever there are evidences of incompetence or non-performance in terms of teaching, supervision or Service in the committee(s).

# CHAPTER 3

# POSTGRADUATE STUDIES

## 3.1 POSTGRADUATE STUDIES POLICY

The Ahmadu Bello University, Zaria Postgraduate Studies (PGS) policy spells out the guidelines for staff and student engagement in postgraduate activities in the University. The PG policy envisages that each student would accomplish his/her studies within the stipulated 12-18 months for PGD; 2 years for Masters; 3 or 5 years for full or part time Doctor of Philosophy (PhD) programs and 4 or 6 years for full or part time M.Phil./PhD programs respectively. Specifically, the terms of the policy have been presented to define roles and duties of PG students, staff, Department and the Postgraduate School in the conduct of postgraduate studies in the University.

It is also noteworthy that the policy took into cognizance and is in conformity with the existing PG studies guidelines in the University as well as the benchmark requirements of the National Universities Commission (NUC).

### 3.1.1. Students

1. A Postgraduate student should offer a minimum of 50% of his/her courses in the relevant department and spectrum of their study.
2. Each PG student shall produce and defend a proposal within 6 months for masters and 1 year for PhD programs.
3. A postgraduate student shall arrange for a meeting of his/her postgraduate supervision committee (and serve as the Secretary of such a Committee):
    a. Prior to his proposal seminar
    b. Once per semester
    c. On completion of his/her work,
    d. Before the final seminar/internal defense,
    e. Before forwarding his/her project/thesis/dissertation to the HOD through the Chairman of the Supervisory Committee.
4. A postgraduate student is expected to conduct both theoretical and practical components of his/her study with minimal assistance from technical staff or supervisors.
5. A postgraduate student should attend 75% of all lectures and seminars he/she registered for and make presentations as indicated. Failure to abide by this shall disqualify the student from being examined or given a failing grade in the case of seminars.
6. All postgraduate students are to renew their registration with the School of Postgraduate Studies at the commencement of each session. Failure to register for 2 consecutive semesters automatically invalidates the student's admission.
7. A postgraduate student shall be assessed in all or part by a written exam, term paper, orals, seminar, assignments and group project/presentation for courses he/she registered for at the end of each semester.
8. All postgraduate students are to register for the seminar (1 CU) and research (2 or 3 CU/semester for masters' and doctorate); make a seminar presentation every semester for the duration of his/her study.
9. A student shall withdraw from the programme if in 2 consecutive semesters his/her CGPA falls below 2.5.
10. A postgraduate student may transfer his/her studies to or from the Faculty (from a recognized University) along with all relevant grades if approved by the Department/Faculty and Senate.
11. All postgraduate students who are not certified Computer literate are to undergo a mandatory "Basic Computer Operations" Course (3 CU) training.
12. All postgraduate students are to communicate their preferences in supervision/supervisors to the HOD within the first semester of their study.
13. Each student is to maintain a Postgraduate log/work book into which all relevant activities are recorded. This is to be periodically inspected and endorsed at the end of each semester by the supervisory committee and shall be presented at the external examination.
14. Prior to the external oral defense, all postgraduate students must have completed the minimum credits of course work, presented all seminars required and have a valid registration with the School.
15. Each Postgraduate student is to attend all external defences/viva for examinations in his/her Department.
16. The student should after correcting the thesis/dissertation forward the stipulated number of bound copies of the thesis/dissertation to the SPGS through the Head of Department and Dean.
17. An aggrieved PG student should lodge a formal complaint to the Faculty PG Appeals and Disciplinary Committee, if dissatisfied with the outcome; he/she should forward such complaints to the SPGS Appeals

and Disciplinary Committee. Direct communications to the Vice Chancellor's office or National Universities Commission (without exploring these options) shall no longer be entertained.

18. A Staff in training waiver of fees is deemed to have lapsed at the expiration of his/her initial study duration; he/she shall thereafter either apply to the Vice Chancellor for an extension or commence paying the prescribed fees as applicable to the programme of study.
19. Extension of study period is discretionary and must be justified.

**3.1.2 Staff**

1. Qualified staff members are expected to participate in postgraduate programs as supervisors and or course teachers/instructors/lecturers or coordinators.
2. All teachers/lecturers/ instructors of postgraduate programs and courses should have obtained the degree for which they are teaching or supervising, preferably of the rank of Senior Lecturer or above (for PhD studies) and should not be registered post graduate students.
3. The Chairman of the Supervisory Committee shall be primarily responsible for the leadership and direction of supervision although the ultimate graduation of postgraduate students is a collective responsibility of the entire supervisory team.
4. All postgraduate courses should be taught by a minimum of 2 staff where possible.
5. A supervisor shall not supervise more than 10 postgraduate students as a major supervisor but may participate as a member of other committees.
6. Every supervisory committee shall meet at least once in a semester to review the progress of their student prior to the Departmental PG Committee meeting.
7. Departmental PG coordinators are to attend all postgraduate presentations and external defense in respect of their Departmental PG student(s).
8. Where required, the supervisors shall submit a progress report on a student to the Postgraduate School, sponsors or employers through the respective Department and Dean's office.
9. For good cause, a supervisor may indicate his intention to discontinue the supervision of a postgraduate student through the Head of Department to the SPGS.
10. All aggrieved postgraduate lecturers/supervisors are to channel their complaints to the Faculty Post Graduate Studies Board, if dissatisfied, such complaints should be forwarded to the Dean SPGS (Direct communications to the Vice Chancellor's office or National Universities Commission (without exploring these options) shall no longer be entertained.
11. Supervisors proven to be responsible for PG study extensions shall be responsible for payment of the affected student's fees.

**3.1.3 Departments/Faculties/SPGS/University**

1. Development of classroom, laboratory and office facilities suitable for postgraduate studies and instruction should be pursued by all Departments.
2. Each Department shall nominate a qualified staff (other than the HOD) to coordinate its postgraduate program(s).
3. Departmental PG Committees should meet at least once every semester to review progress of their students, endorse nominations for examiners (internal and external) by the HOD and allocate supervisors to the department's postgraduate students.
4. The HOD in consultation with the Departmental PG Committee shall ensure that only competent supervisors are appointed into supervisory committees.
5. In all situations, the outcome of an external examination shall be communicated to the School of Postgraduate Studies within 3 months of the examination.
6. A provisional supervisory committee of 1for PGD; 2 for Masters and 3 for PhD students shall be proposed for each student as a pre-condition to the admission of the student.
7. The responsibility of the Supervisory Committee shall be in parts to:
    a. Assist in planning the research project. It is desirable that the project be in the major supervisor's area of interest and specialty.
    b. Assist the candidate to prepare application for research grant from the University Board of Research (if a staff) or from any other source
    c. Hold regular meetings with the candidate.
    d. Keep a record of the candidate's progress and submit yearly reports to the School through the Head of Department of the candidate.
    e. Guide the candidate in writing the thesis in conformity with the approved format.

8. Whereas a Lecturer 1 may partake in the supervision of both M.Sc. and PhD students (if a PhD holder) he/she cannot serve as the major supervisor for a PhD student until he attains the rank of a Senior Lecturer.
9. An Academic Adviser's name shall be forwarded along with admission recommendations in respect of all applicants, composition and confirmation (or otherwise) of a Supervisory Committee shall be made along with confirmation of the applicant's admission.
10. One year after the award of a postgraduate degree, a Department may engage the services of the affected staff in PG supervision but such staff can be immediately co-opted into teaching relevant postgraduate courses.
11. At the beginning of each semester, all Departments should produce a postgraduate lecture time table, a copy of which should be forwarded to the postgraduate school.
12. A one-semester postgraduate course should be delivered and examined within the semester in which it is being offered.
13. Ensure the incorporation of at least one suitable expert from another department or relevant establishment within or outside Nigeria in all postgraduate supervisory committees.
14. All admissions shall remain provisional until after submission of the transcript and Senate confirmation (where the applicant did not obtain the pre-requisite qualification (degree) from the Ahmadu Bello University).
15. Departments are to ensure compliance with the minimum and maximum duration of programs, workload, seminar and research credit unit allocations.
16. The Supervisory Committee may recommend to the Departmental and subsequently, the Faculty Postgraduate Board and Postgraduate School the termination of a student's candidature for unsatisfactory progress.
17. Departments should utilize qualified and suitable staff from other units of the university, centers and institutes in teaching and supervision of postgraduate students.
18. All Masters and PhD theses and dissertations are to be subjected to an open external defense. (PhD defenses are to be domiciled in the School of Postgraduate Studies).
19. The Faculty PG Committee shall meet monthly to review submissions to and from the SPGS as well as evaluate the progression of the Faculty PG programs.
20. A panel of the external and internal examiners (one external to the department) shall jointly examine postgraduate students.
21. The HOD shall ensure that the Department communicates the date of an external examination to the SPGS, supervisors and the University Community 2 weeks in advance.
22. Where a Department or Faculty Postgraduate Studies Board is unable to resolve a supervisory crisis, the School of Postgraduate Studies shall in consultation with the relevant Dean and or HOD:
    a. Effect the immediate reconstitution of the Supervisory Committee.
    b. Invite an external Examiner and cause the external examination to be conducted (as the case maybe).

## 3.2 POSTGRADUATE STUDIES STRUCTURE1

*Table 3: Programme Structure for Postgraduate Diplomas*

| Degree in view | Year 1 | | Year 2 | |
|---|---|---|---|---|
| | **Semester 1** | **Semester 2** | **Semester 3** | **Semester 4** |
| **PGD** | *Registration<br>*Coursework.<br>*Proposal defense (Sem. 1)<br>*Research<br>* Confirmation of admission & supervisors | *Completion of research<br>*Project presentation<br>* Appointment of examiners & conduct of Exam.<br>*Correction & submission of defended project. | *PGD award | |

*Table 4: Programme Structure for Masters Degree.*

| Degree in view | Year 1 | | Year 2 | | Year 3 | |
|---|---|---|---|---|---|---|
| | **Semester 1** | **Semester 2** | **Semester 3** | **Semester 4** | **Semester 5** | **Semester 6** |
| **MSc/MA** | *Registration<br>*Coursework.<br>*Seminar 1<br>* Confirmation of admission & supervisors | *Coursework<br>*Seminar 2<br>*Research | * Registration<br>*Research<br>*Seminar 3<br>*Thesis writing<br>*Review of thesis<br>* Appointment of examiners<br>*Presentation of examinable copies of thesis | *External defense of thesis<br>*Correction & submission of copies of the defended thesis. | *Masters degree Award | NIL |

*Table 5: Programme Structure for M.Phil Studies*

| Degree in view | Year 1 | | Year 2 | |
|---|---|---|---|---|
| | **Semester 1** | **Semester 2** | **Semester 3** | **Semester 4** |
| **M.Phil** | *Registration<br>*Coursework.<br>*Proposal defense (Sem. 1)<br>*Research<br>* Confirmation of admission & supervisors | *Completion of research<br>*Project presentation<br>* Appointment of examiners & conduct of Exam.<br>*Correction & submission of defended project. | *Defence of Thesis<br>*M.Phil award or Upgrade to PhD. | |

*Table 6: Programme Structure for Full-time PhD Studies.*

| Degree in view | Year 1 | | Year 2 | | Year 3 | | Year 4 | |
|---|---|---|---|---|---|---|---|---|
| | **Semester 1** | **Semester 2** | **Semester 3** | **Semester 4** | **Semester 5** | **Semester 6** | **Semester 7** | **Sem. 8** |
| **PhD (full time)** | * Registration<br>*Coursework<br>*Seminar 1<br>*Research<br>* Confirmation of admission & supervisors | *Coursework<br>*(Seminar 2<br>*Research | * Registration<br>*Research<br>*Seminar 3 | *Research<br>*Seminar 4<br>*Dissertation writing | *Research<br>*Dissertation writing<br>*Review of Dissertation by supervisors<br>*Seminar 5<br>* Appointment of examiners | *Presentation of examinable copies of Dissertation<br>*External defense of Dissertation | *PhD award | NIL |

*Table 7: Programme Structure for Part-time PhD Studies.*

| Degree in view | Year 3 | | Year 4 | | Year 5 | | Year 6 | |
|---|---|---|---|---|---|---|---|---|
| | **Semester 1** | **Semester 2** | **Semester 1** | **Semester 2** | **Semester 1** | **Semester 2** | **Semester 1** | **Sem. 2** |
| **PhD** (part time)** | * Registration<br>*Seminar 5 | *Research<br>*Seminar 6 | * Registration<br>*Research Dissertation & writing.<br>*Seminar 7 | *Dissertation & seminar writing<br>*Review of Dissertation by supervisors<br>Seminar 8 | * Registration<br>*Seminar 9<br>*Dissertation writing<br>* Appointment of examiners<br>*Presentation of 5 examinable copies of Dissertation | *External defense of Dissertation<br>*Correction & submission of 2 copies of the Dissertation | *PhD award | NIL |

**** Year 1 & 2 are as for PhD full time program**

*Table 6: Programme Structure for Full-time M.Phil./PhD Studies.*

| Degree in view | Year 1 | | Year 2 | | Year 3 | | Year 4 | |
|---|---|---|---|---|---|---|---|---|
| | **Semester 1** | **Semester 2** | **Semester 3** | **Semester 4** | **Semester 5** | **Semester 6** | **Semester 7** | **Sem. 8** |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **M.Phil/PhD (Full time)** | *Registration<br>*Coursework.<br>*Proposal defense<br>*Research<br>* Confirmation of Adm. & Supervisors | *Coursework<br>*Completion of research<br>* Appointment of examiners& conduct of Exam.<br>*Correction & submission of defended Thesis. | *Defence of M.Phil Thesis<br>*M.Phil award/ Upgrade to PhD. | *PhD Proposal defense<br>*Research<br>*Coursework | *Research<br>*Coursework<br>*Seminar | *Research<br>*Dissertation writing<br>*Review of Dissertation by supervisors<br>*Seminar<br>* Appointment of examiners | *Presentation of examinable copies of Dissertation<br>*External defense of Dissertation | *PhD award |

*Table 7: Programme Structure for Part-time M.Phil/PhD Studies.*

| **Degree in view** | **Year 2** | **Year 3** | | **Year 4** | | **Year 5** | | **Year 6** | |
|---|---|---|---|---|---|---|---|---|---|
| | **Semester 4** | **Semester 5** | **Semester 6** | **Semester 7** | **Semester 8** | **Semester 9** | **Semester10** | **Semester 11** | **Semester 12** |
| **PhD** (Part time)** | *PhD Proposal defense<br>*Research<br>*Coursework | *Research<br>*Coursework<br>*Seminar | *Research<br>*Coursework<br>*Seminar | *Research<br>*Coursework<br>*Seminar | *Research<br>*Seminar<br>*Dissertation writing | *Research<br>*Seminar<br>*Dissertation writing | *Research<br>*Review of Dissertation bySupvs.<br>*Seminar<br>* Appointment of examiners | *Presentation of examinable cps of Dissertation<br>*External defense of Dissertation | *PhD award |

**** Semesters 1, 2 and 3 for the Part Time M.Phil/PhD Programme**

## 3.3 LEVELS OF POSTGRADUATE PROGRAMMES

i. *Postgraduate Diploma*
Postgraduate Diploma Programmes: Postgraduate diploma programmes usually include coursework with examinations and long essays or research project reports. Such programmes may be full-time or part-time.

ii. *Master's Degree Programmes:* All Master's degree programmes consist of a coursework with written examinations. These programmes may be part-time or full-time but involve a research Thesis(academic) or project (professional) and an oral defence of such a research work.

iii.*M.Phil.:* This programme serves primarily to bridge percieved deficiencies in PhD applicants as well as those unable to complete their PhD studies within the stipulated time. The specifications depend on the student's entry level.

iv. *Doctor of Philosophy Degree (PhD) programmes*: All PhD Degree programmes shall have Coursework with written examinations, a research dissertation that involves oral defense and requires the participation of an external examiner. Courses at the Doctoral level (maximum 10 credit units per semester) shall normally be (but not exclusive) to areas of Advanced research methodology, datamanagement and analysis, Research Concepts, informatics as well as Advanced Computing. Credit units earned on coursework during a Master's degree are usually credited towards the PhD degree.

## 3.4 PG ADMISSIONS, STUDY AND GRADUATION

The admission of students into the Postgraduate School is a joint responsibility of the Faculty Postgraduate Studies Committee and the Postgraduate Admissions Committee. The School shall advertise the higher degree programmes; forward the application data to the respective departments which shall consider and make recommendations to the PG Admission Committee.

The operational websites for online purchase/submission and registration of postgraduate students are http//:portal.abu.edu.ng/pgform and http//:portal.abu.edu.ng respectively

Details of all advertised courses, admission requirements as well as all information related to the admission exercise are hosted on these sites.

### 3.4.1 Methods of Application

An applicant must submit the following admission credentials together with the application form to be eligible for consideration.

i). An official transcript from the previous University attended listing all courses taken, grades and degree awarded, and dates of graduation.
ii). Recommendation from three persons/referees acquainted with the applicant's academic ability or and professional competence, one of who must be the previous academic Head of Department.
iii). A certified statement from the sponsor or self-evidence indicating that financial resources are available to defray the cost of postgraduate education for foreign applicants.

### 3.4.2 Nature of Admission

*Regular Admission* is offered to applicants who have met all SPGS and Departmental/Faculty Postgraduate Studies Committee admission criteria.

*Conditional Admission* is offered to applicants whose previous academic records indicate they may have difficulty performing satisfactorily in the chosen higher degree programmes but opportunity is provided to compensate for the identified deficiencies until he/she can demonstrate ability to perform satisfactorily in the degree programmes. The applicants will be given remedial courses to take and pass before he/she is allowed to pursue required higher degree courses.

i. Failure to complete the conditional provisional admission requirements within the given time limit specified by the Faculty Postgraduate Studies Committee may result in the student being denied further registration by the Postgraduate School.
ii. All applicants offered provisional admission are required to pay an appropriate non-refundable acceptance fee prior to registration. All admissions are valid only for the semester and year indicated.
iii. All application material become the property of the Ahmadu Bello University and will not be returned to the applicant or forwarded to another University.

iv. Students may transfer from one programme or academic Department to another with the approval of the Senate on the recommendation of the School of Postgraduate Studies Board and Faculty Postgraduate Studies Board after completing at least one semester. The student, however, must meet requirements of admission into that programme or Department.

**3.4.3 Admission Procedure**

1. A candidate wishing to enroll for a Postgraduate Diploma, Masters or Doctoral degree of Ahmadu Bello University shall apply online for provisional admission, through the SPGS.
2. Candidates seeking admission for Postgraduate studies must, in addition, fulfill the general University basic requirements in English Language and Mathematics (where indicated).
3. The SPGS shall forward the application data of each candidate to the Departments through the Dean of the relevant Faculty for consideration and ***recommendation***.
4. The Departments through the Faculty/Academic Boards shall forward a recommended list of candidates along with a provisional Adviser to the PG Admission Committee.
5. The Admissions Committee shall review submissions from Departments and approve a tentative admissions list (Neither the SPGS nor the University shall be obliged to give reasons for rejecting the candidature of any applicant for Postgraduate studies).
6. PhD applicants are expected to attach a Research proposal of 2- 3 pages to their application before submitting the applications.
7. Admissions list shall be released and publicized by the SPGS viz.: direct communication with applicants (SMS, e-mail), pasting on notice boards and on the University Website.
8. The admission list shall be forwarded for ratification by the Senate before the commencement of the corresponding second semester.

**3.4.4 General Admission Requirements**

1. An applicant for Postgraduate studies must have met the normal undergraduate requirements of at least **five** relevant O' level credits or a combination of relevant O' level credits and A 'level qualifications (in a maximum of 2 sittings) such as IJMB, HND, HSC, NCE, etc. In all cases these must include a credit in O' level ***English Language*** and ***Mathematics*** (where required).
2. A holder of ***HND*** (minimum of an Upper Credit)or equivalent is ordinarily not qualified for Masters Admission except where he/she has acquired an additional qualification such as a PGD in the same or related field whereby he/she may be admitted.
3. Applicants with 3rd class Degrees can, in some cases, be admitted, provided they possess additional relevant qualifications such as a PGD and/or post-graduation work experience (at least 5 years) acceptable to the University.
4. Holders of Pass Degree or HND (lower than an Upper Credit) are not eligible for postgraduate studies in ABU.
5. PhD applicants must hold a Master degree with a research thesis component (not project). Candidates with a CGPA score of less than 3.5 are not eligible for PhD admission.
6. Where a PhD applicant is judged to be deficient, has a professional Master's degree or Masters without a Thesis component, he/she maybe considered for an M.Phil.
7. Applicants who earn a minimum CGPA of a 3.5 at the end of the M.Phil. programme shall be upgraded to proceed with the relevant PhD study.
8. Applicants for PhD programmes are expected to liaise with the relevant departments/programmes prior to selection of their proposed research areas to ascertain the department's capability to host their proposed study.
9. Where a Master or PhD student is unable to complete his/her study within the stipulated time, such a student shall be awarded the relevant PGD or M.Phil. respectively (where applicable).
10. **Transcript**: Candidates should request their former Universities or Institutions, to send their academic transcripts to the Secretary, School of Postgraduate Studies, ABU. Zaria prior to confirmation of their admission by the Senate.

In addition to the general admission requirements, several of the postgraduate programmes have additional requirements and in some cases, candidates are required to pass an entrance examination/screening.

**3.4.5 General admission guidelines into Postgraduate Study Levels:**

*A. Postgraduate Diploma Programmes*

i. For Postgraduate Diploma, the candidate must have a degree from the Ahmadu Bello University or any other recognized University with a minimum of third class in a relevant field or its CGPA equivalent.

ii. Higher National Diploma (HND) at Upper Credit level in related field of study from an NBTE recognized Polytechnic or any other institution considered as equivalent.

*B. Master's Degree Programmes*

i. Possession of a first degree of Ahmadu Bello University or any other recognized University in the relevant field. A professional qualification from a recognized institution may be considered for admission to the professional

Master's degree.
ii. Possession of a minimum of a 2.4 Cumulative Grade Point Average (CGPA) (on the 5.0 scale) for non-classified degrees or a minimum of Second Class Lower for those not on Course Credit system.
iii. A candidate with a third class degree who has passed the Ahmadu Bello University or anyrecognised Postgraduate Diploma in the subject area at credit level or better, as well as those who have 5 years post-graduation relevant working experience may be considered.
iv. A candidate with a HND (minimum of an Upper Credit) and a recognised Postgraduate Diploma in the subject or relevant area at credit level, may be considered.

*C. Doctorate Degree Programmes*
i. Possession of a minimum of a 3.5 Cumulative Grade-Point Average (on the 5.0 scale) or average letter grade B at the Masters level.
ii. Possession of a Master's degree with a research thesis (not project).
iii. Possession of an M. Phil in the relevant specialty.

### 3.4.6 Distribution of Postgraduate Students

**Table 3.1:***Total Postgraduate Students Population for 2012/2013*

| S/No. | **Faculties** | **No. of Registered Student** |
|---|---|---|
| 1 | Administration | 1816 |
| 2 | Agriculture | 383 |
| 3 | Arts | 603 |
| 4 | Education | 1600 |
| 5 | Engineering | 580 |
| 6 | Environmental Design | 702 |
| 7 | Law | 319 |
| 8 | Medicine | 211 |
| 9 | Pharmaceutical Sciences | 191 |
| 10 | Science | 1473 |
| 11 | Social Sciences | 649 |
| 12 | Veterinary Medicine | 199 |
| | **Total** | **8726** |

**Table 3.2:***Postgraduate Studies Application versus Admission for 2012/2013*

| S/No. | **Faculties** | **No of Application** | **No. Admitted** |
|---|---|---|---|
| 1 | Administration | 3640 | 1924 |
| 2 | Agriculture | 487 | 279 |
| 3 | Arts | 704 | 399 |
| 4 | Education | 2078 | 1064 |
| 5 | Engineering | 1284 | 506 |
| 6 | Environmental Design | 1093 | 559 |
| 7 | Law | 767 | 320 |
| 8 | Medicine | 368 | 147 |
| 9 | Pharmaceutical Sciences | 291 | 123 |
| 10 | Science | 2737 | 1323 |
| 11 | Social Science | 1529 | 613 |
| 12 | Veterinary Medicine | 315 | 196 |
| | **Total** | **15293** | **7453** |

### 3.4.7 Registration
No student can register for two degree programmes or with any Postgraduate Diploma Programmes concurrently in the University. Any student caught contravening this regulation shall be withdrawn from both programmes immediately.

Registration for a programme (unrelated to the Staff's primary discipline), PGDE or any Distance Learning PG programme shall however not prevent the staff from participation in PG activities.

A student is deemed to have registered only after paying the prescribed fees as well as completing all departmental, faculty and SPGS registration formalities.

*Postgraduate Diploma Programmes*
i. After the first registration with the school, the student shall pursue the relevant Postgraduate Diploma Programme studies for not less than two (2) semesters (1 academic session) and not more than four (4) semesters (2 academic sessions) for award of the relevant Diploma.

*Master's Degree Programmes*
i. After first registration with the School, the student for the Master's degree shall pursue the studies and thesis research for not less than three semesters and not more than four semesters (2 academic sessions) for award of thedegree.
ii. PGD and Masters students on the Distance Learning option shall receive their course materials as modules and assignments weekly. The Academic Support Group shall coordinate their study.

*M.Phil.*
This programme will serve primarily to bridge percieved deficiencies in PhD applicants as well as those unable to complete their PhD studies within the stipulated time. The following categories of potential PhD students:

i. Those intending to pursue PhDs in related but different specialisations from their Masters programme.
ii. Those with Professional Masters degrees in the various fields.
iii. Those with percieved deficiences in the conduct of research at the Masters levels.
iv. Those students with weak grades (< B) for research at the Masters level even if they made the mandatory CGPA of 3.0 required to proceed for a PhD.
v. Those unable to complete their PhD programmes within the stipulated time.
vi. M.Phil programmes are to be customised tyo the need of students and are to be run on a full time basis.

*Doctorate Degree Programmes*
i After first registration with the School of Postgraduate Studies, a full-time student for the degree of Doctor of Philosophy or Doctor of Medicine shall pursue his/her studies and Dissertation for not less than 2 academic sessions and not more than 3 academic sessions for award of the relevant degree.
ii. For students registered as part-time, he/she shall pursue the studies and Dissertation for not less than 3 academic sessions and not more than 5 academic sessions for the award of the relevant degree.

*For both PGD, Master's and Doctorate students, concessions for a first and or second extensions maybe discretionally granted 6, 18 and 24 months respectively.

**3.4.8 Coursework**
i. Coursework, which shall be taught, examined and graded each semester, shall be mandatory at all levels for PGD, Master's and Doctorate studies.
ii. A 2 or 3 tier Course Structure shall be operational for all postgraduate programmes (See Table2) i.e.:

- 1st Tier: Core Departmental/Faculty Courses (25-30% of workload)
- 2nd Tier: Core Specialization/option Courses (45-55% of workload)
- 3rd Tier: Electives (25-30% of workload)

**Table 3.3:** Examples of 2 formats of a 3-tierd Course Structure

**Department of Veterinary Physiology and Pharmacology**
**Semester1**

| Course code | Course title | Credit Units |
|---|---|---|
| **Core/compulsory departmental Courses** | | |
| VMPP 805 | Cell Physiology | 2 |
| VMPP 881, 883, 885 | MSc. Seminar | 1cu/semester |
| VMPP 981, 983, 985 | PhD Seminar | " |
| VMPP 891, 893, 895 | MSc Research/thesis | 2cu/semester |
| VMPP 991, 993, 995 | PhD Research/dissertation | 3cu/semester |
| **Core Specialisation Course** | | |
| **Physiology Option** | | |
| VMPP 809 | Gastroenterology | 3 |
| VMPP 813 | General Physiology of Excitable Tissues | 3 |
| VMPP 815 | Endocrine Physiology | 4 |

| | | |
|---|---|---|
| VMPP 817 | Cardiovascular Physiology | 3 |
| VMPP819 | Radiophysiology | 3 |
| | | |
| **Pharmacology Option** | | |
| VMPP 801 | Clinical Pharmacology | 3 |
| VMPP 807 | Toxicology of Poisonous Plants | 2 |
| VMPP 813 | General Physiology of Excitable Tissues | 3 |
| | | |
| **Toxicology Option** | | |
| VMPP 803 | Environmental Toxicology | 2 |
| VMPP 807 | Toxicology of Poisonous Plants | 3 |
| VMPP 813 | General Physiology of Excitable Tissues | 3 |
| VMPP819 | Radiophysiology | 3 |
| | | |
| **Elective Courses** (At the discretion of the supervisory committee) | | |
| | | |

**PhD Home Economics**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| | **Faculty/Departmental Core Courses** | |
| EDUC 901 | Advanced Educational Statistics | 3 |
| EDUC 902 | Computer and Data Processing | 3 |
| EDUC 903 | Educational Thought and Practice | 3 |
| VTED 981-989 | Seminar | 1/Semester |
| VTED 991-999 | Research/ Dissertation | 6/Semester |
| **Family and Child Development Option** | | |
| VTED 901 | Developmental Appraisal of Children | 3 |
| VTED 902 | Guidance of Child | 3 |
| VTED 903 | Pre-natal and Infant Development | 3 |
| VTED 904 | Child Development Practicum | 3 |
| VTED 906 | Family Theory **(Elective)** | 3 |
| VTED 907 | Internship in Family & Child Development | 3 |
| **Clothing & Textiles Option** | | |
| VTED 908 | Family Clothing and Textiles Consumption | 3 |
| VTED 909 | Current Trends in Clothing and Textiles | 3 |
| VTED 910 | Methods and Materials in Clothing and Textiles | 3 |
| VTED 911 | Textiles Testing Analysis Education | 3 |
| VTED 912 | Children's Clothing Selection and Consumption | 3 |
| VTED 913 | Clothing and Textile related Industrial Tour | 3 |
| VTED 914 | Advanced Clothing and Tailoring | 3 |
| **Home Economics Education Option** | | |
| VTED 916 | Home Economics Curriculum Development | 3 |
| VTED 917 | Curriculum Evaluation in Home Economics | 3 |
| VTED 918 | Preparation and Organisation of Teaching Aids and Material | 3 |
| VTED 920 | Educational Leadership and Supervision in Home Economics | 3 |
| VTED 921 | Programme Analysis and Design | 3 |
| VTED 922 | Current Issues in Home Economics | 3 |
| VTED 923 | Administration in Home Economics (Elective) | 3 |
| **Home Management Option** | | |
| VTED 924 | Ergonomic in the Home (Elective) | 3 |
| VTED 925 | Advanced Study of Home Management | 3 |
| VTED 926 | Independent Living | 3 |

| | | |
|---|---|---|
| VTED 927 | Housing Economics | 3 |
| VTED 928 | Currents Programme and Trend in Human Resource Development | 3 |
| VTED 929 | Home Economics in the Community | 3 |
| VTED 930 | Family in the Ecological System | 3 |
| **Foods and Nutrition Option** | | |
| VTED 931 | Applied Nutrition Problem | 3 |
| VTED 932 | Advanced Nutrition | 3 |
| VTED 933 | Chemical Methods for Research | 3 |
| VTED 934 | Sensory properties of food | 3 |
| VTED 935 | Foods proteins, Lipids, Carbohydrates | 3 |
| VTED 936 | Modern Views on Nutrition (elective) | 3 |
| VTED 937 | Research Methods in food science | 3 |
| **Elective Courses** (At the discretion of the supervisory committee) | | |
| | | |

iii. Coursework at the Doctoral level (max. 10 credit units/semester excluding Research and Seminars) shall normally be (but not exclusive) in areas of research methodology, data management and analysis, informatics, Advanced web applications as well as Advanced Computing.
iv Each candidate shall normally be expected to pass all prescribed written examinations and up to date with his/her registration before presenting his/her thesis/dissertation for examination.
v. Each Faculty shall conduct course work examinations in accordance with the Senateapproved postgraduate studies calendar.
vi. Pass mark for written examinations is 50%.

**3.4.9 Workload for Postgraduate programmes**

A unit of workload consists of one hour lecture per week for 15 weeks (one semester); a 3 hour laboratory/practical or 6 hour studio class per week for 15 weeks.

a) No course (except Seminars) shall carry less than 2 credit units
b) A Postgraduate Diploma project report shall carry 6+ credit units.
c) A Masters research/thesis shall carry 12+ credit units.
d) A PhD research/dissertation shall carry 24+ credit units.

Furthermore, the overall workload (excluding Seminar and Research) shall be:

i) Postgraduate diploma shall carry 25 credit units.
ii) Master's degree shall carry a minimum work load of 30-45 credit units.
iii) PhD – A minimum workload of 45 credit units (inclusive of credit units earned at the Masters/M.Phil. levels.

**3.4.10 Examinations**

*Regulations Governing Examinations*

These are presented in the recently approved Examination Guidelines of the Ahmadu Bello University, Zaria.

*Course work*

a. For all postgraduate coursework, the minimum pass score is 50%.
b. Any student who fails in any course, shall repeat such a course;
c. Any student whose CGPA falls below 2.50 or 3.00 (Humanities and Sciences) in 2 consecutive semesters shall withdraw from the programme.
d. Any candidate whose CGPA is below 3.5 at the end of a Master's programme shall not be admissible for a PhD programme.
e. Scoring and grading of courses shall be as follows:

**Table 3.4:***Course Grading System for Postgraduate Courses*

| Marks | Letter Grades | Grade Points |
|---|---|---|
| 70 and above | A | 5 |
| 60 – 69 | B | 4 |
| 50 – 59 | C | 3 |
| 45 – 49 | D | 2 |
| 40 - 44 | E | 1 |
| 0 - 49 | F | 0 |

**3.4.11 Projects/Theses/Dissertation Benchmark**

In additional to other departmental/programme requirements all postgraduate projects/thesis/dissertations shall meet the following minimum standard:

i. **PGD Projects:** At least 3 months duration; have at least one clear objective; may include issuance of questionnaires, field work and or minimal laboratory/studio/field work.

ii. **Masters Project:** At least 3 months duration; capable of generating one publication; have at least 2 clear objectives; may include issuance of questionnaires, field work and or moderate laboratory/studio work; make 1 tangible contribution to knowledge.

iii. **Master's Thesis:** At least 6 months duration; capable of generating two publications; have at least 3 clear objectives; should include any 2 of - issuance of questionnaires, field work and or moderate laboratory/studio work; make 2 tangible contribution to knowledge; should involve microscopic/molecular studies (where relevant).

**iv.** **Doctorate Dissertation:** At least 12 months duration; should have at least 5 clear objectives; be capable of generating three publications; should include any 2 or more of - issuance of questionnaires, field work and or extensive laboratory/studio work; make 3 tangible contribution to knowledge; should involve a modern analytical or laboratory technique- sub cellular or molecular studies (where applicable).

**3.4.12 Graduation Requirements**

*Postgraduate Diploma*

i. Successful completion of all required courses and a project on an approved topic.
ii. Candidate must have earned a minimum of 24-30 credit units of coursework.
iii. Ahmadu Bello University Postgraduate Diploma is awarded based on the student's final Cumulative Grade Points Average (CGPA) thus:

4.50 - 5.00 Distinction
4.00 - 4.49 Upper Credit
3.50 – 3.99 Lower Credit
3.00 - 3.49 Merit
2.50 – 2.99 Pass
< 2.50 Fail

*Master's Degree*

i. Successful completion of all required courses, internal assessment and external defense of thesis.
ii. Candidate must have earned a minimum permissible number of credits of coursework.
iii. Submission of the Graduation Application Form (GAF 10.4) to the School of Postgraduate Studies not later than two weeks after date of certification.
iv. Submission of 8 signed and bound copies of thesis to the School of Postgraduate Studies through the Head of Department for endorsement and distribution to the University MainLibrary, School of Postgraduate Studies, members of the Supervisory Committee, the Department and the student.

*M.Phil.*

An M.Phil. shall be awarded to the following:

i. Candidates unable to complete their studies within the permissible time but have achieved at least 50% completion of courses and research.
ii. Candidates whose overall performance at the final exam amounted to a CGPA of less than 3.5.

*Doctorate Degree*

i. Successful completion of all required courses, internal assessment and external defense of dissertation.
ii. Candidate must have earned the required number of credit units.
iii. Submission of the Graduation Application Form (GAF 10.4) to the School of Postgraduate Studies not later than two weeks after date of certification.
iv. Submission of 8 signed and bound copies of dissertation to the School of Postgraduate Studies through the Head of Department for distribution to the University Main Library, School of Postgraduate Studies, members of the Supervisory Committee, the Department and the student.

**3.5 POSTGRADUATE DISTANCE LEARNING PROGRAMMES**

The Ahmadu Bello University shall commence the delivery of selected PG programmes by Distance Learning. Details of the Distance Learning Centre and activities are presented in the Distance Leaning Centre Student's Handbook and Policy.

### 3.6 GUIDELINES ON PROJECTS, THESIS AND DISSERTATION WRITING (refer to revised Guidelines on project reports, theses and dissertations writing)

#### 3.6.1 Submission of Project Reports/Thesis/Dissertation for Exam.

The loose-bound copy of the candidate's project report/thesis/dissertation should be sent to the Examiners when both the appropriate Head of Department and the Dean of the Faculty have certified to the Dean of School of Postgraduate Studies in writing that the project report/thesis/dissertation conforms to all the conditions stipulated in these Guidelines.

#### 3.6.2 Binding

(a) Project reports/thesis/dissertations should be permanently bound only after the Oral examination and making all necessary corrections and alternations.

(a) The spine of each project report/thesis/dissertations should be lettered boldly in gold to indicate the degree, month and year and name of the candidate.

(b) PhD dissertations should be in Maroon colour while PGD, Masters Project reports/thesis shall be Black in colour.

(c) The title and name of the candidate should appear boldly on the front page.

#### 3.6.3 Number of Copies

Eight copies of the approved project report/thesis/dissertation along with the electronic/soft copy shall be submitted through the Head of Department to the SPGS for endorsement and distribution as follows:

(a) University Library (i.e. K.I.L.)
(b) Departmental Library
(c) Postgraduate School
(d) Chairman and other members of the Supervisory Committee
(e) Candidate

### 3.7 DIVISION OF FUNCTION RELATING TO POSTGRADUATE MATTERS

*A. Matters for the Supervisory Committee*

1. Guide students in selection and developing research Topics/titles
2. Regular consultation with students and assisting with course selection.
3. Presentation of required reports on student's progress.
4. Perusal and endorsement of Postgraduate studies logbook.
5. In liaison with the Department, ensure timely completion of postgraduate studies.
6. Certify all presentations and thesis/dissertation of candidates prior to presentations.
7. Endorsement of corrected and bound projects/theses/dissertations.
8. Assist and guide students in sourcing for research funds.
9. Presence at Seminars and defense of their PG student.

*B. Matters for the Departments*

1. Providing PG Advisers/Supervisorsand recommendingadmission and supervisory list
2. Recommending provisional and confirmatory admission list to the SPGS.
3. Recommend examiners for postgraduate courses and external/oral examinations (defence).
4. Determination of postgraduate programme and course structures.
5. Coordination of coursework and external examination/defence.
6. Arrange for the conduct of postgraduate seminars (where coordinated by departments)
7. Organization of lecture and examination venues (PGD, Masters and MSc/MA.).
8. Preparation and execution of lectures and examinations.
9. Compilation, consideration and forwarding of examination results to SPGS through the Faculty.
10. First line in resolution of misunderstandings/conflicts related to postgraduate studies in the Department

*C. Matters for Faculties and Those to Terminate At Faculty Level withInformation Passed To School of Postgraduate Studies*

1. Certification that thesis complies with Ahmadu Bello University format
2. Certifying that Part-time Candidates have at least 20 hours per week available for postgraduate work.
3. Consideration of all submissions from the departments to the SPGS Board.
4. Second line of resolution of misunderstandings/conflicts related to postgraduate studies in the Faculty
5. Arrange for the conduct of postgraduate seminars (where coordinated by the Faculty).
6. Review and approval of new or modification of existing courses/programmes.

*D. Matters For and Those to Terminate At SPGS Board/School*

1. Registration of candidates given provisional admission (-Including screening).
2. Approval of Provisional supervisory/Advisory list.
3. Consideration of course examination results.
4. Consideration and approval of Extensions and Suspension of Studies.
5. Approval of new PG courses.
6. Resolution of postgraduate related conflicts not resolved at Faculty level.

*E. Matters for Senate*

1. Approval of Examiners
2. Approval of new PG Programmes to be submitted through Academic Planning Committee.
3. Approval of PG admission, Supervisory Committees and research topics.
4. Approval of change of supervisors and status of postgraduate studies
5. Approval of Postgraduate Studies Calendar.
6. PG Examination irregularities report consideration.
7. Approval of Final Examination Results
7. Consideration and approval of Postgraduate Studies Regulations.
8. Award of postgraduate degrees

Where a decision is taken on a Postgraduate student, a record will be made in the candidate's file in the SPGS.

### 3.8 EXAMINATION GUIDELINES

Where appropriate, relevant clauses in the University Examination regulations shall also apply for all postgraduate coursework examinations.

a. The responsibilities assigned to Examination Officers at the Faculties and Departments shall be undertaken by the Faculty and Departmental Postgraduate Coordinators.
b. Membership of the Academic Monitoring Committee shall be as specified in the relevant approvals and composed by the Academic Planning and Monitoring Directorate.

### 3.9 APPROVED POSTGRADUATE PROGRAMMES

**Table 3.5:** *Approved PG programmes*

| Faculty/Department | Program |
|---|---|
| **Administration**<br>Accounting | M.Phil. Accounting (Full time)<br>M.Sc. Accounting and Finance<br>Masters in Accounting and Finance<br>PGD. Accounting and Finance<br>Ph.D. Accounting and Finance |
| | |
| Business Administration | M.Phil. Business Administration<br>M.Sc. Banking and Finance<br>M.Sc. Business Administration (Full-Time)<br>Master's in Business Administration (Special) (FT)<br>Master's in Business Administration (Special) (PT)<br>Master's in Business Administration (Regualar) (FT)<br>Master's in Business Administration (Regular) (PT)<br>PGD in Management (Part-time)<br>Ph.D. Business Administration |
| | |
| Local Government and Development Studies | M.Phil. Local Government Administration<br>Masters in Policy and Development Studies (MPDS)<br>M.Sc. Policy and Development Studies<br>Master's in Public Administration - Local Government |

| | |
|---|---|
| | PGD Local Government (Full & Part Time)<br>Ph.D. Local Government Administration |
| | |
| Public Administration | M.Phil. Public Administration<br>M.Sc. Public Administration (Full-Time)<br>Master's in Public Administration (Full-Time)<br>PGD Human Capital Development<br>Master's in Public Administration (Part-Time)<br>PGD Public Administration (Part-Time)<br>Ph.D. Public Administration (Full-Time) |
| | |
| **Agriculture** | |
| Agricultural Economics and Rural Sociology | M.Phil. Agric. Economics<br>M.Phil. Agricultural Economics and Rural Sociology<br>M.Sc. Agric. Economics<br>M.Sc. Agric. Extension & Rural Sociology<br>PGD Farm management<br>Ph.D. Agric. Economics<br>Ph.D. Agric. Extension & Rural Sociology |
| | |
| Agronomy | M.Sc. Agronomy<br>PGD-Crop Production and Mgt.<br>Ph.D. Agronomy |
| | |
| Animal Science | M.Sc. Animal. Science (Full-Time)<br>PGD. Animal Production (Part-Time)<br>Ph.D. Animal Science (Full-Time)<br>Ph.D. Animal Science (Part-Time) |
| | |
| Crop Protection | M.Sc. Crop Protection (Full-time)<br>PGD. Crop Protection (Part-Time)<br>Ph.D. Crop Protection (Full-time)<br>Ph.D. Crop Protection (Part-time) |
| | |
| Plant Science | M.Sc. Plant Breeding (Full Time)<br>M.Sc. Plant Physiology (Full Time)<br>PGD. Seed Prod. & Tech. (Part-Time)<br>Ph.D. Plant Breeding (Full-Time)<br>Ph.D. Plant Physiology (Full-Time) |
| | |
| Soil Science | M.Sc. Soil Science (Full-time)<br>Ph.D. Soil Science (Full-time) |
| **Arts** | |

| | |
|---|---|
| African Languages and Cultures | M.A African Cultural Studies<br>M.A African Language (Hausa)<br>M.A African Literature (Hausa)<br>M.Phil. African Cultural Studies<br>M.Phil. African Languages(Hausa)<br>M.Phil. African Literature (Hausa)<br>PGD Translation & Interpretation<br>Ph.D. African Cultural Studies<br>Ph.D. African Language (Hausa)<br>Ph.D. African Literature (Hausa) |
| Arabic | M.A Arabic Language<br>M.A Arabic Literature<br>Ph.D. Arabic Language<br>Ph.D. Arabic Literature |
| Archaeology | M. Phil Cultural Resource Management<br>M.A. Archaeology (Full-Time)<br>M.Phil.Archaeology<br>Ph.D. Archaeology<br>Ph.D. Cultural Resource Management |
| English and Literary Studies | M.A. English Literature (Full-Time)<br>M.A.Literature (Full-Time)<br>M.Phil. English Language<br>M.Phil. English Literature<br>Ph.D. English Lang. (Full-Time)<br>Ph.D. English Literature (Full-Time) |
| French | PGD Translation and Interpretation<br>M.A. French (Full-Time)<br>M.Phil. French<br>Ph.D. French (Full-time) |
| History | M.A. History (Full-time)<br>M.Phil. History<br>Ph.D. History (Full-time) |
| Theatre and Performing Arts | M.A. Development Comm. (Full-Time)<br>M.A. Theatre Performing Arts (Full-Time)<br>M.Phil. Development Communication<br>M.Phil. Theatre And Performing Arts<br>PGD Home Video Production<br>PGD. Development Communication<br>Ph.D. Development Comm. (Full-Time)<br>Ph.D. Theatre and Performing Arts (Full-Time) |

| | |
|---|---|
| Philosophy | M.A Philosophy<br>MPhil Philosophy<br>PhD Philosophy |
| **Education** | |
| Art and Social Science Education | M.Ed. Christian Religious Studies (Full-Time)<br>M.Ed. Islamic Studies (Full-Time)<br>M.Ed. Social Studies (Full-Time)<br>M.Ed. Teaching English as Second Language (Full-Time)<br>M.Ed. Language Arts (Hausa)<br>Ph.D. Language Arts (Hausa)<br>Ph.D. Christian Religious Studies (Full-Time)<br>Ph.D. Islamic Studies (Full-Time)<br>Ph.D. Social Studies (Full Time)<br>Ph.D. Teaching English as Second Language (Full-Time) |
| | |
| Educational Foundation and Curriculum | M.Ed. Admin. & Planning (Full-Time)<br>M.Ed. Curriculum & Instruc. (Full-Time)<br>M.Ed. Instruction Technology<br>PGDE. (Full Time)<br>Ph.D. Administration & Planning (Full-Time)<br>Ph.D. Curriculum & Instruc. (Full-Time)<br>Ph.D. Instruc. Tech. (Full-Time) |
| | |
| Educational Psychology and Counselling | M.Ed. Education Psychology<br>M.Ed. Guid. & Counselling (Full-Time)<br>Ph.D. Educational Psychology (Full-Time)<br>Ph.D. Guid. & Counselling (Full-Time) |
| | |
| Library and Information Science | M.Phil. Information Science<br>M.Phil. Library Information Science<br>M.Sc. Inform. Science (Full-Time)<br>M.Sc. Inform. Science (Part-Time)<br>Master of Archives and Records Mgt. (Full-Time)<br>Masters in Library Science (Full-time)<br>Masters Inform. Management (Part-time)<br>PGD in Inform. Management (Part-Time)<br>Ph.D. Information Science<br>Ph.D. Library Science |
| | |
| Physical and Health Education | M.Ed. Health Education (Full-Time)<br>M.Ed. Physical Education (Full-Time)<br>M.Phil. Exercise and Sports Science<br>M.Phil. Health Education Science<br>M.Phil. Physical Education<br>M.Phil. Sport Management<br>M.Sc. Sports Management (Full-Time)<br>M.Sc. Exercise and Sports Sciences (Full-Time) |

| | |
|---|---|
| | PGD. Sports Management (PGDSM)<br>Ph.D. Exercise & Sports Science (Full-Time)<br>Ph.D. Health Education (Full-Time)<br>Ph.D. Sports Management (Full-Time)<br>Ph.D. Physical Education |
| | |
| Science Education | M.Ed. Maths Education(Full Time)<br>M.Ed. Science Education (Full-Time)<br>Ph.D. Maths Education (Full Time)<br>Ph.D. Science Education (Full-Time) |
| | |
| Vocational and Technical Education | M.Ed. Business Education (Full-Time)<br>M.Ed. Home Economics (Full-Time)<br>M.Phil. Business Education<br>M.Phil. Home Economics<br>M.Sc.(Ed) Agricultural Education (Full-Time)<br>Ph.D. Business Education (Full-Time)<br>Ph.D. Home Economics (Full-Time) |
| | |
| **Engineering** | |
| Agricultural Engineering | M. Phil Agricultural Engineering<br>M.Sc. Agric. Engineering<br>Ph.D. Agric. Engineering |
| | |
| Chemical Engineering | M.Sc. Chemical Engineering (Full-Time)<br>M.Sc. Nuclear Engineering<br>PGD Chemical Engineering (Full-Time)<br>Ph.D. Chemical Engineering (Full-time)<br>Ph.D. Chemical Engineering (Part-time) |
| | |
| Civil Engineering | M.Phil. Civil Engineering<br>M.Phil. Construction Material<br>M.Phil. Geotechnics Engineering<br>M.Phil. Structure<br>M.Phil. Transportation and High Way<br>M.Sc. Civil Eng. (Full-Time)<br>M.Sc. Construction Material (Full-Time)<br>M.Sc. Geotechnics Engineering(Full-Time)<br>M.Sc. Structure (Full-Time)<br>M.Sc. Transportation and High Way (Full-Time)<br>Ph.D. Civil Eng. (Full-time)<br>Ph.D. Civil Eng. (Part-time)<br>Ph.D. Construction Material (Full-Time)<br>Ph.D. Geotechnics (Full-time)<br>Ph.D. Structure (Full-time)<br>Ph.D. Transportation and High Way (Full-Time) |

| | |
|---|---|
| Communication Engineering | M.Phil. Telecommunications Engineering<br>M.Sc. Telecommunications Engineering<br>PGD Electronics and Telecommunications<br>Ph.D. Telecommunications Engineering |
| | |
| Computer Engineering | M.Phil. Computer Engineering<br>M.Phil. Control Engineering<br>M.Sc. Computer engineering<br>M.Sc. Control Engineering<br>PGD Computer Engineering<br>PGD Data Communication and Software Engineering<br>Ph.D. Computer Engineering<br>Ph.D. Control Engineering |
| | |
| Electrical Engineering | M.Phil. Electrical/Control Engineering<br>M.Phil. Electronics Engineering<br>M.Phil. Power System Engineering<br>M.Sc. Control Engineering<br>M.Sc. Electronics Engineering<br>M.Sc. Power Machine System Engineering<br>PGD Power and Machine<br>Ph.D. Electrical Engineering (Full-time)<br>Ph.D. Control Engineering<br>Ph.D. Power System Engineering |
| | |
| Mechanical Engineering | M.Phil. Mechanical Engineering (Full-Time)<br>M.Sc. Engineering Management<br>M.Sc. Mechatronics<br>M.Sc. Oil And Gas Operations Management<br>M.Sc. Pipeline And Welding Engineering<br>M.SC Safety Engineering And Disaster Control<br>PGD Mechanical Engineering<br>PGD Oil And Gas Operations Management<br>PGD Pipeline And Welding Engineering<br>PGD Safety Engineering And Disaster Contro<br>Ph.D. Mechanical Engineering (Full-Time)<br>Ph.D. Mechanical Engineering (Part-Time) |
| | |
| Metallurgical and Material Engineering | PGD Metallurgical and Materials Engineering<br>M.Phil.Metallurgical Engineering<br>M.Sc. Metallurgical and Materials Engineering. (Full-Time)<br>Ph.D. Metallurgical and Materials Engineering (Full-Time)<br>Ph.D. Metallurgical and Materials Engineering (Part-Time) |
| | |
| Water Resources and Environmental Engineering | M.Phil. Water Resources And Environmental Engineering |

| | |
|---|---|
| | M.Sc. Water Resources & Environmental Engineering (Full-Time)<br>PGD Environmental Engineering And Management<br>PGD Water Resource Engineering<br>Ph.D. Water Resources & Environmental Engineering (Full-Time) |
| | |
| **Environmental Design** | |
| Architecture | M.Phil. Architecture<br>M.Sc. Architecture<br>Masters in Landscape Architecture (Part-Time)<br>Masters in Urban Design (Full-Time)<br>Masters in Urban Design (Part-Time)<br>PGD Landscape Architecture (Part-Time)<br>Ph.D. Architecture (Full-Time)<br>Ph.D. Architecture (Part-Time) |
| | |
| Building | M.Phil. Building Services<br>M.Phil. Construction Management<br>M.Phil. Construction Technology<br>M.Sc. Building Services (Full-time)<br>M.Sc. Construction Management (Full-time)<br>M.Sc. Construction Technology (Full-time)<br>Masters in Facilities Management (Part-time)<br>Masters of Building<br>PGD Building (Part-time)<br>Ph.D. Building Services (Full-time)<br>Ph.D. Construction Management (Full-time)<br>Ph.D. Construction Technology (Full-time) |
| | |
| Fine Arts | M.A. Arts Education (Full-time)<br>M.A. Arts History (Full-time)<br>M.Phil. Art History (Full-time)<br>M.Phil. Arts Education (Full-time)<br>M.Phil. Fine Arts Painting<br>M.Phil. Fine Arts Sculpture<br>Masters in Fine Arts - Painting (Full-time)<br>Masters in Fine Arts - Sculpture (Full-time)<br>Ph.D. Arts Education (Full-time)<br>Ph.D. Arts History (Full-time)<br>Ph.D. Painting (Full-time)<br>Ph.D. Sculpture (Full-time) |
| | |
| Industrial Design | M.A. Industrial Design (Full-time)<br>M.Sc. Glass Technology<br>M.Phil. Industrial Design<br>PGD Industrial Design<br>Ph.D. Industrial Design (Full-time)<br>Ph.D. Industrial Design (Part-time) |

| | |
|---|---|
| Quantity Surveying | M.Phil. Quantity Surveying<br>M.Sc. Project Management<br>M.Sc. Quantity Surveying<br>Ph.D. Quantity Surveying (Full-Time)<br>Ph.D. Quantity Surveying (Part-Time) |
| | |
| Urban and Regional Planning | M.Phil. Urban And Regional Planning<br>M.Sc. Regional Planning (Full-Time)<br>M.Sc. Tourism & Recreation (Full-Time)<br>M.Sc. Urban Management (Full-Time)<br>Ph.D. Urban Regional Planning (Full-time)<br>Ph.D. Urban Regional Planning (Part-time) |
| | |
| **Law** | |
| | M.A. Laws |
| Commercial Law | LLM Commercial Law<br>M.Phil. Commercial Law<br>PGD in Corporate Manag. Law (Part-Time)<br>PGD Judge Advocate Basic Course<br>Ph.D. Commercial Law |
| | |
| Islamic Law | LLM. Islamic Law<br>M.Phil. Islamic Law<br>PGD Islamic Law<br>Ph.D. Islamic Law |
| | |
| Private Law | LLM. Private Law<br>M.Phil. Private Law<br>PGD in Estate Management Law (Part-Time)<br>PGD Judge Advocate Basic Course<br>Ph.D. Private Law |
| | |
| Public Law | LLM. Public Law<br>M.Phil. Public Law<br>PGD in Intern. Law & Diplomacy (Part-Time)<br>PGD Judge Advocate Basic Course<br>Ph.D. Public Law |
| | |
| **Medicine** | |
| Chemical Pathology | M.Phil. Chemical Pathology (Full-Time)<br>M.Sc. Chemical Pathology<br>Ph.D. Chemical Pathology (Full-Time) |
| | |
| Community Medicine | M. PHIL community medicine<br>Masters Public Health (Full-Time)<br>MPH. Field and Vet. Epidemiology (FELTP) |

| | |
|---|---|
| | MPH. Labs |
| | |
| Human Anatomy | M.Phil. Human Anatomy<br>M.Sc. Human Anatomy (Full-time)<br>Ph.D. Human Anatomy (Full-Time) |
| | |
| Human Physiology | MD Human Physiology<br>M.Phil. Physiology<br>M.Sc. Human Physiology (Full-time)<br>Ph.D. Human Physiology (Full-Time)<br>Ph.D. Human Physiology (Part-Time) |
| | |
| Medicine | Doctor Of Medicine (MD)<br>M.Phil. Immunology<br>M.Sc. Immunology<br>Ph.D. Immunology |
| | |
| Nursing Sciences | M.Sc. Nursing Sciences<br>M.Phil. Nursing Sciences<br>PhD Nursing Sciences |
| | |
| Pathology (Morbid Anatomy) | M.Sc. Pathology (Clinical Lab. Mgt)<br>PhD Pathology (Clinical Lab. Mgt) |
| | |
| **Pharmaceutical Sciences** | |
| Pharmaceutical and Medicinal Chemistry | M.Phil. Pharmaceutical and Medicinal Chemistry<br>M.Sc. Pharmaceutical and Medicinal Chemistry<br>Ph.D. Pharmaceutical and Medicinal Chemistry |
| | |
| Pharmaceutics and Pharmaceutical Microbiology | M.Phil. Pharmaceutical Microbiology<br>M.Phil. Pharmaceutics<br>M.Sc. Pharmaceutical Microbiology<br>M.Sc. Pharmaceutics<br>Ph.D. Pharmaceutical Microbiology<br>Ph.D. Pharmaceutics |
| | |
| Pharmacognosy and Drug Development | M.Phil. Pharmacognosy & Drug Development<br>M.Sc. Pharmacognosy And Drug Development (Full-Time)<br>PGD Herbal Medicine<br>Ph.D. Pharmacognosy and Drug Development |
| | |
| Pharmacology and Therapeutics | PGD Pharmacology<br>M.Phil. Pharmacology<br>M.Sc. Pharmacology<br>Ph.D. Pharmacology (Part-Time) |
| | |

| **Science** | |
|---|---|
| Biochemistry | M.Phil. Biochemistry<br>M.Sc. Biochemistry (Full-Time)<br>M.Sc. Nutrition<br>PGD. Nutrition (Part-Time)<br>Ph.D. Biochemistry (Full-Time) |
| | |
| Biological Sciences | M.Phil. Biology<br>M.Phil. Botany<br>M.Phil. Fisheries<br>M.Phil. Zoology<br>PGD Fisheries<br>M.Sc. Botany<br>M.Sc. Educational Biology<br>M.Sc. Fisheries<br>M.Sc. Biology<br>M.Sc. Zoology<br>Ph.D. Fisheries<br>Ph.D. Biology<br>Ph.D. Botany<br>Ph.D. Zoology |
| | |
| Chemistry | M.Phil Chemistry<br>M.Phil Inorganic Chemistry<br>M.Phil Organic Chemistry (Full-Time)<br>M.Phil Physical and Theoretical Chemistry (Full-Time)<br>M.Phil Polymer Sci.& Tech.(Full-Time)<br>M.Phil Analytical Chemistry<br>M.Sc. Analytical Chemistry<br>M.Sc. Chemistry (Full-Time)<br>M.Sc. Chemistry (Part-Time)<br>M.Sc. Inorganic Chemistry<br>M.Sc. Organic Chemistry<br>M.Sc. Physical Chemistry (Full-Time)<br>M.Sc. Polymer Sci.& Tech.(Full-Time)<br>M.Sc. Environmental Chemistry<br>M.Sc. Petroleum Chemistry<br>Masters in Petroleum Chemistry<br>Masters in Environmental Chemistry<br>PGD Analytical Chemistry (Full-time)<br>PGD. Environmental Chemistry (Part-time)<br>Ph.D Chemistry Full-Time<br>Ph.D Organic Chemistry (Full-Time)<br>Ph.D Physical and Theoretical Chemistry (Full-Time)<br>Ph.D Polymer Sci.& Tech.(Full-Time)<br>Ph.D Analytical Chemistry<br>Ph.D Inorganic Chemistry |

| | |
|---|---|
| Geography | M.Phil. Rural Development (Full-Time)<br>M.Phil Climate Change, Policy and Innovation<br>M.Sc. Climate Change, Policy and Innovation<br>M.Sc. Disaster Risk Management<br>M.Sc. Demographic and Population Studies (Full-Time)<br>M.Sc. Environmental Management (Full-Time)<br>M.Sc. Geography (Full-Time)<br>M.Sc. Remote Sensing and GIS (Full-Time)<br>M.Sc. Rural Development (Full-Time)<br>M.Sc. Transport Management (Full-Time)<br>Masters in Disaster Risk Management<br>PGD Remote Sensing and GIS<br>PGD Climate Change, Policy and Innovation<br>PGD Disaster Risk Management<br>PGD Rural Development<br>Ph.D Climate Change Economics, Policy and Innovation<br>Ph.D Geography (Full-Time)<br>Ph.D Rural Development (Full-Time)<br>Ph.D Disaster Management |

| | |
|---|---|
| Geology | M.Phil. Geology<br>M.Sc. Geology (Full-Time)<br>PGD Environmental Geology<br>PGD Geology<br>PGD Petroleum Geology<br>Ph.D. Geology (Full-Time)<br>Ph.D. Geology (Part-Time) |

| | |
|---|---|
| Mathematics | M.Phil. Computer Science (Full-Time)<br>M.Phil. Mathematics<br>M.Phil. Statistics<br>M.Sc. Computer Science (Full-Time)<br>M.Sc. Mathematics (Full-Time)<br>M.Sc. Statistics (Full-Time)<br>PGD. Computer Science (Part-Time)<br>PGD. Statistics (Part-Time)<br>Ph.D. Computer Science<br>Ph.D. Computer Science (Part-Time)<br>Ph.D. Mathematics<br>Ph.D. Mathematics (Part-Time)<br>Ph.D. Statistics<br>Ph.D. Statistics (Part-Time) |

| | |
|---|---|
| Microbiology | M.Phil. Microbiology<br>M.Sc. Microbiology (Full-Time)<br>PGD Microbiology (Part-Time)<br>Ph.D. Microbiology (Full-Time)<br>Ph.D. Microbiology (Part-Time) |

| | |
|---|---|
| Physics | M.Phil. Applied Geophysics<br>M.Phil. Physics<br>M.Phil. Radiation Physics<br>M.Sc. Applied Geophysics (Full-Time)<br>M.Sc. Geophysics (Full-Time)<br>M.Sc. Nuclear Science<br>M.Sc. Physics (Full-Time)<br>M.Sc. Radiation Biophysics (Full-Time)<br>M.Sc. Radiation Biophysics (Part-Time)<br>PGD Radiation Protection And Safety<br>Ph.D. Applied Geophysics (Full-Time)<br>Ph.D. Physics (Full-Time)<br>Ph.D. Radiation Biophysics (Full-Time) |
| | |
| Textile Science and Technology | M.Phil. Colour Chemistry (Full-Time)<br>M.Phil.Fibre& Polymer (Full-Time)<br>M.Phil. Textile Chemistry (Full-Time)<br>M.Phil. Textile Evaluation (Full-Time)<br>M.Phil. Textile Science And Technology<br>M.Sc. Colour Chem. & Tech.(Full-Time)<br>M.Sc. Textile Sci.& Tech.(Full-Time)<br>PGD Text. Science & Tech. (Part-Time)<br>Ph.D. Colour Chemistry (Full-Time)<br>Ph.D.Fibre& Polymer (Full-Time)<br>Ph.D. Textile Chemistry (Full-Time)<br>Ph.D. Textile Evaluation (Full-Time)<br>Ph.D. Textile Science Technology |
| | |
| **Social Science** | |
| Economics | M.Phil. Economics<br>M.Sc. Economics (Full-time)<br>Ph.D. Economics (Full-time) |
| | |
| Mass Communication | M.Sc. Mass Communication (Full-time)<br>PGD Mass Communication (Part-Time) |
| | |
| Political Science | M.Phil. Political Science<br>M.Sc. Political Science (Full-time)<br>Ph.D International Relations<br>PGDC Peace and Conflict Management<br>Masters in Intern. Affairs & Diplomacy (MIAD)(Part-time)<br>Masters in Peace and Conflict Management<br>M.Sc. International Relations<br>PGD. Election Administration (PGDEA)<br>Ph.D. Political Science (Full-time)<br>Ph.D Peace and Conflict Management<br>Ph.D International Relations |

| | |
|---|---|
| Sociology | M.Phil. Sociology<br>M.Sc. Sociology (Full-time)<br>Masters in Law Enforc. Criminal Justice (MLC) (Part-Time)<br>Ph.D. Sociology |
| | |
| **Veterinary Medicine** | |
| Theriogenology and Production | M.Phil. Theriogenology<br>M.Sc. Theriogenology<br>Ph.D. Theriogenology |
| | |
| Veterinary Anatomy | M.Phil. Veterinary Anatomy<br>M.Sc. Veterinary Anatomy (Full-Time)<br>Ph.D. Veterinary Anatomy |
| | |
| Veterinary Medicine | M.Phil. Avian Medicine<br>M.Sc. Food Animal Medicine<br>PhD Food Animal Medicine<br>M.Phil. Food Animal Medicine<br>M.Sc. Equine Medicine<br>PhD Equine Medicine<br>MPhil Equine Medicine<br>M.Sc. Aquatic Medicine<br>M.Sc. Wildlife Medicine<br>M.Sc. Small Animal Dermatology<br>M.Sc. Small Animal Internal Medicine<br>PhD Small Animal Internal Medicine<br>MPhil Small Animal Internal Medicine<br>M.Phil. Small Animal Infectious Diseases<br>M.Sc. Avian Medicine<br>M.Sc. Small Animal Infectious Diseases<br>Master of Tropical Veterinary Medicine (MTVM)<br>Ph.D. Avian Medicine<br>Ph.D. Small Animal Infectious Diseases |
| | |
| Veterinary Microbiology | M.Phil. Veterinary Microbiology<br>M.Sc. Veterinary Microbiology<br>Ph.D. Veterinary Microbiology |
| | |
| Veterinary Parasitology and Entomology | M.Phil. Veterinary Entomology<br>M.Phil. Veterinary Helminthology<br>M.Phil. Veterinary Protozoology<br>M.Sc. Veterinary Entomology<br>M.Sc. Veterinary Helminthology<br>M.Sc. Veterinary Protozoology<br>PGD. Veterinary Parasitology (PGDVP) |

| | |
|---|---|
| | Ph.D. Veterinary Entomology<br>Ph.D. Veterinary Helminthology<br>Ph.D. Veterinary Protozoology |
| | |
| Veterinary Pathology | M.Phil. Veterinary Pathology<br>M.Sc. Veterinary Pathology<br>Ph.D. Veterinary Pathology |
| | |
| Veterinary Physiology | M.Sc. Veterinary Physiology<br>MPhil Veterinary Physiology<br>PhD Veterinary Physiology |
| | |
| Veterinary Pharmacology and Toxicology | M.Phil. Veterinary Pharmacology<br>M.Phil. Veterinary Toxicology<br>M.Sc. Veterinary Pharmacology<br>M.Sc. Veterinary Toxicology<br>Ph.D. Veterinary Pharmacology<br>Ph.D. Veterinary Toxicology |
| | |
| Veterinary Public Health and Preventive Medicine | M.Phil. Veterinary Public Health And Preventive Medicine<br>M.Sc. Veterinary Public Health And Preventive Medicine<br>PGD Food Hygiene (Part-time)<br>PGD Veterinary Epidemiology<br>Ph.D. Veterinary Public Health And Preventive Medicine |
| | |
| Veterinary Surgery and Radiology | MPhil Veterinary Anaesthesiology<br>MPhil Veterinary Diagnostic Imaging<br>PhD Veterinary Anaesthesiology<br>MPhil Orthopaedic Surgery<br>PhD Orthopaedic Surgery<br>M.Sc. Soft Tissue Surgery<br>MPhil Soft Tissue Surgery<br>PhD Soft Tissue Surgery<br>PhD Veterinary Diagnostic Imaging<br>M.Sc. Equine Surgery<br>MPhil Equine Surgery<br>PhD Equine Surgery<br>M.Sc. Food Animal Surgery<br>MPhil Food Animal Surgery<br>PhD Food Animal Surgery<br>M.Sc. Wildlife Surgery<br>M.Phil. Wildlife Surgery<br>PhD Wildlife Surgery<br>M.Sc. Orthopaedic Surgery<br>M.Sc. Soft Tissues Surgery (Full-Time) |

| | |
|---|---|
| | M.Sc. Veterinary Anaesthesiology<br>M.Sc. Veterinary Diagnostic Imaging<br>M.Sc. Veterinary Surgery<br>Ph.D. Veterinary Surgery |

**N.B:** All M.A/M.Ed./M.Sc. programmes are on a Full Time basis

# PART 2

# POSTGRADUATE PROGRAMMES

## CHAPTER 1

## FACULTY OF ADMINISTRATION

### 1.1 DEPARTMENT OF ACCOUNTING

*Postgraduate programmes*

1. Postgraduate Diploma in Accounting and Finance
2. Masters in Banking and Finance
3. Masters in Accounting
4. M.Sc. Accounting and Finance
5. Ph.D. Accounting and Finance

#### 1.1.1 Postgraduate Diploma in Accounting and Finance (PGDAF)

*Admission Requirement*

Bachelor's degree in Accounting with at least third class degree from Ahmadu Bello University or any other recognized University, or HND with a minimum of lower Credit in Accountancy, Business Administration/Management, and Banking and Finance from recognized Polytechnic. Applicants that reach high managerial position in the financial sector with good degree in other fields would also be considered.

*Graduation Requirement*

Postgraduate Diploma in Accounting and Finance programme runs for 12 months (Part-Time). The total credit units required to graduate for PGDAF programme is 36. Candidates are required to present six seminar papers during the course work to be integrated in to a single paper in lieu of project.

*Course Structure*

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 713 | Intermediate Accounting | 2 |
| ACCT 715 | Financial Management | 2 |
| ACCT 717 | Cost Accounting | 2 |
| ACCT 719 | Commercial law | 2 |
| ACCT 721 | Research Methodology | 2 |
| ACCT 723 | Taxation | 2 |
| ACCT 725 | Principles and Practice of Banking | 3 |
| ACCT 781 | Seminar 1 | 1/semester |
| ACCT 791 | Project 1 | 3/semester |
| **Semester 2** | | |
| ACCT 714 | Advance corporate Accounting | 2 |
| ACCT 716 | Management Accounting | 2 |
| ACCT 718 | Company Law | 2 |
| ACCT 720 | Management Information System | 2 |
| ACCT 724 | Auditing | 2 |
| ACCT 782 | Seminar II | 1/semester |
| ACCT 792 | Project II | 3/semester |

#### 1.1.2 Master of Banking and Finance (MBF)

*Admission Requirements*

Candidates with at least second-class degree (Lower Division) in Accounting, Business or Economics from Ahmadu Bello University or any recognized university. Candidates with Postgraduate diploma in Accounting and finance from Ahmadu Bello University with a minimum of merit. In addition, candidates with HND in Accounting or Banking & Finance or third class degree in Accounting from a recognized Institution with Professional qualification from recognized professional body. (i.e. ICAN or ANAN).

*Graduation Requirements*
A minimum of 36 credit units are required for Master of Banking and Finance (Part-Time) which runs for 24 months plus a project, which require external moderation.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 811 | Theory and Practice of Banking | 3 |
| ACCT 813 | Quantitative Methods in Banking and Finance | 3 |
| ACCT 815 | Financial Accounting | 3 |
| ACCT 817 | International Economics | 3 |
| ACCT 819 | Comparative Banking | 3 |
| ACCT 821 | Security Analysis and Portfolio Management | 3 |
| ACCT 823 | Banking Law and Regulation | 3 |
| ACCT 825 | Management Accounting | 3 |
| ACCT 827 | Banking Ethics and Customer Relations | 3 |
| ACCT 881&883 | Seminar I & III | 1CU/semester |
| ACCT 891&893 | Research/Thesis I & III | 3CU/semester |

**Semester 2**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 812 | Research Method | 3 |
| ACCT 814 | Financial Management | 3 |
| ACCT 816 | Bank Lending and Credit Administration | 3 |
| ACCT 818 | Marketing of Financial Products | 2 |
| ACCT 820 | Corporate Accounting | 2 |
| ACCT 882&884 | Seminar II & IV | 1CU/semester |
| ACCT 892&894 | Research/Thesis II & IV | 3CU/semester |

### 1.1.3 Master in Accounting (MAC)

*Admission Requirements*
The minimum entry qualifications for the programme are:

a) B.Sc. Accounting, B.Sc. Business Administration (with specialisation in Banking & Finance), and B.Sc. Banking and/or Finance at a minimum of a Second Class (Lower Division) from any recognised university in Nigeria or elsewhere.
b) HND in Accounting, Business Administration, Economics, and Banking and/or Finance from accredited institution coupled with recognised professional qualification; such as ACA, ACCA, ACIB, ICAN, ACS, and ANAN among others.
c) Candidates with third class degree in B.Sc. Accounting, B.Sc. Business Administration, B.Sc. Economics, and B.Sc. Banking and/or Finance are also eligible provided they have Post-Graduate Diploma in Accounting and Finance (PGDAF) or a 5-year post graduation relevant work experience.
d) Candidates with HND in Accounting, Business Administration, Economics, and Banking and/or Finance from accredited institution with distinction, upper credit or lower credit but without professional qualifications should also have Post-Graduate Diploma in Accounting and Finance (PGDAF) or recognised equivalent qualification.
e) Candidates that reach high accounting/finance managerial positions in the financial or public sector, with good degree in other fields would also be considered.

*Graduation Requirements*
A minimum of 36 credit units are required for Master of Accounting (Part-Time) which runs for 24 months plus a project, which require external moderation.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 851 | Accounting Theory and Regulatory Framework | 3 |
| ACCT 853 | Strategic Financial Management | 3 |
| ACCT 855 | Taxation and Tax Management | 3 |
| ACCT 857 | Public Finance and International Trade | 3 |
| ACCT 859 | Managerial Economics | 3 |
| ACCT 861 | Advanced Financial Accounting & Reporting | 3 |
| ACCT 863 | Corporate Investment Policy Management | 3 |
| ACCT 865 | Auditing and Assurance Services | 3 |
| ACCT 867 | Accounting Workshop | 3 |
| ACCT 881&883 | Seminar I & III | 1CU/semester |
| ACCT 891&893 | Research/Thesis I & III | 3CU/semester |

**Semester 2**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 852 | Contemporary Issues in Management Accounting | 3 |
| ACCT 854 | Security Analysis and Portfolio Management | 3 |
| ACCT 856 | Research Methodology | 3 |
| ACCT 858 | Treasury Management | 3 |
| ACCT 860 | Operational Research | 3 |
| ACCT 882&884 | Seminar II & IV | 1CU/semester |
| ACCT 892&894 | Research/Thesis II & IV | 4CU/semester |

### 1.1.4 M.Sc. Accounting and Finance

*Admission Requirement of the Programme*

Bachelor of Science at Second Class Upper leveland above in Accounting and other eligible disciplines from a recognized University.

In exceptional cases candidates with a high Bachelor of Science at Second Class Lower level in Accounting from a recognized University with a minimum of 5 years relevant post qualification experience and evidence of scholarship.

Candidates with MBA/MBF degree (in addition to 1st Degree) in Accounting from a recognized University with cumulative average of at least 3.5 in a 5.0 point scale or 3.0 in 4.0 point system or average of B in A-E Scale. In addition, candidates with good M. Sc degree in Banking & Finance or Economics from a recognized University, however such candidates will be required to take some prerequisite courses at the appropriate level.

*Graduation Requirement*

A Minimum of 30 credit units is required for M.Sc. Accounting, which runs for a minimum of 18 months (Full-Time), plus a thesis that require the following:

1. One seminar paper
2. Proposal defence for the thesis
3. Internal defence for the thesis
4. External defence for the thesis

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 801 | Accounting Theory and Measurement | 3 |
| ACCT 803 | Financial Management | 3 |
| ACCT 805 | Quantitative Methods | 3 |
| ACCT 807 | Research Methods | 3 |
| ACCT 811 | Advanced Financial Accounting | 2 |
| ACCT 821 | Accounting Information System | 2 |
| ACCT 831 | Advanced Management Accounting | 2 |
| ACCT 841 | Advanced Auditing & Investigation | 2 |
| ACCT 843 | Business Ethics Corporate Governance | 2 |
| ACCT 851 | Advanced Taxation Laws & Accounts | 2 |
| ACCT 861 | Advanced Public Sector Accounting | 2 |
| ACCT 871 | Advanced International Accounting | 2 |

| | | |
|---|---|---|
| ACCT 881&883 | Seminar I & III | 1CU/semester |
| ACCT 891&893 | Research/Thesis I & III | 4CU/semester |

**Semester 2**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 802 | Managerial Economics | 3 |
| ACCT 820 | Accounting Systems | 3 |
| ACCT 882 | Seminar II & IV | 1CU/semester |
| ACCT 892 | Research/Thesis II & IV | 4CU/semester |
| ACCT 810 | Financial Statement Linkages | 2 |
| ACCT 840 | Forensic Accounting | 2 |
| ACCT 842 | Corporate Policy and Strategy | 2 |

### 1.1.5 Ph.D. Accounting and Finance

*Admission Requirement*

Candidates with an M.Sc. degree in Accounting and Finance from Ahmadu Bello University or any recognized university with a CGPA of not less than 3.50 are admissible into the Programme.

*Graduation Requirements*

For Doctoral degree, programme 30 credit units are required to graduate while the programme runs for 36 months (Full-Time) with the following additional requirements:

i. Two seminar papers
ii. Proposal defence for the dissertation
iii. Internal defence for dissertation
iv. External defence for dissertation

*Course Structure*

**Semester 1:**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 901 | Contemporary issues and seminar in Accounting Theory | 4 |
| ACCT 903 | Advance Economic theory | 4 |
| ACCT 981, 983, 985 | Seminar I, III & V | 1CU/semester |
| ACCT 991, 993, 995 | Research/Dissertation I, III & V | 6CU/semester |

**Semester 2:**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ACCT 902 | Seminars in Finance | 4 |
| ACCT 904 | Research Method and Quantitative Method | 4 |
| ACCT 982, 984 & 986 | Seminar II, IV & VI | 1CU/semester |
| ACCT 992, 994 & 996 | Research/Dissertation II, IV & VI | 6CU/semester |

## 1.2 DEPARTMENT OF BUSINESS OF ADMINISTRATION

### 1.2.1 Postgraduate Diploma in Management (PGDM)

*Admission Requirement:*

a) Five credits at O'Level in not more than two sittings including English Language and Mathematics.
b) A HND with a minimum of Lower Credit/ Merit in management or any of the management related fields from anyrecognized Polytechnic with at least two years relevant post-qualification experience.
c) Holders of first degree in any field may be considered.

*Graduation Requirements:*

PGDM students must earn a total of 30 credit units to graduate including project writing which has 4 credit units. Students must therefore, complete their project writing within the stipulated period of the programme which is externally moderated and certified by the Department.

*Course Structure*

**First Semester**

| Code | Course title | Credit Units | Core/elective |
|---|---|---|---|
| BUAD 711 | Principles of Management | 2 | Core |
| BUAD 713 | Principles of Accounting | 2 | Core |

| | | | |
|---|---|---|---|
| BUAD 715 | Principles of Micro Economics | 2 | Core |
| BUAD 717 | Fundamentals of marketing | 2 | Core |
| BUAD 719 | Principles of Finance | 2 | Core |
| BUAD 721 | Business Mathematics | 2 | Core |
| BUAD 723 | Research Methodology | 2 | Core |
| BUAD 791 | Research Project | 3/Semester | Core |
| | | | |
| **Second Semester** | | | |
| | | | |
| BUAD 712 | Introduction to Public Administration | 2 | Core |
| BUAD 714 | Principles of Macro Economics | 2 | Core |
| BUAD 716 | Human Resource Management | 2 | Core |
| BUAD 718 | Computers in Organisation | 2 | Core |
| BUAD 720 | Global Economic Environment | 2 | Core |
| BUAB 782 | Seminar | 1/Semester | Core |
| BUAD 792 | Research Project | 3/Semester | Core |
| | | | |

(All Courses are Compulsory)

**1.2.2 Master of Business Administration (MBA) Regular (Full and Part Time)**

*Admission Requirements:*

a) All candidates must possess the basic university entry requirement of five credit passes including English and Mathematics at O' Level.
b) All candidates must have minimum of one year managerial/administrative experience in addition to performing satisfactorily at the University's MBA Entrance Examination.
c) Bachelor's degree in any field of study with at least a second class lower or 2.40 Cumulative Grade Point Average from Ahmadu Bello University or any recognized University,
d) However, candidates with Bachelor's degree in Business Administration/ Management or any related field such as marketing, Banking and Finance, Insurance and or actuarial science with at least a Second Class Lower or 2.40 Cumulative Grade Point Average from Ahmadu Bello University or any other recognized University may be considered given some advanced credits on the basis of their performances conveyed through their academic transcripts.
e) HND holders from any recognized Polytechnic with a minimum of Lower Credit/ Merit in Management or its related fields who are holders of professional certificates such as ANAN,ACIB and ACA may be considered
f) Postgraduate Diploma in Management (PGDM) from Ahmadu Bello University (ABU) only.

*Specific Requirements for MBA Full-Time:*

1) Bachelor's degree in Business Administration/Management or any related field such as Marketing, Banking & Finance, Insurance and or Actuarial Science with at least a Second Class Lower or 2.40 Cumulative Grade Point Average from Ahmadu Bello University or any other recognized University OR

2) Postgraduate Diploma in Management (PGDM) from Ahmadu Bello University (ABU) only.

*Duration ofthe Programme*

The MBA Programme is to continue to run in three categories with the specified minimum duration as follows:

i) The Full-time MBA programme runs for a minimum of twelve months.
ii) The Part-time (Regular) runs for a minimum of twenty-four months.
iii) The Part-time (Special) runs for a minimum of thirty-six months.

Minimum of 36 calendar months including 3months of internship

*Graduation Requirements*

| S/N | Status of Course | Number | Credits | Total Credits |
|---|---|---|---|---|
| 1 | Core Courses | 21 | 3 | 63 |
| 2 | Elective Courses | 5 | 3 | 15 |
| 3 | Graduate Seminar | | 3 | 3 |
| 4 | Project | | 6 | 6 |
| 5 | Internship | | 3 | 3 |

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|---|---|---|---|---|
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*Course Structure for MBA (Regular) Full-Time*

**First Semester**

| Course Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 817 | MBA Language Programme | 3 | Core |
| BUAD 819 | Management & Organizational Behaviour | 3 | Core |
| BUAD 821 | Business Ethics & Corporate Governance | 3 | Core |
| BUAD 823 | Environment of Business | 3 | Core |
| BUAD 837 | Quantitative Methods for Management | 3 | Core |
| BUAD 839 | Managerial Finance | 3 | Core |
| BUAD 881 | Seminar I | 1/Semester | Core |
| BUAD 891 | Research/Project I | 3/Semester | Core |
| **Finance & Investment Specialisation** | | | |
| BUAD 811 | Financial System & Bank Management | 3 | Elective |
| BUAD 829 | Monetary Theory & Policy | 3 | Elective |
| BUAD 827 | Financial Markets and Economic Development | 3 | Elective |
| BUAD 845 | Portfolio Theory and Capital Market Analysis | 3 | Elective |
| BUAD 847 | Management of Financial Institutions | 3 | Elective |
| **Human Resources Specialisation** | | | |
| BUAD 829 | Managerial Problem Solving | 3 | Elective |
| BUAD 831 | Organizational Design | 3 | Elective |
| BUAD 849 | Organisational Change & Development | 3 | Elective |
| BUAD 851 | Labour Management Relations | 3 | Elective |
| **Marketing Specialisation** | | | |
| BUAD 833 | Advertising Management | 3 | Elective |
| BUAD 835 | Relationship Marketing | 3 | Elective |
| BUAD 853 | Advanced Marketing Research | 3 | Elective |
| BUAD 857 | International Marketing | 3 | Elective |

**Second Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 822 | MIS/ ICT Management | 3 | Core |
| BUAD 824 | Human Resource Management | 3 | Core |
| BUAD 826 | Research Methodology | 3 | Core |
| BUAD 828 | Marketing Management and Strategy | 3 | Core |
| BUAD 836 | Business Policy & Strategy | 3 | Core |
| BUAD 838 | Entrepreneurship & Small Business Development | 3 | Core |
| BUAD 882 | Seminar II | 1/Semester | Core |
| BUAD 892 | Research/Project II | 3/Semester | Core |
| BUAD 840 | Internship | 3 | Mandatory |
| **Finance & Investment Specialisation** | | | |
| BUAD 810 | Investment and Project Analysis | 3 | Elective |
| BUAD 830 | International Business Finance | 3 | Elective |
| BUAD 832 | Business, Government & Society | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |
| **Human Resources Specialisation** | | | |
| BUAD 814 | Personnel Performance Evaluation & Management | 3 | Elective |
| BUAD 816 | Theory & Administration of Compensation | 3 | Elective |
| BUAD 836 | Advanced Organisationl Behaviour | 3 | Elective |
| BUAD 832 | Business, Government & Society | 3 | Elective |
| BUAD 8 34 | Purchasing & Supply Chain Management | 3 | Elective |
| **Marketing Specialisation** | | | |
| BUAD 818 | Product Development & Pricing Policies | 3 | Elective |
| BUAD 820 | Consumer Behavior | 3 | Elective |

| | | | |
|---|---|---|---|
| BUAD 838 | Industrial Marketing | 3 | Elective |
| BUAD 832 | Business, Government & Society | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |

*Course Structure of MBA (Regular) Part -Time*

**First Semester**

| Course Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 817 | MBA Language Programme | 3 | Core |
| BUAD 819 | Management & Organizational Behaviour | 3 | Core |
| BUAD 821 | Business Ethics & Corporate Governance | 3 | Core |
| BUAD 823 | Environment of Business | 3 | Core |
| BUAD 881 | Seminar I | 1/Semester | Core |
| BUAD 891 | Research/Project I | 3/Semester | Core |
| **Finance & Investment Specialisation** | | | |
| BUAD 829 | Monetary Theory & Policy | 3 | Elective |
| BUAD 827 | Financial Markets and Economic Development | 3 | Elective |
| BUAD 811 | Financial System & Bank Management | 3 | Elective |
| **Human Resources Specialisation** | | | |
| BUAD 821 | Managerial Problem Solving | 3 | Elective |
| BUAD 831 | Organizational Design | 3 | Elective |
| BUAD 813 | Industrial Relations | 3 | Elective |
| **Marketing Specialisation** | | | |
| BUAD 833 | Advertising Management | 3 | Elective |
| BUAD 835 | Relationship Marketing | 3 | Elective |
| BUAD 815 | Marketing Thought | 3 | Elective |

**Second Semester**

| Course Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 822 | MIS / ICT Management | 3 | Core |
| BUAD 824 | Human Resource Management | 3 | Core |
| BUAD 826 | Research Methodology | 3 | Core |
| BUAD 828 | Marketing Management and Strategy | 3 | Core |
| BUAD 882 | Seminar II | 1/Semester | Core |
| BUAD 892 | Research/Project II | 3/Semester | Core |
| | | | |
| **Finance & Investment Specialisation** | | | |
| BUAD 830 | International Business Finance | 3 | Elective |
| BUAD 832 | Business, Government & Society | 3 | Elective |
| BUAD 810 | Investment and Project Analysis | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |
| **Human Resources Specialisation** | | | |
| BUAD 836 | Advanced Organisationl Behaviour | 3 | Elective |
| BUAD 832 | Business, Government & Society | 3 | Elective |
| BUAD 816 | Theory & Administration of Compensation | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |
| **Marketing Specialisation** | | | |
| BUAD 838 | Industrial Marketing | 3 | Elective |
| BUAD 832 | Business, Government & Society | 3 | Elective |
| BUAD 818 | Product Development & Pricing Policies | 3 | Elective |
| BUAD 820 | Consumer Behavior | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |

**Third Semester**

| Course Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 837 | Quantitative Methods for Management | 3 | Core |
| BUAD 839 | Managerial Finance | 3 | Core |
| BUAD 841 | Graduate Seminar | 3 | Core |
| BUAD 843 | Business Ethics & Corporate Governance | 3 | Core |

| | | | |
|---|---|---|---|
| BUAD 883 | Seminar III | 1/Semester | Core |
| BUAD 893 | Research/Project III | 3/Semester | Core |
| **Finance & Investment Specialisation** | | | |
| BUAD 845 | Portfolio Theory and Capital Market Analysis | 3 | Elective |
| BUAD 847 | Management of Financial Institutions | 3 | Elective |
| **Human Resources Specialisation** | | | |
| BUAD 849 | Organisational Change & Development | 3 | Elective |
| BUAD 851 | Labour Management Relations | 3 | Elective |
| **Marketing Specialisation** | | | |
| BUAD 853 | Advanced Marketing Research | 3 | Elective |
| BUAD 857 | International Marketing | 3 | Elective |

**Fourth Semester**

| Course Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 836 | Business Policy & Strategy | 3 | Core |
| BUAD 838 | Entrepreneurship & Small Business Development | 3 | Core |
| BUAD 884 | Seminar IV | 1/Semester | Core |
| BUAD 894 | Research/Project IV | 3/Semester | Core |
| BUAD 840 | Internship | 3 | Mandatory |

### 1.2.3 Master of Business Administration (MBA) Special (Part-time)

*Course Structure*

**First Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 801 | Management Theory & Practice | 3 | Core |
| BUAD 803 | Principles of Accounting | 3 | Core |
| BUAD 805 | Managerial Economics | 3 | Core |
| BUAD 807 | Fundamentals of Marketing | 3 | Core |
| BUAD 809 | Global Business Environment | 3 | Core |
| BUAD 881 | Seminar I | 1/Semester | Core |
| BUAD 891 | Research/Project 1 | 3/Semester | Core |
| | | | |
| **MBA Finance & Investment Specialisation** | | | |
| BUAD 811 | Financial System & Bank Management | 3 | Elective |
| | | | |
| **MBA Human Resources Specialisation** | | | |
| BUAD 813 | Organisational Conflict & Industrial Relations | 3 | Elective |
| | | | |
| **MBA Marketing Specialisation** | | | |
| BUAD 815 | Marketing Thoughts & Philosophy | 3 | Elective |
| | | | |

**Second Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 802 | Production & Operations Management | 3 | Core |
| BUAD 804 | Corporate Financial Management | 3 | Core |
| BUAD 806 | Business Statistics & Quantitative Analysis | 3 | Core |
| BUAD 808 | Business & Company Law | 3 | Core |
| BUAD 882 | Seminar II | 1/Semester | Core |
| BUAD 892 | Research/Project II | 3/Semester | Core |
| | | | |
| **MBA Finance & Investment Specialisation** | | | |
| BUAD 810 | Investment and Project Analysis | 3 | Elective |
| BUAD 812 | Analysis for Business Decisions | 3 | Elective |

| | | | |
|---|---|---|---|
| **MBA Human Resources Specialisation** | | | |
| BUAD 814 | Personnel Performance Evaluation & Management | 3 | Elective |
| BUAD 816 | Theory & Administration of Compensation | 3 | Elective |
| | | | |
| **MBA Marketing Specialisation** | | | |
| BUAD 818 | Product Development & Pricing Policies | 3 | Elective |
| BUAD 820 | Consumer Behavior | 3 | Elective |

**Third Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 817 | MBA Language Programme | 3 | Core |
| BUAD 819 | Management and Organizational Behaviour | 3 | Core |
| BUAD 821 | Business Ethics & Corporate Governance | 3 | Core |
| BUAD 823 | Environment of Business | 3 | Core |
| BUAD 883 | Seminar III | 1/Semester | Core |
| BUAD 893 | Research/Project III | 3/Semester | Core |
| **MBA Finance & Investment Specialisation** | | | |
| BUAD 825 | Monetary Theory & Policy | 3 | Elective |
| BUAD 827 | Financial Markets And Economic Development | 3 | Elective |
| | | | |
| **MBA Human Resources Specialisation** | | | |
| BUAD 829 | Managerial Problem Solving | 3 | Elective |
| BUAD 831 | Organizational Design & Dynamics | 3 | Elective |
| | | | |
| **MBA Marketing Specialisation** | | | |
| BUAD 833 | Advertising Management | 3 | Elective |
| BUAD 835 | Relationship Marketing | 3 | Elective |
| | | | |

**Fourth Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 822 | MIS/ICT Management | 3 | Core |
| BUAD 824 | Human Resources Management | 3 | Core |
| BUAD 826 | Research Methodology | 3 | Core |
| BUAD 828 | Marketing Management and Strategy | 3 | Core |
| BUAD 884 | Seminar IV | 1/Semester | Core |
| BUAD 894 | Research/Project IV | 3/Semester | Core |
| **MBA Finance & Investment Specialisation** | | | |
| BUAD 830 | International Business Finance | 3 | Elective |
| BUAD 832 | Business ,Government & Society | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |
| **MBA Human Resources Specialisation** | | | |
| BUAD 836 | Advanced Organizational Behaviour & Seminar | 3 | Elective |
| BUAD 832 | Business ,Government & Society | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |
| **MBA Marketing Specialisation** | | | |
| BUAD 838 | Industrial Marketing | 3 | Elective |
| BUAD 832 | Business ,Government & Society | 3 | Elective |
| BUAD 834 | Purchasing & Supply Chain Management | 3 | Elective |

**Fifth Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 837 | Quantitative Methods for Managers | 3 | Core |
| BUAD 839 | Managerial Finance | 3 | Core |
| BUAD 841 | Graduate Seminar | 3 | Core |
| BUAD 843 | Business Ethics & Corporate Governance | 3 | Core |
| BUAD 885 | Seminar V | 1/Semester | Core |
| BUAD 895 | Research/Project V | 3/Semester | Core |
| **MBA Finance & Investment Specialisation** | | | |

| | | | |
|---|---|---|---|
| BUAD 845 | Portfolio Theory And Capital Market Analysis | 3 | Elective |
| BUAD 847 | Management Of Financial Institutions | 3 | Elective |
| | | | |
| **MBA Human Resources Specialisation** | | | |
| BUAD 849 | Organisational Change & Development | 3 | Elective |
| BUAD 851 | Labour Management Relations | 3 | Elective |
| | | | |
| **MBA Marketing Specialisation** | | | |
| BUAD 853 | Advanced Marketing Research | 3 | Elective |
| BUAD 857 | International Marketing | 3 | Elective |
| | | | |

**Sixth Semester**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAD 836 | Business Policy & Strategy | 3 | Core |
| BUAD 838 | Entrepreneurship & Small Business Development | 3 | Core |
| BUAD 840 | Internship | 3 | Mandatory |
| BUAD 886 | Seminar VI | 1/Semester | Core |
| BUAD 896 | Research/Project VI | 3/Semester | Mandatory |

**1.2.4 M.Sc. (Business Administration)**

*Admission Requirements:*

**a)** Admission into the M. Sc. Degree programme is open to candidates who possess a Bachelor of science degree in Business Administration, management, Marketing, finance, insurance, Actuarial science from any recognized University with a minimum of (2:1) Second class Upper division.

b) M.Sc. in any management related field with Cumulative Grade Point Average of 3.5 may be considered but such candidates may be required to take some pre-requisite courses at the MBA level.

*Graduation Requirements*

To be eligible for the award of M.Sc. Degree in Management, the student must register and pass a minimum of 36 units made up of 26 units of core courses, 4 units of elective courses and 6 units of thesis.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 801 | Research Methodology | 2 | Core |
| BUAM 803 | Quantitative Analysis | 2 | Core |
| BUAM 805 | Advanced Organizational Behavior | 2 | Core |
| BUAM 807 | Management Theory | 2 | Core |
| BUAM 809 | Strategic Management | 2 | Core |
| BUAM 811 | Economic Theory | 2 | Core |
| BUAM 881 | M.Sc. Seminar I | 1/Semester | Core |
| BUAM 891 | Research/Thesis I | 4/Semester | Core |
| **Electives** | | | |
| **Course Code** | **Course Title** | **Credit Unit** | |
| BUAM 813 | Operations Management | 2 | elective |
| BUAM 815 | Relationship Marketing | 2 | elective |

**Second Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 802 | Management Information System | 2 | Core |
| BUAM 804 | Reward & Compensation Management | 2 | Core |
| BUAM 806 | Global Economic Environment | 2 | Core |
| BUAM 808 | Strategy and Structure | 2 | Core |
| BUAM 810 | Comparative Management | 2 | Core |
| BUAM 812 | Diversity and Conflict Management | 2 | Core |
| BUAD 882 | Seminar II | 1/Semester | Core |
| BUAD 892 | Research/Thesis II | 4/Semester | Core |
| **Electives** | | | |

| Course Code | Course Title | Credit Unit | |
|---|---|---|---|
| BUAM 814 | Corporate Financial Management | 2 | elective |
| BUAM 816 | Business Policy | 2 | elective |
| BUAM 818 | International Business Management | 2 | elective |
| BUAM 820 | Economy and Industry Analysis | 2 | elective |

**Third Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAD 883 | Seminar III | 1/Semester | Core |
| BUAM 893 | Research/Thesis III | 4/Semester | Core |
| | | | |

**Fourth Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAD 884 | Seminar IV | 1/Semester | Core |
| BUAM 894 | Research/Thesis IV | 4/Semester | Core |

### 1.2.5 M. Sc. Banking and Finance

*Admission Requirements:*

The following are considered qualified and admissible into the MSc (Banking & Finance) programme:

i) Candidates with a good Bachelor of Science degree (minimum of second class upper division) in Banking and Finance and other related disciplines (Business Admin, Accounting, Economics & Insurance).

ii) Candidates with a good MBA/MBF degree from a recognized university with a cumulative grade point average of at least 3.5 in a 5.0 point scale or 3.0 in a 4.0 point system or an average of B grade in an A-E scale may be admitted.

iii) In special cases candidates with a Bachelor of Science degree (a minimum of second class lower division) in banking and finance and other related disciplines with a minimum of 5 years relevant post qualification experience or evidence of scholarship may be considered.

iv) Applicants in category iii) above may be given advanced credits in appropriate courses.

*Course Structure*

**First Semester:**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAM 817 | Quantitative Methods for Managers | 3 | Core |
| BUAM 819 | Monetary Theory and Policy | 3 | Core |
| BUAM 821 | Managerial Economics | 3 | Core |
| BUAM 881 | M.Sc. Seminar I | 1/Semester | Core |
| BUAM 891 | Research/Thesis I | 4/Semester | Core |
| | | | |
| **Electives** | | | |
| BUAM 823 | Management Theory & Practice | 3 | Elective |
| BUAM 825 | Corporate Policy & Strategy | 3 | Elective |
| BUAM 827 | Environment of Business | 3 | Elective |
| BUAM 829 | Risk Management | 3 | Elective |
| BUAM 831 | Marketing Strategies | 3 | Elective |
| BUAM 833 | Business Ethics and Corporate Governance | 3 | Elective |
| BUAM 835 | Banking Laws & Regulations | 3 | Elective |
| BUAM 837 | Futures and Derivatives | 3 | Elective |
| BUAM 839 | International Finance | 3 | Elective |
| BUAM 841 | Operations Research | 3 | Elective |

**Second Semester:**

| Code | Course title | Credit units | Core/elective |
|---|---|---|---|
| BUAM 822 | Investment Analysis & Capital Market Theory | 3 | Core |
| BUAM 824 | Advanced Research Methodology | 3 | Core |
| BUAM 826 | Managerial Accounting | 3 | Core |
| BUAM 882 | M.Sc. Seminar II | 1/Semester | Core |
| BUAM 892 | Research/Thesis II | 4/Semester | Core |
| | | | |
| **Electives** | | | |
| BUAM 828 | Financial Management | 3 | Elective |

| | | | |
|---|---|---|---|
| BUAM 830 | International Marketing | 3 | Elective |
| BUAM 832 | Bank Lending & Credit Administration | 3 | Elective |
| BUAM 834 | Human Resources Management | 3 | Elective |
| BUAM 836 | Operations Research | 3 | Elective |
| BUAM 838 | Marketing Theory | 3 | Elective |
| BUAM 840 | Advanced Finance Theory | 3 | Elective |
| BUAM 842 | Philosophy and Epistemology in Mgt | 3 | Elective |
| BUAM 844 | Bank Management | 3 | Elective |

**Third Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 883 | M.Sc. Seminar III | 1/Semester | Core |
| BUAM 893 | Research/Thesis II | 4/Semester | Core |

**Fourth Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 884 | M.Sc. Seminar IV | 1/Semester | Core |
| BUAM 894 | Research/Thesis IV | 4/Semester | Core |

### 1.2.6 M.Phil. (Business Administration)

*Admission Requirements:*

c) Candidates with a good MBA degree from Ahmadu Bello University or any recognized University are admissible into the M. Phil programme.

d) Candidates with a good M. Sc. Degree in Economics, Accounting & Finance from Ahmadu Bello University or any recognized university are admissible into M.Phil. programme, but such candidates may be required to take some pre-requisite courses at the MBA level.

Students of the programme are required to complete a minimum of two (2) semesters and maximum of four (4) semesters before being examined for the degree.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 843 | Phil. and Epistemology in Management. Research | 3 | Core |
| BUAM 845 | Advanced Research Methodology | 3 | Core |
| BUAM 881 | M. Phil. Seminar I | 1/Semester | Core |
| BUAM 891 | Research/Thesis I | 4/Semester | Core |
| And any one of the following **Elective Courses** | | | |
| **Course Code** | **Course Title** | **Credit Unit** | **Core/elective** |
| BUAM 847 | Advanced Economic Analysis | 3 | Elective |
| BUAM 849 | Advanced Theory of Behavioral Sciences | 3 | Elective |
| BUAM 851 | Advanced Marketing Theories | 3 | Elective |
| BUAM 853 | Advanced Finance Theories | 3 | Elective |

**Second Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 882 | M. Phil. Seminar II | 1/Semester | Core |
| BUAM 892 | Research/Thesis II | 4/Semester | Core |

**Third Semester**

| Course Code | Course Title | Credit Unit | Core/elective |
|---|---|---|---|
| BUAM 883 | M. Phil. Seminar III | 1/Semester | Core |
| BUAM 893 | Research/Thesis III | 4/Semester | Core |

### 1.2.7 PhD (Business Administration)

*Admission Requirements:*

**a)** Candidates with good M.Sc. degree in Business Administration/Management (Minimum. CGPA 3.5) from Ahmadu Bello University or any recognized University are admissible into the PhD programme.

**b)** However, candidates with Master's degree in Business Administration (MBA) are also admissible into the programme but would be expected to first complete the requirements of the M.Phil. Business Administration Programme provided they also satisfy the admission requirements of the M.Phil. Business Administration Programme.

*Courses Structure*

**First Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 901 | Management Thought & Philosophy | Core | 3 |
| BUAD 903 | Advanced Research Methodology | Core | 3 |
| BUAD 905 | Advanced Quantitative Analysis | Core | 3 |
| BUAD 941 | Empirical Investigations in Finance | Elective | 3 |
| BUAD 911 | Theory & Management of Change | Elective | 3 |
| BUAD 921 | Advanced Marketing Theories | Elective | 3 |
| BUAD 981 | PhD Seminar I | Core | 1 |
| BUAD 991 | Research/Dissertation I | Core | 6 |

**Second Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 902 | Seminar in Strategic Management & Entrepreneurship | Core | 3 |
| BUAD 904 | Seminar in Leadership Issues and Challenges | Core | 3 |
| BUAD 906 | Globalization and Theory of Business | Core | 3 |
| BUAD 942 | Multinational Enterprise & Theories of International Finance | Elective | 3 |
| BUAD 912 | Seminar in Public Enterprises Management | Elective | 3 |
| BUAD 922 | Development of Marketing Thought & Theory | Elective | 3 |
| BUAD 982 | PhD Seminar II | Core | 1 |
| BUAD 992 | Research/Dissertation II | Core | 6 |

**Third Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 983 | PhD Seminar III | Core | 1 |
| BUAD 993 | Research/Dissertation III | Core | 6 |

**Fourth Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 984 | PhD Seminar IV | Core | 1 |
| BUAD 994 | Research/Dissertation IV | Core | 6 |

**Fifth Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 985 | PhD Seminar V | Core | 1 |
| BUAD 995 | Research/Dissertation V | Core | 6 |

**Sixth Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 986 | PhD Seminar VI | Core | 1 |
| BUAD 996 | Research/Dissertation VI | Core | 6 |

**Seventh Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 987 | PhD Seminar VII | Core | 1 |
| BUAD 997 | Research/Dissertation VII | Core | 6 |

**Eight Semester**

| Course Code | Course Title | Status | Credit unit |
|---|---|---|---|
| BUAD 988 | PhD Seminar VIII | Core | 1 |

| | | | |
|---|---|---|---|
| BUAD 998 | Research/Dissertation VIII | Core | 6 |

| **Ninth Semester** | | | |
|---|---|---|---|
| **Course Code** | **Course Title** | **Status** | **Credit unit** |
| BUAD 989 | PhD Seminar IX | Core | 1 |
| BUAD 999 | Research/Dissertation IX | Core | 6 |
| **Tenth Semester** | | | |
| **Course Code** | **Course Title** | **Status** | **Credit unit** |
| BUAD 980 | PhD Seminar X | Core | 1 |
| BUAD 990 | Research/Dissertation X | Core | 6 |

## 1.3 DEPARTMENT OF LOCAL GOVERNMENT AND DEVELOPMENT STUDIES

### 1.3.1 Post-Graduate Diploma in Local Government (Full Time)

*Admission Requirements.*

Candidates to be considered for admission into the Full-time PGDLG must possess the followingqualification.

A good honours degree in the Social Sciences and Humanities from Ahmadu Bello University or any recognized University (with third Class grade).

### 1.3.2 Post-Graduate Diploma in Local Government (Part-Time)

*Admission Requirements.*

Candidates for the programme must possess any of the following qualifications:

a. First Degree (minimum of Third Class) in Social Sciences and Humanities.
b. Advanced Diploma in Local Government from Ahmadu Bello University only.
c. Higher National Diploma in Local Government from Kaduna Polytechnic only.

*Course Structure*

**PGDLG (Full-Time)**

**Year I: 1st Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Core** | | |
| PGDLG 701 | Administrative Theory | 2 |
| PGDLG 703 | Comparative Local Government | 2 |
| PGDLG 705 | Elements of Local Government Finance | 2 |
| PGDLG 707 | Research Methodology | 2 |
| PGDLG 709 | Administrative Law | 2 |
| PGDLG 781 | Seminar 1 | 1 |
| PGDLG 791 | Research/Project 1 | 3 |
| **Electives** | | |
| PGDLG 711 | Inter Governmental Relation | 2 |
| PGDLG 709 | Nigerian Economy | 2 |
| **2nd Semester** | | |
| **Core** | | |
| PGDLG 702 | Nigerian Local Government | 2 |
| PGDLG 704 | Techniques of Report Writing | 2 |
| PGDLG 706 | Local Government Personnel Mgt | 2 |
| PGDLG 708 | Public Management Theory | 2 |
| PGDLG 710 | Administrative Law | 2 |
| PGDLG 782 | Seminar II | 1 |
| PGDLG 792 | Research/Project 113 | |
| **Electives** | | |
| PGDLG 712 | Urban & Rural Development | 2 |
| PGDLG 714 | Nigerian Government & Policies | 2 |

c) Core Course for Students Specialising in Finance & Accounting

**Year 2: 1st Semester**

| | | |
|---|---|---|
| **Core** | | |
| DLGS 711 | Advanced Local government Fin. & Mgt | 2 |
| DLGS 713 | Advanced Auditing & Investigation | 2 |
| DLGS 715 | Research Methodology | 2 |
| PGDLG 783 | Seminar III | 1 |
| PGDLG 793 | Research/Project III | 3 |
| **Electives** | | |
| DLGS 717 | Information Data Management | 2 |
| DLGS 717 | Local Government Personnel Mgt. | 2 |

| | | |
|---|---|---|
| **Specialization in Finance Administration** | | |
| **Core** | | |
| DLGS 718 | Computer Application | 2 |
| DLGS 720 | Statistical Methods | 2 |
| DLGS 714 | Policy Implementation & Evaluation | 2 |
| **Electives** | | |
| DLGS 716 | Development Finance | 2 |
| DLGS 712 | Advanced Local Government Account. | 2 |

| | | |
|---|---|---|
| **1st Semester** | | |
| **Core** | | |
| DLGS 701 | Advanced Admin. theory | 2 |
| DLGS 704 | Public Personnel Mgt. | 2 |
| DLGS 706 | Nigerian Local Govt. Admin. | 2 |
| **Electives** | | |
| DLGS 705 | Public Policy Analysis | 2 |
| DLGS 709 | Development Administration | 2 |
| DLGS 703 | Comparative Local Government. | 2 |
| **2nd Semester** | | |
| DLGS 707 | Public Finance Mgt. | 2 |
| DLGS 702 | Planning & Project Evaluation . | 2 |
| DLGS 708 | Population & Development. | 2 |
| DLGS 710 | Rural & Urban Development | 2 |

| | | |
|---|---|---|
| **Specialization in Rural & Urban Development** | | |
| **First Semester: Core** | | |
| DLGS 715 | Research Methodology | 2 |
| DLGS 721 | Rural & Urban Devpt. Theory . | 2 |
| DLGS 723 | Municipal Administration | 2 |
| **Electives** | | |
| DLGS 727 | Health & Social Welfare Admin. | 2 |
| DLGS 728 | Environmental Devpt. & Admin. . | 2 |

| | | |
|---|---|---|
| **2nd Semester** | | |
| **Core** | | |
| DLGS 722 | Elements of Devpt. Planning | 2 |
| DLGS 724 | Advanced Regional & Urban Theory . | 2 |
| DLGS 726 | Local Govt. & Development | 2 |
| **Electives** | | |
| DLGS 728 | Intergovernmental Relations. | 2 |

| | | | |
|---|---|---|---|
| DLGS 730 | Women in Development | . | 2 |

### 1.3.3 Masters of Public Administration (Local Government)

*Admission Requirements*

- First Degree with a minimum of Second Class Lower Division in Public Administration, Business Administration or any Social sciences Course.
- Post-graduate Diploma in Local Government or Public Administration (PGDLG or PGDPA)

*Course Structure*

**Year 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester** | | |
| LGDS 801 | Comparative Local Government | 3 |
| LGDS 803 | Policy Analysis | 3 |
| LGDS 805 | Organizational Theory | 3 |
| LGDS 807 | Rural and Urban Development | 3 |
| LGDS 881 | Seminar 1 | 1Cu/Semester |
| LGDS 891 | Research/Project I | 3Cu/Semester |
| **Electives** | | |
| LGDS 809 | Introduction to Planning | 3 |
| LGDS 811 | Development Administration | 3 |
| **Second Semester** | | |
| LGDS 802 | Nigerian Local Government | 3 |
| LGDS 804 | Financial Management in Local Government | 3 |
| LGDS 806 | Personnel Management in Local Government | 3 |
| LGDS 808 | Rural and Urban Development | 3 |
| LGDS 882 | Seminar II | 1 |
| LGDS 892 | Research/Project II | 3/Semester |
| **Electives** | | |
| LGDS 810 | Social Service Administration | 3 |
| LGDS 811 | Administrative Law | 3 |
| **Third Semester** | | |
| LGDS 881 | Seminar 1II | 1Cu/Semester |
| LGDS 891 | Research/Project III | 3Cu/Semester |
| **Fourth Semester** | | |
| LGDS 882 | Seminar IV | 1 |
| LGDS 892 | Research/Project IV | 3/Semester |

### 1.3.4 Masters in Policy and Development Studies

*Admission Requirements:*

a. Five O' Level requirements with credit in English Language and at least a Pass in Mathematics
b. At least a Second Class honors degree in Local Government and Development Studies, or from the Social Sciences, Public Administration, Management Sciences and the Sciences.
c. A third Class honors degree in Local Government and Development Studies (ABU Zaria together with a Postgraduate Diploma.
d. Post graduate Diploma in the Management Sciences, Public Administration and Social Sciences are eligible for admission.

*Graduation Requirements*

The award of Master's degree in Policy and Development Studies shall be conditional upon successful completion of the course work and writing an acceptable project.

Note (a) At the completion of each semester of course work, Masters Candidates shall be required to take prescribed examinations comprising at least two to three hour paper in each of the courses registered for.

(b) A student of the Masters programme is required to earn a minimum of 28 credit units from the course work, plus a research project of 8 credit units bringing the total to 36 credit units altogether.

*Course Structure*

**Masters in Policy and Development Studies (MPDS) Part Time**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 801 | Public Policy | 2 |
| LGDS 803 | Theories and Practice of Management | 2 |
| LGDS 805 | Research Methodology | 2 |
| LGDS 807 | Nigerian Government and Administration | 2 |
| LGDS 809 | Nigerian Economy | 2 |
| LGDS 881 | Seminar I | 1 |
| LGDS 891 | Project/Research I | 3 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 802 | National Plans and Sectoral Policies | 2 |
| LGDS 804 | Development Economics & Finance | 2 |
| LGDS 806 | Development and Under Development | 2 |
| LGDS 808 | Conflict Management | 2 |
| LGDS 810 | Human Resource Management | 2 |
| LGDS 882 | Seminar II | 1 |
| LGDS 892 | Project/Research II | 3 |

**Third Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 811 | Participatory Development Methods | 2 |
| LGDS 813 | International Donor Programmes | 2 |
| LGDS 815 | Decentralization and Development | 2 |
| LGDS 817 | Poverty and Governance | 2 |
| LGDS 819 | Gender and Vulnerability | 2 |
| LGDS 883 | Seminar III | 1 |
| LGDS 893 | Project/Research III | 3 |

**Fourth Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 812 | Contemporary Issues in Development | 2 |
| LGDS 814 | Sustainable Development | 2 |
| LGDS 884 | Seminar IV | 1 |
| LGDS 894 | Project/Research IV | 3 |

### 1.3.5. M.Sc. Policy and Development Studies

*Admission Requirements:*

a. Five O'level requirements with credit in English Language and at least a Pass in Mathematics
b. A Second Class Upper Division in Local Government and Development Studies, Social Sciences and Public Administration from ABU, Zaria and from any other recognized University.
c. Professional Masters (MPA, MBA, MA etc.) from relevant disciplines
d. Holders of MPA Local Government & Masters in Policy and Development Studies
e. Second class upper degree in relevant areas in the Sciences.

*Graduation Requirements*

The award of M.Sc. in Policy and Development Studies shall be conditional upon successful completion of the course work and writing an acceptable thesis.

Note (a) At the completion of each semester of course work, M.Sc. Candidates shall be required to take prescribed examinations comprising at least two to three hour paper in each of the courses registered for.

(b) A student of the M.Sc. programme is required to earn a minimum of 34 credit units from the course work plus a thesis component of 10 credit units totaling 44 credit units altogether.

*Course Structure*

**M.Sc. Policy & Development Studies (Full-Time)**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 801 | Public Policy | 3 |
| LGDS 803 | Theories and Practice of Management | 3 |
| LGDS 805 | Development and Underdevelopment | 3 |
| LGDS 807 | Research Methodology | 3 |
| LGDS 809 | Development Economics & Finance | 3 |
| LGDS 811 | Political and Administrative Reforms | 2 |
| LGDS 817 | Economic Reforms | 2 |
| LGDS 881 | Seminar I | 1 |
| LGDS 891 | Thesis/Research I | 4 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 802 | Participatory Development Methodologies | 3 |
| LGDS 804 | Decentralization and Development | 3 |
| LGDS 806 | International Donor Programmes | 3 |
| LGDS 808 | National Plan and Policies | 3 |
| LGDS 810 | Population, Environment & Development | 3 |
| LGDS 812 | Poverty & Governance | 2 |
| LGDS 814 | Gender and Vulnerability | 2 |
| LGDS 882 | Seminar II | 1 |
| LGDS 892 | Thesis/Research II | 4 |

**Third Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 801 | Public Policy | 3 |
| LGDS 803 | Theories and Practice of Management | 3 |
| LGDS 805 | Development and Underdevelopment | 3 |
| LGDS 807 | Research Methodology | 3 |
| LGDS 809 | Development Economics & Finance | 3 |
| LGDS 811 | Political and Administrative Reforms | 2 |
| LGDS 817 | Economic Reforms | 2 |
| LGDS 883 | Seminar III | 1 |
| LGDS 893 | Thesis/Research III | 4 |

**Fourth Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 802 | Participatory Development Methodologies | 3 |
| LGDS 804 | Decentralization and Development | 3 |
| LGDS 806 | International Donor Programmes | 3 |
| LGDS 808 | National Plan and Policies | 3 |
| LGDS 810 | Population, Environment & Development | 3 |
| LGDS 812 | Poverty & Governance | 2 |
| LGDS 814 | Gender and Vulnerability | 2 |
| LGDS 884 | Seminar IV | 1 |
| LGDS 894 | Thesis/Research IV | 4 |

### 1.3.6 M.Phil. Policy and Development Studies

*Admission Requirements*

Candidate to be considered for admission into the M.Phil programme must possess the following qualifications:
A master degree in Local Government and Development Studies, Public Administration, Management, Social Sciences, Humanities and the Sciences from Ahmadu Bello University or any recognized University.
Students admitted into the programme are required to complete a minimum of two (2) semesters and a maximum of three (3) semesters before externally defending a thesis.

*Graduation Requirement*

A student on the M.Phil. programme is required to earn a minimum of twelve (12) credit units from the course work.

The award of the M. Phil (Local Government) degree is conditional upon passing the prescribed courses and writing an acceptable thesis.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 825 | Philosophy & Epistemology of Development | 3 |
| LGDS 827 | Policy Analysis | 3 |
| LGDS 829 | Research Methodology | 3 |
| LGDS 831 | Decentralisation and Development | 3 |
| LGDS 885 | Seminar | 1/Semester |
| LGDS 895 | Thesis/Research | 4 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 886 | Seminar | 1/Semester |
| LGDS 896 | Thesis/Research | 4 |

**Second Semester**

Students are required to present at least 2 seminar papers on topic within their areas of specialization. In addition, students shall complete and submit an acceptable Thesis for external examination and oral defence.

### 1.3.7 Ph.D. Local Government Administration

*Admission Requirements:*

- M.Sc. Policy and Development Studies.
- M.Sc. Public Administration;
- M.Phil. Public Administration and Local Government;
- M.Sc. Political Science, Economics, Sociology and Public Administration;
- Master Degree in any other Social Science acceptable to the Post- graduate School of Ahmadu Bello University, Zaria.

*Course structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LGDS 901 | Policy Analysis | 3 |
| LGDS 903 | Advanced Research Method; | 3 |
| LGDS 905 | Community Power Structures; | 3 |
| LGDS 981 | Seminar | 1 |
| LGDS 991 | Research/Dissertation | 6 |
| **Elective Courses** | | |
| LGDS 907 | Personnel Management in Local Government | 3 |
| LGDS 909 | Financial Management in Local Government | 3 |

**Second Semester**

| | | |
|---|---|---|
| LGDS 902 | Advanced Organisational Theory | 3 |
| LGDS 904 | Data Presentation and Analysis | 3 |
| LGDS 906 | Nigeria and Comparative Local Government | 3 |
| LGDS 981 | Seminar | 1 |
| LGDS 991 | Research/Dissertation | 6 |

**Elective Courses**

| | | |
|---|---|---|
| LGDS 908 | Rural and Urban Governance | 3 |
| LGDS 910 | Contemporary Issues in Development | 3 |

**3rd, 4th, 5th, 6th Semesters**

| | | |
|---|---|---|
| LGDS 983, 984,985, 986 | Seminar | 1/Semester |
| LGDS 993, 994,995,996 | Research/Dissertation | 6/Semester |

## 1.4 DEPARTMENT OF PUBLIC ADMINISTRATION

Postgraduate Programmes in the Department
The programmes include:

i. Postgraduate Diploma in Public Administration (PGDPA) (Part-Time)
ii. Postgraduate Diploma in Human Capital Development (PGDHCD)
iii. Master of Public Administration (MPA) (Full-Time and Part-Time)
iv. M.Sc. Public Administration
v. M.Phil. Public Administration
vi. PhD Public Administration

### 1.4.1 Postgraduate Diploma in Public Administration (PGDPA) Week-End Programme

*Admission Requirement*

- A minimum of third Class degree from ABU or any other recognized university.
- HND with a minimum of lower credit.
- Advanced Diploma in Public Administration (ADPA) from ABU with minimum of three years post-graduation experience.
- Five O' Level credits one of which must be English Language

*Graduation Requirement*

i. All candidates are expected to earn a minimum of twenty eight credit units in the coursework
ii. All candidates are required to write an acceptable project on a major problem area in Public Administration.

*Course Structure*

| **First Semester** | | | |
|---|---|---|---|
| **S/N** | **Course Code** | **Course Title** | **Credit Units** |
| 1. | PADM701 | Theory of administration | 2 |
| 2. | PADM703 | Nigerian Economy | 2 |
| 3. | PADM705 | Research Methods | 2 |
| 4. | PADM707 | Public Policy Analysis | 2 |
| 5. | PADM709 | Public Finance | 2 |
| 6. | PADM781 | Seminar | 1 |
| 7. | PADM791 | Research Project | 3 |
| **Electives (Choose One)** | | | |
| 8. | PADM711 | Public Enterprises Management | 2 |
| 9. | PADM713 | Social Welfare Administration | 2 |
| **TOTAL** | | | **15** |

| **Second Semester** | | | |
|---|---|---|---|
| **S/N** | **Course Code** | **Course Title** | **Credit Unit** |

| | | | |
|---|---|---|---|
| 1. | PADM702 | Development Administration | 2 |
| 2. | PADM704 | Public Personnel Administration | 2 |
| 3. | PADM706 | Project Management | 2 |
| 4. | PADM708 | Nigerian Government and Administration | 2 |
| 5. | PADM710 | Local Government Administration | 2 |
| 6. | PADM782 | Seminar | 1 |
| 7. | PADM792 | Research Project | 3 |
| **Electives (Choose One)** | | | |
| 8. | PADM712 | Rural and Community Development | 2 |
| 9. | PADM714 | International Relations | 2 |
| **TOTAL** | | | **15** |

### 1.4.2 Postgraduate Diploma in Human Capital Development (PGDHCD)

*Admission Requirement*

Practicing and Non-practicing human capital managers with minimum qualification of B.Sc. /B.A or HND or ABU ADPA (two years post-graduation experience). '0' level requirement – candidates must have a minimum of five credits which must include English Language.

*Graduation Requirement*

i. All candidates are expected to earn a minimum of twenty six credit units in the coursework
ii. All candidates are required to write an acceptable project on a major problem area in Public Administration.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PADM715 | Leadership Role in Work Organisation | 3 |
| PADM717 | Human Capital Procurement and Placement Strategy | 3 |
| PADM719 | Human Capital Training Development | 2 |
| PADM721 | Human Capital Accounting and Utilization | 2 |
| PADM723 | Industrial Psychology (Elective A) | 2 |
| PADM791 | Research/Project I | 3 |
| | | |
| **Second Semester** | | |
| PADM716 | Maintenance and Welfare Service Management | 3 |
| PADM718 | Work Environment and Performance Management | 3 |
| PADM720 | Industrial Relations and Conflicts Management | 2 |
| PADM722 | Research Methodology | 3 |
| PADM724 | Labour Law | 3 |
| PADM792 | Research/Project II | 3 |
| | | |

### 1.4.3 Master in Public Administration (Regular)

*Admission Requirements:*

i. First degree in Public Administration, Political Science, Local Government and Development Studies, Economics, Sociology or History with a minimum of 2.2 or third class degree with five (5) years post-graduation experience.
ii. Any First degree with minimum of 2.2 or HND with minimum of Merit grade plus a Postgraduate Diploma in Public Administration (PGDPA) from ABU.
iii. Five O' Level credits one of which must be English Language.

*Graduation Requirements:*

i. All candidates are expected to earn a minimum of thirty-six credit units in the coursework
ii. All candidates are required to write an acceptable project on a major problem area in Public Administration.

*Course Structure*

**First Semester (First Year)**

| S/N | Course Code | Course Title | Credit Unit |
|---|---|---|---|
| 1. | PADM801 | Organisational Theory & Public Administration | 3 |
| 2. | PADM803 | Research Methods | 3 |
| 3. | PADM805 | Public Policy Analysis | 3 |
| 4. | PADM809 | Public Enterprise Management | 3 |

| | | | |
|---|---|---|---|
| 5. | PADM817 | Conflict Management | 3 |
| 6. | PADM881 | Seminar I | 1 |
| 7. | PADM891 | Research/Project I | 3 |
| | **ELECTIVES** | | |
| 8. | PADM811 | Project Management | 3 |
| 9. | PADM813 | Rural and Urban Development | 3 |
| | | **TOTAL** | **21** |
| **Second Semester** | | | |
| 1. | PADM802 | Nigerian Government & Administration | 3 |
| 2. | PADM804 | Advanced Descriptive Statistics | 3 |
| 3. | PADM806 | Public Personnel Management | 3 |
| 4. | PADM808 | Public Financial Management | 3 |
| 5. | PADM810 | Development Administration | 3 |
| 6. | PADM882 | Seminar II | 1 |
| 7. | PADM892 | Research/Project II | 3 |
| | **ELECTIVES** | | |
| 8. | PADM812 | Comparative Local Government | 3 |
| 9. | PADM814 | Administrative Law | 3 |
| | | **TOTAL** | **21** |

**1.4.4 Master in Public Administration (Weekend Programme)**

*Admission Requirements:*

i. First degree in Public Administration, Political Science, Local Government and Development Studies, Science, Economics, Sociology or History with a minimum of 2.2 or third class degree with five (5) years post-graduation experience.

ii. Any First degree with minimum of 2.2 or HND with minimum of Merit grade plus a Postgraduate Diploma in Public Administration (PGDPA) from ABU.

iii. Five O' Level credits one of which one must be English Language

*Graduation Requirements:*

i. All candidates are expected to earn a minimum of thirty-six credit units in the coursework

ii. All candidates are required to write an acceptable project on a major problem area in Public Administration.

*Course Structure*

**First Semester (First Year)**

| S/N | Course Code | Course Title | Credit Unit |
|---|---|---|---|
| 1. | PADM801 | Organisational Theory & Public Administration | 3 |
| 2. | PADM803 | Research Methods | 3 |
| 3. | PADM805 | Public Policy Analysis | 3 |
| 4. | PADM809 | Public Enterprise Management | 3 |
| 5. | PADM817 | Conflict Management | 3 |
| 6. | PADM881 | Seminar I | 1 |
| 7. | PADM891 | Research/Project I | 3 |
| | **ELECTIVES** | | |
| 8. | PADM811 | Project Management | 3 |
| 9. | PADM813 | Rural and Urban Development | 3 |
| | | **TOTAL** | **21** |
| **Second Semester** | | | |
| 1. | PADM802 | Nigerian Government & Administration | 3 |
| 2. | PADM804 | Advanced Descriptive Statistics | 3 |
| 3. | PADM806 | Public Personnel Management | 3 |
| 4. | PADM808 | Public Financial Management | 3 |
| 5. | PADM810 | Development Administration | 3 |
| 6. | PADM882 | Seminar II | 1 |
| 7. | PADM892 | Research/Project II | 3 |

| | | | |
|---|---|---|---|
| | **ELECTIVES** | | |
| 8. | PADM812 | Comparative Local Government | 3 |
| 9. | PADM814 | Administrative Law | 3 |
| | | **TOTAL** | **21** |

### 1.4.5 MSc. Public Administration

*Admission Requirements:*

i. First degree in Public Administration, Political Science or Local Government and Development Studies with a minimum of 2.1.
ii. Five O' Level credits which must include English Language, Mathematics, Government/History, and Economics

*Graduation Requirements:*

i. All candidates are expected to earn a minimum of thirty-six credit units in the coursework
ii. All candidates are required to write an acceptable thesis on a major problem area in Public Administration to be externally moderated and orally defended according to School of Postgraduate Studies regulations.

*Course Structure*

| **First Semester** | | | |
|---|---|---|---|
| **S/N** | **Course Code** | **Course Title** | **Credit Unit** |
| 1. | PADM811 | Organisational Theory & Public Management | 3 |
| 2. | PADM813 | Research Methods | 3 |
| 3. | PADM815 | Public Policy Analysis | 3 |
| 4. | PADM817 | Conflict Management | 3 |
| 5. | PADM819 | Public Enterprise Management | 3 |
| 6. | PADM881 | Seminar 1 | 1 |
| 7. | PADM891 | Research Thesis 1 | 4 |
| | **Electives (Choose One)** | | |
| 8. | PADM821 | Project Management | 3 |
| 9. | PADM823 | Urban and Rural Development | 3 |
| | | **TOTAL** | **20** |

| **Second Semester** | | | |
|---|---|---|---|
| **S/N** | **Course Code** | **Course Title** | **Credit Unit** |
| 1. | PADM812 | Nigerian Government and Administration | 3 |
| 2. | PADM814 | Advanced Analytical Statistics | 3 |
| 3. | PADM816 | Personnel Administration | 3 |
| 4. | PADM818 | Public Financial Management | 3 |
| 5. | PADM820 | Development Administration | 3 |
| 6. | PADM882 | Seminar II | 1 |
| 7. | PADM892 | Research Thesis II | 4 |
| | **Electives (Choose One)** | | |
| 8. | PADM822 | Comparative Local Government | 3 |
| 9. | PADM824 | Administrative Law | 3 |
| | | **TOTAL** | **20** |

### 1.4.6 M.PHIL.Public Administration

*Admission Requirements*

i. Candidates must have first degree in Public Administration, Local Government and Development Studies, Political Science, Sociology or Economics with Second Class Lower.
ii. Must have an MPA (professional degree) with a CGPA of 3.5.
iii. Holders of MSc Public Administration, Local Government, Economics, Sociology or Political Science with CGPA below 3.5 and thesis grade of less than 60% (B) may also be admitted.
iv. Candidate must submit a proposal in area of research study and appear for an interview to assess qualification and research ability.
v. Candidate must also meet the O' Level requirements of not less than five credits, which must include English Language, Government, Economics and Mathematics.

*Graduation Requirements*

STUDENTS MUST EARN 36 CU (INCLUSIVE OF THOSE CARRIED OVER FROM THE MASTERS DEGREE); 2 SEMINAR PAPER PRESENTATIONS WITH AN EXTERNALLY DEFENDED THESIS.

### 1.4.7 Ph.D. Public Administration

*Admission Requirements:*

i. MSc Public Administration Degree from ABU or any other recognized university with a CGPA of not less than 3.5 in coursework and an average of not less than 60% (B) in Thesis.
ii. MPA defended degree from ABU or any other recognized university.
iii. M.Phil. holders with professional MPA from ABU with an average score of not less than 60% (B) in Thesis and a CGPA of not less than 4.0 (60% average).

*Graduation Requirements:*

i. Each Ph.D. student must present two (2) well researched seminar papers, Ph.D. Dissertation proposal and a dissertation before graduation.
ii. Candidates must earn at least 45 credit units (inclusive of the credits earned at Masters level).

*Course Structure*

**First Semester**

| Course Code | | Credit Unit | Status |
|---|---|---|---|
| PADM903 | Philosophy and Epistemology of Public Administration | 3 | Core Departmental |
| PADM909 | Advanced Research Methods | 3 | |
| PADM981 | Seminar 1 | 1/Semester | |
| PADM991 | Dissertation 1 | 6/Semester | |

**Second Semester**

| Course Code | | Credit Unit | Status |
|---|---|---|---|
| PADM914 | Data Management and Analysis | 3 | Core Departmental |
| PADM982 | Seminar II | 1/Semester | |
| PADM992 | Dissertation II | 6/Semester | |

**Core Specialization Courses (choose one)**

| Course Code | | Credit Unit | Status |
|---|---|---|---|
| PADM902 | Seminar in Development Administration | 3 | Core Specialization |
| PADM904 | Seminar in Public Policy Analysis | 3 | |
| PADM906 | Seminar in Public Personnel Administration | 3 | |
| PADM908 | Seminar in issues on Public Personnel Mgt. | 3 | |

**Electives (at least choose one, as guided by panel of supervisors)**

| Course Code | | Credit Unit | Status |
|---|---|---|---|
| PADM910 | Seminar in Comparative Public Administration | 2 | Electives |
| PADM912 | Seminar in Nigerian Government and Administration | 2 | |

# CHAPTER 2

# FACULTY OF AGRICULTURE

## 2.1 DEPARTMENT OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

*Postgraduate programs*

1. Postgraduate Diploma in Farm Management and Extension
2 M.Sc. Agricultural Economics
3 M.Sc. Agricultural Extension and Rural Sociology.
4 Ph.D. Agricultural Economics.
5. PhD Agricultural Extension and Rural Sociology

### 2.1.1 Postgraduate Diploma in Farm Management and Extension (PGDFME)

*Admission Requirement*

In order to qualify for admission into Postgraduate Diploma in Farm Management and Extension, candidate must (a) possess HND of not less than Upper credit, and/or.
(b) B.Sc. Degree (minimum of 3rd class) in relevant field.

*Graduation Requirement*

i. In order to qualify for the award of the Postgraduate Diploma Certificate, candidates must pass all the prescribed courses.
ii. Presents a satisfactory report of an approved research project which will be subjected to internal and external moderation.

*Courses Structure*

**Semester 1**

| Course code | Course Title | Credit Unit |
|---|---|---|
| *AERS 701 | Introduction to Micro-Economics | 3 |
| *AERS 703 | Introduction to Macro-economics | 3 |
| *AERS 705 | Introduction to Statistics | 3 |
| *AERS 711 | Principles of Rural Sociology | 3 |
| AERS 713 | Sociology of Rural Development | 3 |
| *AERS 715 | Introduction to Agric. Extension | 3 |
| AERS 716 | Agricultural Finance | 3 |
| *AERS 717 | Research Method | 3 |
| AERS 781 | Seminar 1 | 1/Semester |
| AERS 791 | Research/Project 1 | 3/Semester |

**Semester 2**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AERS 702 | Farm Management Economics | 3 |
| AERS 704 | Agricultural Marketing and Prices | 3 |
| *AERS 706 | Computer application for Data Management | 2 |
| *AERS 708 | Farm Production Economics | 3 |
| AERS 710 | Organization and Administration of Agricultural. Extension. | 3 |
| AERS 712 | Agricultural Extension. Programme Management | 3 |
| AERS 714 | Adoption and diffusion of Innovation | 3 |
| AERS 782 | Seminar 2 | 1/Semester |
| *AERS 792 | Research Project 2 | 3/Semester |

All students to take the asterisked courses as core and any 3 electives from either extension or economics. The total units to be taken by students from core, electives and project must not be less than 34 credit units.

### 2.1.2 M.Sc.Agricultural Economics:

*Admission Requirement*

i. B (Agric) or B.Sc. (Economics) or B (Agric. Tech) with a minimum of Second Class, lower division. Candidates with 3rd Class pass and an additional relevant post-graduation qualification could be admitted.
ii. Applicants would be required to pass the entrance examination to be conducted by the Department.

*Course Structure*

**(Agricultural Economics)**

| Courses Code | Course Title | Credit Units |
|---|---|---|
| **Core** | | |
| AERS 801 | Micro-Economic Analysis (FS) | 3 |
| AERS 802 | Macro-economic Analysis (FS) | 3 |
| AERS 803 | Statistics for Social Sciences (FS) | 3 |
| AERS 804 | Quantitative Techniques (SS) | 3 |
| AERS 807 | Introduction to Econometrics (FS) | 3 |
| AERS 809 | Computer application for Data Management and Analysis (SS) | 3 |
| AERS 811 | Intermediate Production Economics (FS) | 3 |
| AERS 881, 883, 885 | MSc. Seminar I, III1&V | 1/semester |
| AERS 891,893, 895 | M.Sc.Research/Thesis 1, III & V | 4/Semester |

(+) Compulsory for PhD students without Previous Mathematical Economics
(*) Core for PhD candidates.

**Supporting Courses**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AERS 810 | Advanced Farm Management (SS) | 2 |
| AERS 805 | Agricultural Finance (FS) | 2 |
| AERS 806 | Agricultural Project Analyses and Management (SS) | 3 |
| AERS 814 | Advanced Agricultural Marketing (FS) | 2 |
| AERS 816 | Agricultural Price Analysis (SS) | 2 |
| AERS 817 | Agribusiness Management (FS) | 2 |
| AERS 808 | Natural Resource and Environmental Economics (SS) | 3 |
| AERS 820 | International Trade (FS) | 2 |
| AERS 822 | Agric. Policies and Development Planning (SS) | 3 |
| AERS 882, 884, 886 | MSc. Seminar II, IV, VI | 1/semester |
| AERS 892,894 & 896 | M.Sc.Research/ThesisII, IV, VI | 4/Semester |

**NB:** The core courses, electives and thesis taken by students must add up to not less than 36 credit units for M.Sc. students and not less than 48 credit units for PhD students. Students will also be required to present three seminars which will be graded and must take courses related to their area of specialization.

### 2.1.3 PhD Agricultural Economics

*Admission Requirement*

M.Sc. Agricultural Economics based on course work and research thesis.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AERS 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| AERS 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |
| AERS 900(+) | Mathematical Economics (FS) | 3 |
| AERS 903(*) | Applied Econometrics (FS) | 3 |
| AERS 901 | Research Methodology (SS) | 4 |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AERS 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| AERS 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

### 2.1.5 M.Sc. Agricultural Extension and Rural Sociology:

At present, the following areas of specialization are emphasized viz.:

1. Agricultural Production Economics and Farm Management.

2. Agricultural Development and Policy.
3. Agricultural Finance and Marketing.
4. Agricultural/Rural Development.
5. Extension Organization, Administration and Supervision.
6. Programme Planning and Evaluation.

*Course Structure*

| Courses Code | Course Title | Credit Units |
|---|---|---|
| **Core** | | |
| AERS 813 | Advanced Rural Sociology (FS) | 4 |
| AERS 803 | Statistics for Social Sciences (FS) | 3 |
| AERS 825 | Structure and Dynamics of Rural Societies (FS) | 3 |
| AERS 819 | Methods of Social Research (FS) | 4 |
| AERS 827 | Rural Development: Theory and Practice (SS) | 3 |
| AERS 828 | Agricultural Extension Planning and Evaluation (FS) | 3 |
| AERS 829 | Communications and Extension Methods (FS) | 3 |
| AERS 809 | Computer Application for Data Management & Analyses (SS) | 3 |
| AERS 880-889 | M.Sc. seminars | 1/semester |
| AERS 880-880 | Research/Thesis | 4/semester |

**Supporting Courses**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AERS 812 | Sociology of Development (SS) | 2 |
| AERS 834 | Comparative Extension Systems (FS) | 2 |
| AERS 835 | Agrarian Systems and Social Movements (SS) | 2 |
| AERS 823 | Leadership and Group Dynamics (FS) | 2 |
| AERS 826 | Technological Change in Rural Societies (SS) | 2 |
| AERS 904 | Comparative Rural Social System (SS) | 3 |
| AERS 824 | Gender and Youth Development (SS) | 3 |
| AERS 888 | M.Sc.Research/Thesis | 4/Semester |

PhD Courses are strictly for PhD students only.

**NB:** The core courses, electives and thesis taken must add up to not less than 36 credit units for M.Sc. and not less than 48 credit units for PhD candidate. Students will also be required to present three seminars which will be graded and must take courses related to their area of specialization.

### 2.1.5 PhD Agricultural Extension and Rural Sociology

*Admission Requirement*

M.Sc. Rural Sociology, or M.Sc. Agricultural Extension based on course work and research thesis.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AERS 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| AERS 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AERS 904 | Comparative Rural Social Systems | 3 |
| AERS 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| AERS 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

## 2.2 DEPARTMENT OF AGRONOMY

### 2.2.1 Postgraduate Diploma in Crop Production and Management

*Admission Requirements*

1. A prospective candidate should have a credit pass in English, Mathematics, Chemistry, plus any two science subject from Biology, Chemistry, Physics, Geography, Agricultural Science etc.
2. A Lowe Credit grade at Higher National Diploma.
3. Degrees in related disciplines in the Sciences (B.Sc. Agric. Ed, B.Sc. Biology or Botany) with a minimum of a 2nd Class lower.
4. Holders of 3rd Class degree in agriculture.

*Graduation requirements*

Courses: A pass grade in 12 semester credit units of compulsory courses, a minimum of 6 credit hours of electives/optional courses and minimum of 2 credit unit of seminar.

Research: The candidate should complete 4 credit units of research satisfactorily and submit a final report of research and present a seminar on the research project. The candidates can choose their research projects in the following areas: a) Data analysis. b). Field and Horticultural crops production; c). Irrigation agronomy and d). Weed Science.

*Course Structure for PGDCP*

**Year 1: Semester 1**

| Course code | Course Title | Credit unit |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| AGRN 701 | Irrigation Agronomy | 2 |
| AGRN 703 | Biostatistical Methods & Experimental Design | 2 |
| AGRN 705 | Crop Physiology & Ecology | 2 |
| AGRN 707 | Field Crop Fertilisation | 2 |
| AGRN 715 | Principles and Practices of Crop Production | 2 |
| AGRN 781, 783 | Seminar | 1/Semester |
| AGRN 791, 793 | Agronomy Research/Project | 3/Semester |
| **Electives** | | |
| AGRN 709 | Ornamental Horticulture & Landscaping | 2 |
| AGRN 711 | Crop Production(1) Cereals/Legumes | 2 |
| AGRN 713 | Farming Systems | 2 |

**Semester 2**

| Course code | Course Title | Credit unit |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| AGRN 702 | Weed Control | 3 |
| AGRN 708 | Pasture Agronomy & Fodder Crops | 3 |
| AGRN 782, 784 | Seminar | 1/Semester |
| AGRN 792, 794 | Agronomy Research/Project | 3/Semester |
| **Electives** | | |
| AGRN 704 | Crop Production V: Commercial Plantation Crops | 2 |
| AGRN 710 | Crop Production III Root Tubers | 2 |
| AGRN 712 | Crop Production II Sugars and Oil seed | 2 |
| AGRN 714 | Crop Production IV Fruits & Vegetables | 2 |

### 2.2.2 MSc. Agronomy

*Areas of Specialisation*

1. Weed Science
2. Irrigation Agronomy
3. Horticulture
4. Field Crop Production
5. Crop Physiology
6. Farming Systems

*Admission Requirements*

1. The candidate who is seeking for admission into Postgraduate M.Sc. course in Agronomy must have a B.Sc. (Agric) or Bachelor of Agric (B. Agric) or (B. Sc. Botany) degree with a minimum of second class lower (2.2) from any reputable and well recognised University in and outside Nigeria.
2. HND holders with minimum Upper credit plus relevant PGD
3. Bachelor's degree in Agriculture or related discipline with a minimum of 3rd class + PGD

In addition to the entry requirements indicated above, the candidate seeking for M.Sc. and Ph.D. admission must have taken the mandatory core courses in Bachelor degree and M.Sc. degree courses, respectively and must have passed all the core courses together with other relevant courses offered by the student.

*Graduation requirements*
The Master of Science programme (M.Sc.) shall consist of a course work component and a research component with thesis. The duration of the M.Sc. programme shall not be less than 18 months and normally not more than 36 months. To graduate, a candidate is required to complete a minimum of 30 semester credit hours in both major and supporting fields excluding research. A candidate shall normally carry 15 to 20 credit hours per semester. The following courses are presently offered in the Department of Agronomy for M. Sc degree.

*M.Sc. Course Structure*
**1.Field Crop Production Option:**
**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 801 | Advanced Irrigation Agronomy | 3 |
| AGRN 803 | Biostatistical Methods | 3 |
| AGRN 805 | Crop Physiology and Ecology | 3 |
| AGRN 807 | Principles of fertilizer Use | 2 |
| AGRN 881,883 | Agronomy Seminar | 1 CU/Semester |
| AGRN 891,893 | Agronomy Research (Thesis) | 4 CU/Semester |
| **Electives:** | | |
| *AGRN 811 | Advanced Crop Production 1:Cereals, Legumes and Oil Seeds | 2 |
| *AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 827 | Agriculture and Environment | 2 |
| AGRN 817 | Farming Systems | 3 |
| SOSC 803 | Soil and Plant Analysis | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 802 | Weed Biology, Ecology and Control | 3 |
| AGRN 804 | Experimental Design | 3 |
| AGRN 806 | Computer, Data Management and Analysis | 3 |
| AGRN 882,884, | Agronomy Seminar | 1 CU/Semester |
| AGRN 892,894 | Agronomy Research (Thesis) | 4 CU/Semester |
| **Electives:** | | |
| AGRN 816 | Crop Ecology | 2 |
| AGRN 818 | Advanced Crop Management and Sustainable Agriculture | 2 |
| AGRN 820 | Pasture and Fodder Production | 2 |
| AGRN 824 | Scientific Writing and Presentation | 2 |
| AGRN 826 | Global Change and Agrosystem Analysis | 2 |
| SOSC 850 | Agricultural Climatology | 3 |

- Core Electives based on Crop of research.
- Each student must earn a minimum of 32 CU.
- Students can (in consultation with the supervisors) register for any relevant elective

**2.Crop Physiology Option:**
**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 801 | Advanced Irrigation Agronomy | 3 |
| AGRN 803 | Biostatistical Methods | 3 |
| AGRN 805 | Crop Physiology and Ecology | 3 |
| AGRN 807 | Principles of fertilizer Use | 2 |
| AGRN 881,883 | Agronomy Seminar | 1 CU/Semester |
| AGRN 891,893 | Agronomy Research (Thesis) | 4 CU/Semester |
| | | |
| **Electives:** | | |
| AGRN 811 | Advanced Crop Production 1:Cereals, Legumes and Oil Seeds | 2 |
| AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 809 | Fruit Crop Production | 2 |
| AGRN 815 | Vegetable Crop Production | 2 |
| AGRN 823 | Post-harvest Techno. Hort. Crops | 2 |
| AGRN 825 | Herbaceous, Spices, Aromatic and Medicinal Crop Production | 3 |
| SOSC 803 | Soil and Plant Analysis | 2 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 802 | Weed Biology, Ecology and Control | 3 |
| AGRN 804 | Experimental Design | 3 |
| AGRN 806 | Computer Data Management and Analysis | 3 |
| AGRN 882,884, | Agronomy Seminar | 1 CU/Semester |
| AGRN 892,894 | Agronomy Research (Thesis) | 4 CU/Semester |
| | | |
| **Electives:** | | |
| AGRN 816 | Crop Ecology | 2 |
| AGRN 822 | Floriculture and Landscape Gardening | 2 |
| AGRN 826 | Global Change and Agrosystem Analysis | 2 |
| PLSC 818 | Advanced Stress Physiology | 3 |
| PLSC 822 | Physiology of Flowering | 1 |
| | | |

- Core Electives based on Crop of research.
- Each student must earn a minimum of 32 CU.
- Students can (in consultation with the supervisors) register for any relevant elective

**3.Horticulture Option:**
**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 801 | Advanced Irrigation Agronomy | 3 |
| AGRN 803 | Biostatistical Methods | 3 |
| AGRN 805 | Crop Physiology and Ecology | 3 |
| AGRN 807 | Principles of fertilizer Use | 3 |
| AGRN 823 | Post-harvest Techno. Hort. Crops | 2 |
| AGRN 881,883 | Agronomy Seminar | 1 CU/Semester |
| AGRN 891,893 | Agronomy Research (Thesis) | 4 CU/Semester |
| | | |
| **Electives:** | | |
| AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 809 | Fruit Crop Production | 3 |
| AGRN 815 | Vegetable Crop Production | 3 |
| AGRN 825 | Herbaceous, Spices, Aromatic and Medicinal Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 802 | Weed Biology, Ecology and Control | 3 |
| AGRN 804 | Experimental Design | 3 |
| AGRN 806 | Computer Data Management and Analysis | 3 |
| AGRN 882,884, | Agronomy Seminar | 1 CU/Semester |

| | | |
|---|---|---|
| AGRN 892,894 | Agronomy Research (Thesis) | 4 CU/Semester |
| **Electives:** | | |
| AGRN 822 | Floriculture and Landscape Gardening | 2 |
| AGRN 818 | Advanced Crop Management and Sustainable Agriculture | 2 |
| AGRN 824 | Scientific Writing and Presentation | 2 |
| AGRN 826 | Global Change and Agrosystem Analysis | 2 |
| PLSC 822 | Physiology of Flowering | 2 |

- Core Electives based on Crop of research.
- Each student must earn a minimum of 32 CU.
- Students can (in consultation with the supervisors) register for any relevant elective

**4.Weed Science Option:**
**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 801 | Advanced Irrigation Agronomy | 3 |
| AGRN 803 | Biostatistical Methods | 3 |
| AGRN 805 | Crop Physiology and Ecology | 3 |
| AGRN 807 | Principles of fertilizer Use | 3 |
| AGRN 819 | Herbicidal Action and Residues | 2 |
| AGRN 881,883 | Agronomy Seminar | 1 CU/Semester |
| AGRN 891,893 | Agronomy Research (Thesis) | 4 CU/Semester |
| **Electives:** | | |
| AGRN 811 | Advanced Crop Production 1:Cereals, Legumes and Oil Seeds | 2 |
| AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 809 | Fruit Crop Production | 3 |
| AGRN 815 | Vegetable Crop Production | 3 |
| AGRN 817 | Farming Systems | 3 |
| AGRN 823 | Post-harvest Techno. Hort. Crops | 2 |
| AGRN 825 | Herbaceous, Spices, Aromatic and Medicinal Crop Production | 2 |
| AGRN 827 | Agriculture and Environment | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 802 | Weed Biology Ecology and Control | 3 |
| AGRN 804 | Experimental Design | 3 |
| AGRN 826 | Principles of Fertilizer Use | 3 |
| AGRN 882,884, | Agronomy Seminar | 1 CU/Semester |
| AGRN 892,894 | Agronomy Research (Thesis) | 4 CU/Semester |
| **Electives:** | | |
| AGRN 822 | Floriculture and Landscape Gardening | 2 |
| AGRN 818 | Advanced Crop Management and Sustainable Agriculture | 2 |
| AGRN 826 | Global Change and Agrosystem Analysis | 2 |
| AGRN 820 | Pasture and Fodder Production | |

- Core Electives based on Crop of research.
- Each student must earn a minimum of 32 CU.
- Students can (in consultation with the supervisors) register for any relevant elective

**5.Irrigation Agronomy Option:**
**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 801 | Advanced Irrigation Agronomy | 2 |
| AGRN 803 | Biostatistical Methods | 3 |
| AGRN 805 | Crop Physiology and Ecology | 3 |
| AGRN 807 | Principles of fertilizer Use | 3 |

| | | |
|---|---|---|
| AGRN 881,883 | Agronomy Seminar | 1 CU/Semester |
| AGRN 891,893 | Agronomy Research (Thesis) | 4 CU/Semester |
| | | |
| **Electives:** | | |
| AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 809 | Fruit Crop Production | 3 |
| AGRN 815 | Vegetable Crop Production | 3 |
| AGRN 825 | Herbaceous, Spices, Aromatic and Medicinal Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 802 | Weed Ecology and Control | 3 |
| AGRN 804 | Experimental Design | 3 |
| AGRN 806 | Computer Data Management and Analysis | 3 |
| AGRN 882,884, | Agronomy Seminar | 1 CU/Semester |
| AGRN 892,894 | Agronomy Research (Thesis) | 4 CU/Semester |
| | | |
| **Electives:** | | |
| AGRN 811 | Advanced Crop Production 1:Cereals, Legumes and Oil Seeds | 2 |
| AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 809 | Fruit Crop Production | 3 |
| AGRN 815 | Vegetable Crop Production | 3 |
| AGRN 817 | Farming Systems | 3 |
| AGRN 823 | Post-harvest Techno. Hort. Crops | 2 |
| AGRN 825 | Herbaceous, Spices, Aromatic and Medicinal Crop Production | 2 |
| AGRN 827 | Agriculture and Environment | 3 |
| SOSC 853 | Soil-Water-Plant Relationship | 3 |
| SOSC 803 | Soil and Plant Analysis | 2 |

- Core Electives based on Crop of research.
- Each student must earn a minimum of 32 CU.
- Students can (in consultation with the supervisors) register for any relevant elective

**6.Farming Systems Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 801 | Advanced Irrigation Agronomy | 3 |
| AGRN 803 | Biostatistical Methods | 3 |
| AGRN 805 | Crop Physiology and Ecology | 3 |
| AGRN 807 | Principles of fertilizer Use | 2 |
| AGRN 817 | Farming Systems | 3 |
| AGRN 881,883 | Agronomy Seminar | 1 CU/Semester |
| AGRN 891,893 | Agronomy Research (Thesis) | 4 CU/Semester |
| | | |
| **Electives:** | | |
| AGRN 811 | Advanced Crop Production 1:Cereals, Legumes and Oil Seeds | 2 |
| AGRN 813 | Advanced Crop Production 11: Root, Tuber and Industrial Crops | 2 |
| AGRN 809 | Fruit Crop Production | 3 |
| AGRN 815 | Vegetable Crop Production | 3 |
| AGRN 823 | Post-harvest Techno. Hort. Crops | 3 |
| AGRN 825 | Herbaceous, Spices, Aromatic and Medicinal Crop Production | 2 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 802 | Weed Biology, Ecology and Control | 3 |
| AGRN 804 | Experimental Design | 3 |
| AGRN 806 | Computer Data Management and Analysis | 3 |
| AGRN 882,884, | Agronomy Seminar | 1 CU/Semester |
| | Agronomy Research (Thesis) | 4 CU/Semester |
| AGRN 892,894 | | |
| | | |
| **Electives:** | Advanced Crop Management and Sustainable Agriculture | 2 |

| | | |
|---|---|---|
| AGRN 818 | Scientific Writing and Presentation | 2 |
| AGRN 824 | Global Change and Agrosystem Analysis | 2 |
| AGRN 826 | Pasture and Fodder Production | 2 |
| AGRN 820 | | |

- Core Electives based on Crop of research.
- Each student must earn a minimum of 32 CU.
- Students can (in consultation with the supervisors) register for any relevant elective

**2.2.3 M. Phil. Agronomy**

*Admission Requirements*

1. Masters holders with a Project component
2. PhD applicants changing their field of study
3. PhD students unable to conclude their studies within the stipulated period of time
4. M.Phil./PhD candidates would automatically proceed with PhD on successful completion of M.Phil.

Course requirements shall be based on entry point and deficiency on the part of the applicant

**2.2. 4Ph.D. Agronomy**

Specialisation areas include:

1. Weed Science
2. Irrigation Agronomy
3. Crop Physiology and Ecology
4. Field Crop Management
5. Framing Systems
6. Field Crop Production

*Admission Requirements*

Any candidate seeking for admission for Ph.D. Agronomy degree must have an M.Sc. degree in Agronomy, must have completed the minimum course work with minimum credit point in his M.Sc. course work and his final M.Sc. degree total average point must also be 3.50 and above. The M.Sc. degree must be from a well-recognized and reputable university in and outside Nigeria.

*Graduation requirements*

To qualify for graduation, a candidate shall normally be required to complete a minimum of 55 semester credit hours. A course work component, if required in the programme, shall constitute not more than 15-20% of the total minimum credit hours needed for graduation, exclusive of Master's course work.

*Course Structure*

**1. Field Crop Production Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 901 | Research Methodology | 3 |
| AGRN 903 | Analysis of Crop Growth and Yield | 3 |
| AGRN 981,983,985 | Agronomy Seminar I, III, V | 1 CU/Semester |
| AGRN 991,993,995 | Agronomy Research I, III, V | 6 CU/Semester |
| **Elective** | | |
| AGRN 913 | Advances in Irrigation Agronomy | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 902 | Advances in Agronomy | 3 |
| AGRN 992, 994,996 | Agronomy Seminar II, IV, VI | 1 CU/Semester |
| AGRN 992,994,996 | Agronomy Research II, IV, VI | 6 CU/Semester |
| **Electives** | | |
| AGRN 904 | Environmental Crop Physiology | 3 |
| AGRN 906 | Advanced Field Crop Fertilization | 2 |

**2. Crop Physiology Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 901 | Research Methodology | 3 |
| AGRN 903 | Analysis of Crop Growth and Yield | 3 |
| AGRN 981,983,985 | Agronomy Seminar I, III, V | 1 CU/Semester |
| AGRN 991,993,995 | Agronomy Research I, III, V | 6 CU/Semester |
| | | |
| **Elective** | | |
| AGRN 913 | Advances in Irrigation Agronomy | 3 |
| AGRN 909 | Advanced Fruit, Crop Production | 3 |
| AGRN 911 | Advanced Vegetable Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 902 | Advances in Agronomy | 3 |
| AGRN 904 | Environmental Crop Physiology | 3 |
| AGRN 992, 994,996 | Agronomy Seminar II, IV, VI | 1 CU/Semester |
| AGRN 992,994,996 | Agronomy Research II, IV, VI | 6 CU/Semester |
| | | |
| **Electives** | | |
| AGRN 906 | Advanced Field Crop Fertilization | 2 |

**3. Horticulture Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 901 | Research Methodology | 3 |
| AGRN 903 | Analysis of Crop Growth and Yield | 3 |
| AGRN 981,983,985 | Agronomy Seminar I, III, V | 1 CU/Semester |
| AGRN 991,993,995 | Agronomy Research I, III, V | 6 CU/Semester |
| | | |
| **Elective** | | |
| AGRN 913 | Advances in Irrigation Agronomy | 3 |
| AGRN 909 | Advanced Fruit Crop Production | 3 |
| AGRN 911 | Advanced Vegetable Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 902 | Advances in Agronomy | 3 |
| AGRN 992, 994,996 | Agronomy Seminar II, IV, VI | 1 CU/Semester |
| AGRN 992,994,996 | Agronomy Research II, IV, VI | 6 CU/Semester |
| | | |
| **Electives** | | |
| AGRN 904 | Environmental Crop Physiology | 3 |
| AGRN 906 | Advanced Field Crop Fertilization | 2 |
| | | |

**4. Weed Science Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 901 | Research Methodology | 3 |
| AGRN 903 | Analysis of Crop Growth and Yield | 3 |
| AGRN 905 | Advances in Weed Science | 2 |
| AGRN 981,983,985 | Agronomy Seminar I, III, V | 1 CU/Semester |
| AGRN 991,993,995 | Agronomy Research I, III, V | 6 CU/Semester |
| | | |
| **Elective** | | |

| | | |
|---|---|---|
| AGRN 913 | Advances in Irrigation Agronomy | 3 |
| AGRN 909 | Advanced Fruit Crop Production | 3 |
| AGRN 911 | Advanced Vegetable Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 902 | Advances in Agronomy | 3 |
| AGRN 992, 994,996 | Agronomy Seminar II, IV, VI | 1 CU/Semester |
| AGRN 992,994,996 | Agronomy Research II, IV, VI | 6 CU/Semester |
| **Electives** | | |
| AGRN 904 | Environmental Crop Physiology | 3 |
| AGRN 906 | Advanced Field Crop Fertilization | 2 |

**5. Irrigation Agronomy Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 901 | Research Methodology | 3 |
| AGRN 903 | Analysis of Crop Growth and Yield | 3 |
| ARGN 913 | Advances in Irrigation Agronomy | 3 |
| AGRN 981,983,985 | Agronomy Seminar I, III, V | 1 CU/Semester |
| AGRN 991,993,995 | Agronomy Research I, III, V | 6 CU/Semester |
| **Elective** | | |
| AGRN 909 | Advanced Fruit Crop Production | 3 |
| AGRN 911 | Advanced Vegetable Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 902 | Advances in Agronomy | 3 |
| AGRN 904 | Environmental Crop Physiology | 3 |
| AGRN 992, 994,996 | Agronomy Seminar II, IV, VI | 1 CU/Semester |
| AGRN 992,994,996 | Agronomy Research II, IV, VI | 6 CU/Semester |
| **Electives** | | |
| AGRN 906 | Advanced Field Crop Fertilization | 2 |

**6. Farming Systems Option:**

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Courses** | | |
| AGRN 901 | Research Methodology | 3 |
| AGRN 903 | Analysis of Crop Growth and Yield | 3 |
| AGRN 907 | Advances in Cropping Systems | 3 |
| AGRN 981,983,985 | Agronomy Seminar I, III, V | 1 CU/Semester |
| AGRN 991,993,995 | Agronomy Research I, III, V | 6 CU/Semester |
| **Elective** | | |
| AGRN 913 | Advances in Irrigation Agronomy | 3 |
| AGRN 909 | Advanced Fruit Crop Production | 3 |
| AGRN 911 | Advanced Vegetable Crop Production | 3 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| AGRN 902 | Advances in Agronomy | 3 |
| AGRN 992, 994,996 | Agronomy Seminar II, IV, VI | 1 CU/Semester |
| AGRN 992,994,996 | Agronomy Research II, IV, VI | 6 CU/Semester |
| **Electives** | | |
| AGRN 904 | Environmental Crop Physiology | 3 |

| | | |
|---|---|---|
| AGRN 906 | Advanced Field Crop Fertilization | 2 |

## 2.3 DEPARTMENT OF ANIMAL SCIENCE

### 2.3.1 Postgraduate Diploma in Animal Production

*Admission Requirements*

To be eligible for admission into the programme, a candidate must satisfy at least one of the following requirements:

i. A minimum of three credits in relevant Science subjects at the "O" level plus credit passes in 'O' level English and Mathematics.
ii. Not less than a credit grade in HND (Agric).
iii. B.Sc. Agric or any other relevant degree with a pass or third class.
iv. At least two years Post-graduation field experience.

To qualify for graduation for Postgraduate Diploma in Animal Production, a candidate is required to get a minimum of "pass grade" in all the registered courses. In addition, the candidate should also present a seminar on the research project.

*Research/Project Area*

(a) Ruminant Nutrition & Management
(b) Monogastric Nutrition & Management
(c) Animal Breeding and Genetics,
(d) Reproductive Physiology
(e) Pasture Production /Range Management
(f) Animal Products

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ANSC 701 | Principles of Biochemistry | 3 |
| ANSC 703 | Research Methods and Computer Application | 3 |
| ANSC 705 | Anatomy and Physiology of Farm Animals | 3 |
| ANSC 707 | Animal Diseases and Parasites | 3 |
| ANSC 709 | Livestock Economics and Extension | 3 |
| ANSC 711 | Poultry Production | 3 |
| ANSC 713 | Swine Production | 3 |
| ANSC 715 | Rabbit Production | 3 |
| ANSC 717 | Sheep and Goat production | 3 |
| ANSC 719 | Cattle Production | 3 |
| ANSC 721 | Animal Genetics | 3 |
| ANSC 781 | Seminar I | 1/semester |
| ANSC 791 | Project I | 3/semester |

***Second Semester***

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ANSC 702 | Experimental Design | 3 |
| ANSC 704 | Feeds and Feeding | 3 |
| ANSC 706 | Animal Production and Public Health | 3 |
| ANSC 708 | Ruminant Nutrition | 3 |
| ANSC 710 | Monogastric Nutrition | 3 |
| ANSC 712 | Animal Products and Processing | 3 |
| ANSC 714 | Introduction to Fisheries | 3 |
| ANSC 716 | Pasture Production | 3 |
| ANSC 718 | Range Management | 3 |
| ANSC 722 | Reproductive Physiology | 3 |
| ANSC 724 | Animal Breeding | 3 |
| ANSC 782 | Seminar II | 1/semester |
| ANSC 792 | Project II | 3/semester |

### 2.3.2 M.Sc. Animal Science

*Research/Thesis Areas*

(a) Ruminant Nutrition & Management
(b) Monogastric Nutrition & Management
(c) Animal Breeding and Genetics
(d) Reproductive Physiology
(e) Pasture Production /Range Management
(f) Animal Production and Management (with emphasis on nutrition)
(g) Animal Products

*Admission Requirements*

Candidates seeking admission into the M.Sc. degree programme must satisfy at least one of the following requirements:

i. A Bachelor's degree in Agriculture or Animal Science with first or second class honours from a recognized university.
ii. HND holders with minimum Upper credit plus relevant PGD as defined in the NUC benchmark.
iii. Any other relevant qualification provided the applicant has passed the foundation courses in Agriculture or Animal Science at the undergraduate level.

*Course Structure*

**Core Courses for Students in Nutrition & Management**

| Course code | Course Title | Credit Units |
|---|---|---|
| ANSC881-899 | Seminar (1CU/Semester) | 1 |
| ANSC 891-899 | Research/Thesis (4CU/Semester) | 4 |
| *ANSC 811 | Ruminant Nutrition | 3 |
| ANSC 813 | Feed /Nutrition Laboratory | 2 |
| *ANSC 814 | Monogastric Nutrition | 3 |
| ANSC816 | Nutritional Biochemistry | 3 |
| ANSC 818 | Advanced Feeds and Feeding | 3 |
| ANSC 819 | Biostatistics | 3 |
| ANSC 820 | Experimental Designs | 3 |
| ANSC 821 | Computer and Data Analysis | 2 |
| VMPP 811 | Applied Physiology of Farm Animals | 4 |

*Depending on the area of specialization.

**Core Courses for Students in Animal Breeding and Genetics**

| Course code | Course Title | Credit Units |
|---|---|---|
| ANSC881-899 | Seminar (1CU/Semester) | 1 |
| ANSC 891-899 | Research/Thesis (4CU/Semester) | 4 |
| ANSC 802 | Animal Breeding and Genetics | 3 |
| ANSC 803 | Population Genetics | 3 |
| ANSC 804 | Quantitative Genetics | 3 |
| ANSC 815 | Advanced Reproductive Physiology | 3 |
| ANSC 818 | Advanced Feeds and Feeding | 3 |
| ANSC 819 | Biostatistics | 3 |
| ANSC 820 | Experimental Designs | 3 |
| ANSC 821 | Computer and Data Analysis | 2 |
| VMPP 811 | Applied Physiology of Farm Animals | 4 |

**Core Courses for Students in Pasture Production/Range Management**

| Course code | Course Title | Credit Units |
|---|---|---|
| ANSC881-899 | Seminar (1CU/Semester) | 1 |
| ANSC 891-899 | Research/Thesis (4CU/Semester) | 4 |
| ANSC 811 | Ruminant Nutrition | 3 |
| ANSC 812 | Pasture Production | 3 |
| ANSC 813 | Feeds/Nutrition Laboratory | 2 |
| ANSC 818 | Advanced Feeds and Feeding | 3 |
| ANSC 819 | Biostatistics | 3 |
| ANSC 820 | Experimental Designs | 3 |
| ANSC 821 | Computer and Data Analysis | 2 |
| VMPP 811 | Applied Physiology of Farm Animals | 4 |
| AGRN 805 | Crop Physiology | 3 |

| | | |
|---|---|---|
| SOSC 859 | Mineral Nutrition of Crops | 2 |

**Core Courses for Students in Animal Physiology & Reproduction**

| Course code | Course Title | Credit Units |
|---|---|---|
| ANSC881-899 | Seminar (1CU/Semester) | 1 |
| ANSC 891-899 | Research/Thesis (4CU/Semester) | 4 |
| ANSC 802 | Animal Breeding and Genetics | 3 |
| ANSC 803 | Population Genetics | 3 |
| ANSC 804 | Quantitative Genetics | 3 |
| ANSC 815 | Advanced Reproductive Physiology | 3 |
| ANSC 818 | Advanced Feeds and Feeding | 3 |
| ANSC 819 | Biostatistics | 3 |
| ANSC 820 | Experimental Designs | 3 |
| ANSC 821 | Computer and Data Analysis | 2 |
| VMPP 811 | Applied Physiology of Farm Animals | 4 |

**Core Courses for Students in Animal Products**

| Course code | Course Title | Credit Units |
|---|---|---|
| ANSC881-899 | Seminar (1CU/Semester) | 1 |
| ANSC 891-899 | Research/Thesis (4CU/Semester) | 4 |
| ANSC 822 | Abattoir, Processing Practices and Slaughter House By-products Technology | 3 |
| ANSC 823 | Fresh Meat Technology | 3 |
| ANSC 824 | Egg and Dairy Products Technology | 3 |
| ANSC 825 | Meat Processing, Packaging, Quality Control and Marketing | 2 |
| ANSC 826 | Biotechnological Techniques and Processes in Animal Science | 2 |
| ANSC 818 | Advanced Feeds and Feeding | 3 |
| ANSC 819 | Biostatistics | 3 |
| ANSC 820 | Experimental Designs | 3 |
| ANSC 821 | Computer and Data Analysis | 2 |
| VMPP 811 | Applied Physiology of Farm Animals | 4 |

### 2.3.3 PhD Animal Science

*Course Structure(Animal Production)*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| ANSC 900 | Special Problem | 1 |
| ANSC 901 | Protein metabolism | 3 |
| ANSC 903 | Mineral Nutrition | 3 |
| ANSC 941 | Bioenergetics and Environmental Physiol. | 4 |
| ANSC 981, 983, 985, 987, 989 | Seminar I, III, V, VII & IX | 1/semester |
| ANSC 991, 993, 995, 997, 999 | Research/dissertation I, III, V, VII & IX | 6cu/semester |

**Second Semester**

| | | |
|---|---|---|
| ANSC 900 | Special Problem | 1 |
| ANSC 902 | Digestive Physiology of Ruminants | 1 |
| ANSC 904 | Vitamin Nutrition | 3 |
| ANSC 906 | Energy Metabolism | 3 |
| ANSC 982, 984, 986, 988 | Seminar II, IV, VI, VIII | 1/semester |
| ANSC 992, 994, 996, 998 | Research/dissertation II, IV, VI, VIII | 6cu/semester |

## 2.4. DEPARTMENT OF CROP PROTECTION

*Admission Requirements*
To be eligible for admission into the PG programmes of the Department the general Faculty of Agriculture and School of Postgraduate Studies requirements shall apply.

*Graduation Requirements*
Students will be qualified to graduate after successful completion of prescribed course work and assigned research work.

### 2.4.1 Postgraduate Diploma in Crop Protection

*Courses Structure*
**Semester 1**

| Course code | Course Title | Credit Unit |
|---|---|---|
| CPPR 701 | Mycology and Fungal Diseases | 3 |
| CPPR 703 | Plant Bacteriology | 2 |
| CPPR 705 | Plant Nematology | 2 |
| CPPR 707 | Plant Virology | 2 |
| CPPR: 709 | Insect Taxonomy | 2 |
| CPPR 711 | Insect Ecology | 2 |
| CPPR 781 | Seminar (1/Semester) I | 1 |
| CPPR 791 | Project (3/semester) I | 3 |

**Semester 2**

| Course code | Course Title | Credit Unit |
|---|---|---|
| CPPR: 702 | Pest Management | 3 |
| CPPR 704 | Pesticides and Their Application | 2 |
| CPPR 706 | Soil-Borne Pests and Their Control | 2 |
| CPPR 708 | Post-Harvest Protection | 2 |
| CPPR 710 | Breeding For Resistance To Pests | 2 |
| CPPR 792 | Project (3/semester) II | 3 |
| CPPR 782 | Seminar (1/Semester) II | 1 |

### 2.4.2 M. Sc Crop Protection

*Admission Requirements*
To be eligible for admission into the PG programmes of the Department the general Faculty of Agriculture and School of Postgraduate Studies requirements shall apply.

*Courses Structure*
**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CPPR 801 | Insect Taxonomy | 2 |
| CPPR 803 | Mycology and Fungal Diseases | 3 |
| CPPR 805 | Plant Virology | 2 |
| CPPR 807 | Plant Bacteriology | 2 |
| CPPR 809 | Plant Nematology | 2 |
| CPPR 811 | Pesticides And Their Application | 3 |
| CPPR 813 | Pest Management | 2 |
| CPPR 815 | Epidemiology | 2 |
| CPPR 817 | Ecology and Management of Soil- and | 1 |

| | | |
|---|---|---|
| | Seed-borne Plant Pathogens | |
| AGRN 803 | Statistical Methods | 3 |
| AGRN 811 | Introduction to Computers | 2 |
| CPPR881,883 | Seminar I, III, (1 Cu/Semester) | 1 |
| CPPR 891, 893 | Research/Thesis I, III, (4CU/Semester) | 4 |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CPPR 802 | Insect Morphology and Physiology | 2 |
| CPPR 804 | Insect Ecology | 2 |
| CPPR 806 | Plant Disease Physiology | 2 |
| CPPR 808 | Pests of Crops | 2 |
| CPPR 812 | Introduction to Biotechnology in Pest Management | 1 |
| CPPR 814 | Post-Harvest and Storage Technology | 2 |
| CPPR 816 | Breeding Plants for Pests and Disease Resistance | 2 |
| AGRN 804: | Experimental Designs | 3 |
| CPPR 882,884 | Seminar II, IV,(1 Cu/Semester) | 1 |
| CPPR 882, 884 | Research/Thesis II, IV (4cu/semester) | 4 |

### 2.4.3 Doctor of Philosophy (Ph. D) in Crop Protection

Admission and graduation requirements are as specified by the School of Postgraduate Studies and Faculty of Agriculture.

*Courses Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| CPPR 901 | Applications of Biotechnology in Pest Management | 2 |
| CPPR981,983, 985, 987 | Seminar I, III, V, VII (1 Cu/Semester) | 1 |
| CPPR 991,993,995, 997 | Research/Dissertation I, III, V, VII (6cu/semester) | 6 |
| **Semester 2** | | |
| CPPR 902 | Environmental Protection and Management | 2 |
| CPPR 982,984,986, 988 | Seminar II, IV, VI, VIII (1 Cu/Semester) | 1 |
| CPPR 992,994,996, 998 | Research/DissertationII, IV, VI, VIII(6 cu/semester) | 6 |

## 2.5. DEPARTMENT OF PLANT SCIENCE

### 2.5.1 Postgraduate Diploma in Seed Production and Technology

*Admission Requirement*

Admission Requirement

1. B.Sc. in Agriculture, Botany or Biochemistry with at least a Third Class.
2. HND in Agriculture at least an Upper credit level

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PLSC 733 | Crop variety maintenance | 3 |
| PLSC 735 | Seed Processing and Storage | 2 |
| PLSC 737 | Seed Marketing and policy | 2 |
| PLSC 739 | Data Analysis and Report writing | 2 |
| PLSC 781 | Seminar (1 Cu/Semester) | 1 |
| PLSC 791 | Research/Project (3 cu/semester) | 2 |
| **Semester 2** | | |
| PLSC 732 | Basic Botany of Agric. Crops | 3 |
| PLSC 734 | Principles of Seed Production | 2 |
| PLSC 736 | Seed Testing and Quality Control | 2 |
| PLSC 738 | Seed Industry development | 2 |
| PLSC 740 | Basic Computer Application | 2 |
| PLSC 782 | Seminar (1 Cu/Semester) | 1 |
| PLSC 792 | Research/Project (3 cu/semester) | 2 |

**2.5.2 M.Sc. Crop Physiology**

*Admission Requirement*

A good University degree in Agriculture, Botany or any related field at least at the second class lower Division level.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PLSC 817 | Advanced physiology of crop growth and development | 3 |
| PLSC 819 | Physiology of crop improvement | 2 |
| PLSC 821 | Photosynthesis and Respiration | 3 |
| PLSC 825 | Physiology of Xenobites | 3 |
| PLSC 827 | Plant Ecology | 2 |
| PLSC 829 | Soiless Cultivation of Crops | 2 |
| PLSC 881 & 883 | Seminar (1 Cu/Semester) I & III | 1 |
| PLSC 891 & 893 | Research/Thesis I & III | 4 |
| **Semester 2** | | |
| PLSC 808 | Research Methods and Experimental Design | 2 |
| PLSC: 810 | Statistical Methods | 2 |
| PLSC 818 | Advanced stress physiology | 3 |
| PLSC 822 | Physiology of flowering | 2 |
| PLSC 824 | Plant Tissue Culture and Genetic Transformation | 3 |
| PLSC 826 | Environmental Biology | 2 |
| PLSC 828 | Horticultural Plant Propagation | 3 |
| PLSC 830 | Landscape Management | 3 |
| PLSC 882 & 884 | Seminar (1 Cu/Semester) II & IV | 1 |
| PLSC 892 & 894 | Research/Thesis II & IV | 4 |

**2.5.3 Ph.D. Crop Physiology,**

*Admission Requirement*

An M.Sc. degree in Plant/ Crop Physiology, Agronomy, Botany or any related subject.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PLSC 901 | Advances in crop physiology | 3 |
| PLSC 981,983, 985 | Seminar (1 Cu/Semester) | 1 |
| PLSC 991,993,995 | Research/Dissertation (6cu/Semester) | 6 |
| **Semester 2** | | |
| PLSC 902 | Radio-isotopes in Biological Research. | 2 |
| PLSC 904 | Use of computer | 2 |
| PLSC 982,984,986, 988 | Seminar (1 Cu/Semester) | 1 |
| PLSC 992,994,996,998 | Research/Thesis (6cu/semester) | 6 |

**2.5.4 M.Sc. Crop Breeding**

*Admission Requirement*

A good University degree in Agriculture, Botany or any related field at least at the second class lower Division level.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PLSC 801 | Advanced Genetics | 3 |
| PLSC 803 | Quantitative Genetics I | 2 |
| PLSC 805 | Principles of Crop Breeding | 2 |
| PLSC 807 | Method of Artificially genetic seedling | 2 |
| PLSC 809 | Breeding for Pest and Disease Resistance | 2 |
| PLSC 813 | Breeding for special crops | 2 |
| PLSC 811 | Introduction Computer | 2 |
| PLSC 831: | Molecular Techniques for Crop Improvement | 2 |

| | | |
|---|---|---|
| PLSC 881 & 883 | Seminar (1 Cu/Semester) | 1 |
| PLSC 891 & 893 | Research/Thesis | 4 |
| **Semester 2** | | |
| PLSC 804 | Quantitative Genetics II | 2 |
| PLSC 802 | Advance Cytogenetics | 3 |
| PLSC 806 | Breeding for stress resistances and Tolerance | 2 |
| PLSC 808 | Research Methods and Experimental Design | 2 |
| PLSC: 810 | Statistical Methods | 2 |
| PLSC 882 & 884 | Seminar (1 Cu/Semester) | 1 |
| PLSC 892 & 894 | Research/Thesis | 4 |

### 2.5.5 Ph.D. Crop Breeding

*Admission Requirement*

An M.Sc. degree in Plant/ Crop Breeding, Genetics or Botany from a recognised university with a minimum CGPA of 3.50.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PLSC 909 | Advances in Plant Breeding | 3 |
| PLSC 981, 983, 985 | Seminar (1 Cu/Semester) | 1 |
| PLSC 991, 993, 995 | Research/Dissertation (6cu/Semester) | 6 |
| **Semester 2** | | |
| PLSC 904 | Use of Computer | 2 |
| PLSC 908 | Advances in Genetics | 3 |
| PLSC 982,984,986, 988 | Seminar (1 Cu/Semester) | 1 |
| PLSC 992,994,996,998 | Research/Dissertation (6cu/semester) | 6 |

## 2.6 DEPARTMENT OF SOIL SCIENCE

### 2.6.1 MSc. Soil Science

*Admission Requirements*

Candidates seeking admission to the Degree of Master of Science (Soil Science) should normally possess a First or Second Class Degree in Agriculture (or Agricultural Science). Candidates with First or Second Class Degrees in other Biological or Physical Sciences may also be considered. However, if admitted such students will be required to satisfactorily complete prescribed remedial courses. Candidates with 3rd Class degree may be offered admission provided they have spent a minimum of five years after graduation or acquired a relevant PGD. Candidates with other relevant qualifications and experience which are considered as equivalent to theabove by the Department, the Faculty Board, and the Senate, may also be considered for admission. Candidates shall also be required to fulfill other Faculty and University requirements and regulations relating to postgraduate admission.

*Graduation Requirements*

A student must take a minimum of 24 credit units of course work and 12 credit hours for research. So, for a student to satisfy the minimum credit units required for the M.Sc., he/she must complete a minimum of 36 credit units.

The areas of specialization in Soil Science are:-

(a) Soil Physics
(b) Soil Fertility Fertilizer Technology
(c) Soil Chemistry and Mineralogy
(d) Soil Microbiology
(e) Soil Survey, Classification and Land use Planning
(f) Soil and Water Management and Conservation
(g) Agroclimatology

*Course Structure*

**First Semester**

| Course code | Course title | Credit Units |
|---|---|---|
| **Core / Compulsory Departmental Courses** | | |
| SOSC 801 | Soil Genesis and Classification | 3 |

| | | |
|---|---|---|
| SOSC 841/AGRON 804 | Experimental Designs | 3 |
| SOSC 881, 883 | Seminar I & III | 1/semester |
| SOSC 891, 893 | M.Sc. Research/Thesis I & III | 4/semester |
| **Core Specialization Courses** | | |
| **Soil Physics Specialization** | | |
| SOSC 853 | Soil-Water-Plant Relations | 2 |
| SOSC 851 | Intermediate Soil Physics | 3 |
| **Soil Fertility/Fertilizer Technology and Soil Chemistry Specialization** | | |
| SOSC 859 | Mineral Nutrition of Crops | 3 |
| SOSC 871 | Pesticides in Soils | 3 |
| **Soil Microbiology Specialization** | | |
| SOSC 859 | Mineral Nutrition of Crops | 3 |
| SOSC 803 | Soil and Plant Analysis | 2 |
| **Soil Survey, Classification and Land Use Specialization** | | |
| SOSC 853 | Soil-Water-Plant Relations | 3 |
| SOSC 863 | Soil and Land Use Planning | 3 |
| **Soil and Water Management and Conservation Specialization** | | |
| SOSC 853 | Soil-Water-Plant Relations | 3 |
| SOSC 861/AGRON 818 | Tillage and Crop Production | 2 |
| SOSC 859 | Mineral Nutrition of Crops | 3 |
| **Agro climatology Specialization** | | |
| SOSC 853 | Soil-Water-Plant-Relations | 3 |
| **Electives/Supportive (Optional) Courses (**at the discretion of the student and advisory committee) | | |
| SOSC 803 | Soil and Plant Analysis | 2 |
| SOSC 853 | Soil-Water-Plant Relations | 3 |
| SOSC 859 | Mineral Nutrition of Crops | 3 |
| SOSC 861/AGRON 818 | Tillage and Crop Production | 2 |
| SOSC 863 | Soil & Land Use Planning | 3 |
| SOSC 871 | Pesticides in Soils | 3 |
| SOSC 851 | Intermediate Soil Physics | 3 |

**Second Semester**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **Core / Compulsory Departmental Courses** | | |
| SOSC 840/AGRON 803 | Statistical Methods | 3 |
| SOSC 841/AGRON 804 | Experimental Designs | 3 |
| SOSC 856 | Intermediate Soil Chemistry | 3 |
| SOSC 882, 884, 886 | Soil Science Seminar II, IV & VI | 1/semester |
| SOSC 892, 894, 896 | Thesis/Research II, IV & VI | 4/semester |
| **Core Specialization Courses** | | |
| **Soil Physics Specialization** | | |
| SOSC 852 | Soil Physical Measurement | 3 |
| SOSC 802 | Soil and Water Management | 3 |
| SOSC 850 | Agricultural Climatology | 3 |
| **Soil Fertility/Fertilizer Technology and Soil Chemistry Specialization** | | |
| SOSC 858 | Soil Microbiology | 3 |
| SOSC 864 | Soil Mineralogy | 3 |
| **Soil Microbiology Specialization** | | |
| SOSC 858 | Soil Microbiology | 3 |
| SOSC 872 | Practical Soil Microbiology | 3 |
| **Soil Survey, Classification and Land Use Specialization** | | |
| SOSC 862: | Soil Survey | 3 |
| SOSC 864: | Soil Mineralogy | 3 |
| **Soil and Water Management and Conservation Specialization** | | |
| SOSC 802 | Soil and Water Management. Management of | 3 |
| SOSC 854 | Irrigated Lands | 3 |
| SOSC 804 | Management of Tropical Soils | 2 |
| **Agro climatology Specialization** | | |
| SOSC 850 | Agricultural Climatology | 3 |
| SOSC 802 | Soil and Water Management. Management of | 3 |

| | | |
|---|---|---|
| SOSC 804 | Tropical Soils | 2 |
| **Electives/Supportive (Optional) Courses (**at the discretion of the student and advisory committee) | | |
| SOSC 802 | Soil and Water Management | 3 |
| SOSC 804 | Management of Tropical Soils Agricultural | 2 |
| SOSC 850 | Climatology | 3 |
| SOSC 852 | Soil Physical Measurement | 2 |
| SOSC 854 | Management of Irrigated Lands | 3 |
| SOSC 858 | Soil Microbiology | 3 |
| SOSC 861/AGRON 818 | Tillage and Crop Production | 2 |
| SOSC 862 | Soil Survey | 3 |
| SOSC 864 | Soil Mineralogy | 3 |
| SOSC 870/AGRON 818 | Farming Systems | 2 |
| SOSC 872 | Practical Soil Microbiology | 3 |

### 2.6.2 PhD Soil Science

*Admission Requirements*

A candidate seeking admission to a Ph.D. programme in Soil Science should normally possess a good Master's Degree in the relevant area of Agricultural Science or a related discipline from a recognised University with a CGPA of not less than 3.50. An M.Sc. Degree earned through course-work and research is mandatory otherwise the applicant shall be considered for an M.Phil. Ph.D. students may be required to take prescribed remedial courses where this is considered necessary. Satisfactory performance at such courses is essential. Candidates with other relevant qualifications which are deemed equivalent to the above by the Department, the Faculty Board and the Senate may also be considered.

*Graduation Requirements*

To qualify for a Doctorate Degree a minimum of 54 credit Units must be earned. These credits accrue on successful completion of prescribed major and optional courses, including a seminar and research.

*Course Structure*

**First Semester**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **General** | | |
| SOSC 981, 983, 985, 987 | Soil Science Seminar I, III, V, VII | 1/Semester |
| SOSC 991, 993, 995, 997 | PhD Research I, III, V, VII | 6/semester |
| **Electives/Supportive (Optional) Courses (**at the discretion of the student and advisory committee) | | |
| SOSC 901/AGRON 801 | Research Methodology | 3 |
| SOSC 907 | Advanced Soil Physics | 3 |

**Second Semester**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **General** | | |
| SOSC 982, 984, 986, 988 | Soil Science Seminar II, IV, VI, VIII | 1/semester |
| SOSC 992, 994, 996, 998 | PhD Research II, IV, VI, VIII | 6/ semester |
| **Electives/Supportive (Optional) Courses (**at the discretion of the student and advisory committee) | | |
| SOSC 902 | Advanced Soil Chemistry | 3 |
| SOSC 904 | Advances in Fertilizer Technology and Use Advanced | 3 |
| SOSC 960 | Soil Fertility | 3 |

# CHAPTER 3

# FACULTY OF ARTS

## 3.1 DEPARTMENT OF AFRICAN LANGUAGES AND CULTURES

*Postgraduate Programmes*

MA African Language
PhD African Language
MA African Literature
PhD African Literature
MA African Cultural Studies
PhD African Cultural Studies
PGD Translation and Interpretation

### 3.1.1 Postgraduate Diploma in Translation and Interpretation(PGDTI)

*Admission Requirements*

For entry to the programme, candidates are expected to hold a first degree at second class level in Hausa OR any of Arabic, English or any related language can be admitted. However candidates with third class and relevant experience may be considered. Proficiency in Hausa is essential.

*Duration*

The duration of the course is 12 Calendar months at weekends.

*Graduation Requirements*

1. Course work of 12 Calendar months
2. Project

*Course Structure*

**First Semester**

| Course code | Course Title | Credit Unit |
|---|---|---|
| PGDTI 701 | History of Translation and Interpretation. | 2 |
| PGDTI 703 | Technical Translation | 2 |
| PGDTI 705 | Language History and Change | 2 |
| PGDTI 707 | Hausa Thought and Orature | 2 |
| PGDTI 781 | Seminar (1/semester) | 1 |
| PGDTI 791 | Research/Project (3/semester) | 3 |

**Semester 2**

| Course code | Course Title | Credit Unit |
|---|---|---|
| PGDTI 702 | Hausa in the Media | 2 |
| PGDTI 704 | Semantics and Pragmatics | 2 |
| PGDTI 706 | Translation and Interpretation in an Emerging Democracy. | 2 |
| PGDTI 708 | Hausa Sentence Structure | 2 |
| PGDTI 710 | Classification of African People | 2 |

| | | |
|---|---|---|
| PGDTI782 | Seminar (1/semester) | 1 |
| PGDTI 792 | Research/Project (3/semester) | 3 |

**3.1.2. Master (MA) Programmes**

*Admission Requirements*

i. A minimum of second class lower degree in the proposed African language may be considered for MA African Language, Literature, or Cultural Studies.

ii. A minimum of second class lower degree in related disciplines such as Linguistics, Translation, Literature, Cultural Studies or any non-African language, with proficiency in the proposed language may be considered for M.A. African Language, Literature or Cultural Studies as applicable.

iii. A minimum of second class lower degree in related disciplines, with proficiency in proposed language of research and a postgraduate Diploma in related disciplines such as translation, cultural studies etc.

iv. Third class degree in the proposed African language of study, with five years post-graduation experience in an educational institution or a Postgraduate Diploma in related discipline such as translation, or cultural studies.

*Graduation Requirements*

Graduating students are expected to earn a total number of (41) Credit unit (cu) from the course- work and thesis as follows:

- Course work ……. 29cu
- Thesis……..…….. 12cu
- Total ……..….41cu

*Course Structure forMA Courses*

**First Semester**

Students are to register for a total number of 15 C.U.

**A. M.A. African Languages**

| Course Code | Course Title | Credit |
|---|---|---|
| AFLN 801 | Fundamentals of Linguistics (Core) | 3 CU |
| AFLN 803 | Historical Linguistics (Elective) | 2 CU |
| AFLN 805 | Sociolinguistics (Elective) | 2 CU |
| AFLN 807 | Technical Translation (Elective) | 2CU |
| AFLN 809 | Research Methods (Compulsory) | 2 CU |
| AFLT 801 | Fundamentals of poetics (Compulsory) | 3 CU |
| AFCU 801 | Foundations of Cultural Studies (Compulsory) | 3 CU |
| AFLN 881,883 | Seminar I,III | 1 CU |
| AFLN 891,893 | Research/Thesis 1,III | 4CU |

**Elective(s) may be taken from the Department of English in Language or Literature courses. (3 CU)**

**B. M.A. African Literature**

| Course Code | Course Title | Credit |
|---|---|---|
| AFLT 801 | Fundamentals of poetics (Core) | 3 CU |
| AFLT 803 | Comparative Literature (Elective) | 2 CU |
| AFLT 805 | African Drama (Elective) | 2 CU |
| AFLT 807 | Research Methods (Compulsory) | 2CU |
| AFLN 801 | Fundamentals of Linguistics (Core) | 3 CU |
| AFCU 801 | Foundations of Cultural Studies (Compulsory) | 3 CU |
| AFLT 881,883 | Seminar I,III | 1 CU |
| AFLT 891,893 | Research/Thesis 1,III | 4 CU |
| | Elective from English and Literature, Theatre and Performing Art Department (Elective) | 3 CU |

**Elective(s) may be taken from the Department of English or Theatre and Performing Arts (3 CU)**

**C. M.A. African Cultural Studies**

| Course Code | Course Title | Credit |
|---|---|---|
| AFCU 801 | Foundations of Cultural Studies (Core) | 3 CU |
| AFCU 803 | Culture – included Disciplines (Elective) | 2 CU |
| AFCU 805 | Comparative Ethnology (Elective) | 2 CU |

| | | |
|---|---|---|
| AFCU 807 | Aspects of Ethnography (Elective) | 2 CU |
| AFCU 809 | African Musical Culture (Elective) | 2 CU |
| AFCU 811 | Research Methods (Compulsory) | 2 CU |
| AFLN 801 | Fundamentals of Linguistics (Core) | 3 CU |
| AFLT 801 | Fundamentals of Poetics (Compulsory) | 3 CU |
| AFCU 881,883 | Seminar I,III | 1 CU |
| AFCU 891,893 | Research/Thesis 1,III | 4CU |

**Elective(s) may be taken from Archaeology or Sociology Departments.3CU**

**2nd Semester**

Students are expected to register for a total of 15 CU.

**A. M.A.African Language**

| Course Code | Course Title | Credit |
|---|---|---|
| AFLN 802 | Development in Linguistics (Core) | 2 CU |
| AFLN 804 | Generative Phonology & African Language (Cognate) | 2 CU |
| AFLN 806 | Dialectology (Elective) | 2 CU |
| AFLT 802 | Development in Poetics (Core) | 3 CU |
| AFCU 802 | African Social Institution /Organizations (Core) | 3 CU |
| AFLN 882,884 | Seminar II,IV | 1 CU |
| AFLN 892,894 | Research/Thesis I1,IV | 4CU |

**Elective(s) may be taken from the Department of English in Language or Literature courses. (3 CU)**

**B. M.A.African Literature**

| Course Code | Course Title | Credit |
|---|---|---|
| AFLT 802 | Development in Linguistics (Core) | 2 CU |
| AFLT 804 | Generative Phonology & African Language (Cognate) | 2 CU |
| AFLT 806 | Dialectology (Elective) | 2 CU |
| AFLT 808 | African Orature (Elective) | 2 CU |
| AFCU 802 | African Social Institution /Organizations (Core) | 3 CU |
| AFLT 882,884 | Seminar II,IV | 1 CU |
| AFLT 892,894 | Research/Thesis I1,IV | 4CU |
| | Elective from English and Literature, Theatre and Performing Art Department (Elective) | 3 CU |

**Elective(s) may be taken from the Departments of English or Theatre and Performing Arts.(3 CU)**

**C. M.A. African Cultural Studies**

| Course Code | Course Title | Credit |
|---|---|---|
| AFCU 802 | African Social Institution /Organizations (Core) | 3 CU |
| AFCU 804 | Classification of African Languages and People (Cognate) | 3 CU |
| AFCU 806 | African Material Culture (Elective) | 3 CU |
| AFCU 808 | African Beliefs and Philosophy (Elective) | 3 CU |
| AFCU 810 | Issues in Contemporary African Culture (Elective) | 3 CU |
| AFCU 812 | African Non-Material Culture (Elective) | 2 CU |
| AFLT 808 | African Orature (Elective) | 2 CU |
| AFCU 882,884 | Seminar II,IV | 1 CU |
| AFCU 892,894 | Research/Thesis II,IV | 4CU |
| | | 3 CU |

**Elective(s) may be taken from Archaeology/Sociology Departments.**

### 3.1.3 Doctorate (Ph.D.) Programmes

*Admission Requirements*

i. MA in the proposed African language, Literature, or Cultural Studies.

ii. MA in related disciplines such as Non-African Language, Literature or Cultural Studies with proficiency in the proposed language of study may be required to pass the Core Courses of MA African Language, Literature or Cultural Studies as the case may be.

*Graduation Requirements*

- Currently the Department does not offer course work for PhD Programme; however students are expected to write a Dissertation under the supervision of three supervisors, which will be examined by an external supervisor.

*Course Structure*

| Course Code | Title | Credit Unit |
|---|---|---|
| **Semester 1** | | |
| AFLN/AFLT/AFCU 981, 983, 985, 987,989 | Seminar I, III, V, VII (1CU/Semester) | 1 |
| AFLN/AFLT/AFCU 991, 993, 995, 997,999 | Research/Dissertation I, III, V, VII (6CU/Semester) | 6 |
| **Semester 2** | | |
| AFLN/AFLT/AFCU 981, 983, 985, 987,989 | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| AFLN/AFLT/AFCU 981, 983, 985, 987,989 | Research/Thesis II, IV, VI, VIII (6CU/Semester) | 6 |

## 3.2 DEPARTMENT OF ARABIC

*Postgraduate Programmes:*

Ph.D. - Arabic Language
Ph.D. - Arabic Literature
M.A - Arabic Language
M.A - Arabic Literature

### 3.2.1 MA Arabic Languageand 3.2.2 MA Arabic Literature

*Admission Requirements*

In Addition to the University requirements, the candidate must:

a) obtain a minimum of $2^2$ (not less than 3.00) and above in the first degree
b) not have a Combined Honour Degree
c) pass the Departmental Oral and Written Examinations
d) Non ABU graduate must present transcript before confirmation of their admission.
e) For foreign certificates, acquire at least a CGPA of 3.50.

*Graduation Requirements*

Graduating students are expected to earn a total number of (47) Credit unit (cu) from the course- work and thesis. However, they may take a minimum of 32 or a maximum of 34 courses in the course work as follows:

- Course work …… 32CU
- Thesis……..……..... 12CU
- Seminar …… 03CU

  Total …… 47CU

*M. A. Course Structure:*

**First Semester**

| **Core/Compulsory Courses** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Credit Units** |
| ARLG 801 | Fundamentals of Linguistics | 3 |
| ARLT 801 | Fundamentals of Poetics | 3 |
| ARLG809/ARLT 807 | Research Methods (Linguistic and Literary) | 3 |
| **Core/Specialisation Courses** | | |
| **Language Option:** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| ARLG 803 | Historical Linguistics | 3 |
| ARLG 805 | Sociolinguistics | 3 |
| **Electives** | | |
| ARLG 807 | Language and Computer | 3 |
| ARLG 811 | Textual Analysis | 3 |
| **Literature Option:** | | |

| Course Code | Course Title | Credit Units |
|---|---|---|
| ARLT 803 | Comparative Literature | 3 |
| ARLT 805 | Fundamentals of Prose and Drama | 3 |
| **Electives** | | |
| ARLT 809 | Language and Computer | 3 |
| ARLT 811 | Literature/Culture | 3 |

**General courses:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Language** | | |
| ARLG881, 883 | Seminar I & III | 1cu/semester |
| ARLG 891, 893 | Research/Thesis I & III | 4cu/semester |

**Literature**

| | | |
|---|---|---|
| ARLT 881, 883 | Seminar I & III | 1cu/semester |
| ARLT 891, 893 | Research/Thesis I & III | 4cu/semester |

**Second Semester:**

| **Core/Compulsory Courses** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Credit Units** |
| ARLG 802 | Developments in Linguistics | 3 |
| ARLT 802 | Developments in Poetics | 3 |
| **Core/Specialisation Courses** | | |
| **Language Option:** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| ARLG 804 | Grammar and Syntax | 3 |
| ARLG 806 | Rhetoric and Semantics | 3 |
| **Electives** | | |
| ARLG 808 | Advance Prosody and Rhyme | 3 |
| ARLG 810 | Stylistics | 3 |
| ARLG 812 | Psycholinguistics | 3 |
| ARLG 814 | Translation Studies | 3 |
| **Literature Option:** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| ARLT 804 | Nigerian Arabic Literature | 3 |
| ARLT 806 | Developments in Arabic Prose and Drama | 3 |
| **Electives** | | |
| ARLT 808 | Arabic in Media and International Organisations | 3 |
| ARLT 810 | Modern Literary Criticism | 3 |
| ATLT 812 | Textual Analysis Rhetoric | 3 |
| ARLT 814 | Rhetorical Inimitability of the Quran | 3 |

**General courses:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Language** | | |
| ARLG882, 884 | Seminar II & IV | 1cu/semester |
| ARLG 892, 894 | Research/Thesis II & IV | 4cu/semester |

**Literature**

| | | |
|---|---|---|
| ARLT 882, 884 | Seminar II & IV | 1cu/semester |
| ARLT 892, 894 | Research/Thesis II & IV | 4cu/semester |

**3.2.3 PhD Arabic Language and 3.2.4 PhD Arabic Literature**

*Admission Requirements*

In addition to the University requirements, the candidate must:

a) obtain Grade B and above in the overall M.A. result or coursework examination or CGPA of 3.50
b) pass the Departmental Oral Examination
c) not have a Combined Honour M.A. Degree
d) submit a viable research proposal

e) Non ABU graduate must present transcript before confirmation of their admission.
f) present M.A. Thesis (in case of candidates with foreign certificates)

*Course Structure*

**Ph.D. Arabic Language**

| Course Code | Course Title | Credit Units |
|---|---|---|
| ARLG 981, 982, 983 984, 985, 986 | Seminar I, II, III, IV, V & VI | 1cu/semester |
| ARLG991, 992, 993 994, 995, 996 | Research/Dissertation I,II,III, IV, V & VI | 6cu/semester |

**Ph.D. Arabic Literature**

| Course Code | Course Title | Credit Units |
|---|---|---|
| ARLT981, 982, 983 984, 985, 986 | Seminar I, II, III, IV, V & VI | 1cu/semester |
| ARLT991, 992, 993 994, 995, 996 | Research/Dissertation I,II,III, IV, V & VI | 6cu/semester |

## 3.3. DEPARTMENT OF ARCHEOLOGY

### 3.3.1. M.A. Archaeology

*Admission Requirements*

1. To be eligible for admission into M.A. Archaeology, an applicant must possess a Bachelor's degree in Archaeology with at least Second Class Upper Division from a recognized University.
2. Candidates with less than a Second Class Upper Division must have at least five years Postgraduate experience in the case of Second Class Lower Division and seven years in the case of Third Class.

*Graduation Requirements*

(a) Course work scoring a minimum of 2.50 Cumulative Grade Point Average (CGPA).
(b) Students must take a minimum of 30 credit units (CU) of courses to graduate.
(c) Students must present 3 seminars as part of their graduation requirements.
(d) In addition to passing their courses, students must do original research on an approved topic and submit a thesis (6-12 credit units) to be examined in partial fulfillment of the requirements for the award of the Master's degree in Archaeology.
(e) Students must register for all core courses for each semester. Elective courses can be taken from within and outside the Department. Students are especially encouraged to take electives from Geology, Geography, History, Fine Arts, Nigerian and African Languages, French, Sociology and Biology.

*Course Structure*

| Course Code | Title | Credit Units | Status |
|---|---|---|---|
| ACHE 801 | Theories and Methodologies of Archaeology | 3 | Core |
| ACHE 803 | Advanced Fieldwork Methods | 3 | Core |
| ACHE 805 | Archaeology Research Design and Execution | 3 | Core |
| ACHE 807 | Cultural Resource Management | 3 | Core |
| ACHE 809 | The African Iron Age | 2 | Elective |
| ACHE 881, 883 | Seminar 1 &III | 1/semester | Core |
| ACHE 891, 893 | Research/Thesis 1 &III | 4 | Core |

***Semester 2***

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| ACHE 802 | Advanced Field Methods | 3 | **Core** |
| ACHE 804 | Theories in West African Archaeology | 3 | Core |
| ACHE 806 | Advanced Ethno archaeology | 3 | Core |
| ACHE 808 | Archaeology of Early Food Production and Urbanisation | 3 | Core |
| ACHE 810 | Environmental Archaeology | 2 | Elective |
| ACHE 882, 884 | Seminar II& IV | 1/semester | Core |
| ACHE 892, 894 | Research/ThesisII&IV | 4/semester | Core |

### 3.3.2 Ph. D. Archeology

*Admission Requirements*

For Ph.D. Archaeology, candidates must possess Master degrees in Archaeology from recognized Universities with a minimum CGPA of 3.50. For the Ph.D. degree in Cultural Resource Management, a candidate must obtain a Master degree in Archaeology or any related discipline like Museum studies, Art History and Anthropology.

*Graduation Requirements*

The Ph.D. programme is largely by research and the production of a Dissertation. Seminars in Advanced Research Methods, Data analysis, Excavation techniques shall be offered. In cases where students come from related disciplines they must take some Masters level courses to be determined by the Department before graduating.

*Research*

To qualify for graduation, students for Ph.D. degrees must present at least 6 properly researched seminar papers, undertake researches based on approved topics by the Department and submit dissertations to be assessed in line with the stipulated guidelines by the Postgraduate school.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| ACHE 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| ACHE 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| ACHE 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| ACHE 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

## 3.4. DEPARTMENT OF ENGLISH AND LITERARY STUDIES

### 3.4.1 MA English Language and 3.4.2 English Literature

*Admission Requirements*

(i) Candidates for entry into the M.A. Postgraduate programme of English studies: English Language and Literature in English, will normally be required to possess a first degree in English of at least Second Class upper standard.

(ii) However, a candidate with a good lower second class degree in English studies may be accepted, provided that the Department is satisfied that he/she has ability for postgraduate work, such as may have been revealed by an outstanding performance at the undergraduate level in an area of specialisation appropriate to the degree course for which he/she is applying.

(iii) Candidates for this degree are required to spend the first year on course work lasting for two semesters.

The thesis can be defended after 18 months into the MA programme.

*Course Structure*

**English Language (Semester 1)**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LANG 801 | Theory of Language I | 2 |
| LANG 803 | Multilingualism | 2 |
| LANG 805 | English Language in Nigeria | 2 |
| LANG 807 | Advanced Psycholinguistics I | 2 |
| LANG 809 | Morphology | 2 |
| LANG 811 | Semantics | 2 |
| LANG 813 | Dialectology | 2 |
| LANG 815 | Stylistics | 2 |
| LANG 881,883 | Seminars 1 &III | 1/semester |
| LANG 891, 893 | Research/Thesis 1 &III | 4/semester |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LANG 802 | Theory of Language II | 2 |
| LANG 804 | Pidgins and Creoles | 2 |
| LANG 806 | AdvancedPsycholinguistic II | 2 |
| LANG 808 | Advanced Syntax | 2 |
| LANG 810 | Pragmatics | 2 |
| LANG 812 | Applied Linguistics | 2 |
| LANG814 | Research Methodology | 2 |
| LANG 882, 884 | SeminarsII & IV | 1/semester |
| LANG 892, 894 | Research/ThesisII & IV | 4/semester |

**English Literature (Semester 1)**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LITT 801 | Nigerian Fiction | 2 |
| LITT 803 | Literary Theory I | 2 |
| LITT 805 | Literary History I (Classicism to the Enlightenment) | 2 |
| LITT 807 | Literary Genres I: (Poetry and Drama) | 2 |
| LITT 809 | Orature | 2 |
| LITT 811 | Research Methods I | 2 |
| LITT 813 | Literature and the Mass Media | 2 |
| LITT 815 | Caribbean Literature | 2 |
| LITT 817 | Women Writing | 2 |
| LITT 881, 883 | Seminars 1 &III | 1/semester |
| LITT 891, 893 | Research/Thesis 1 &III | 4/semester |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LITT 802 | Nigerian Drama and Poetry | 2 |
| LITT 804 | Literary Theory II | 2 |
| LITT 806 | Literary History II | 2 |
| LITT 808 | Literary Genres II (Prose and Popular Culture) | 2 |
| LITT 810: | Research Methods II | 2 |
| LITT 812 | Literature in Northern Nigeria | 2 |
| LITT 814 | Literature and the Curriculum | 2 |
| LITT 816 | African-American Literature | 2 |
| LITT 818 | Children Literature | 2 |
| LITT 882, 884 | SeminarsII & IV | 1/semester |
| LITT 892, 894 | Research/Thesis II & IV | 4/semester |

**3.4.3 Ph.D.English Language and 3.4.4 English Literature**

*Admission Requirements*

A candidate who possesses a Master's degree in English studies with a minimum CGPA of 3.50 will be accepted into the Ph.D. programme. Each such candidate must however, provide evidence that this degree is of a quality acceptable to the department in particular. If a thesis or dissertation or any other substantial piece of writing formed part or the whole of the requirements for the degree, he must make a copy of it available for scrutiny.

(i) The Ph.D. programme is by research and minimal course work especially in research methods, data analysis and advanced computer studies. Candidates may also be required to take supplementary courses where this is felt to be necessary.

(ii) Candidates for this degree will be examined partly by reference to their performance in a substantial thesis and in an oral examination.

(iii) Every full-time candidate for this degree must pursue his studies for not less than 2 years and not more than 3 years from the date of registration before being examined. Every part-time candidate must pursue his studies for not less than 3 years and not more than 5 years from the date of registration before being examined.

(iv) After registration for the degree programme each candidate shall be assigned a supervisor who will be assisted by two other supervisors. The candidate is expected to consult regularly with them until the thesis is ready for examination.

*Course Structure (English Literature)*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LITT 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| LITT 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LITT 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| LITT 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

*Course Structure (English Language)*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LANG 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| LANG 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LANG 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| LANG 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

## 3.5. DEPARTMENT OF FRENCH

**Postgraduate Diploma in Translation and Interpretation (French)**

***Introduction***

The Department of French intends to run a Postgraduate Diploma in Translation and Interpretation in French to serve as a bridging gap for holders of third class degrees aspiring to carry out Postgraduate studies in French. The Postgraduate Diploma in Translation and Interpretation is a twelve Calendar month program run ***for two semesters***. The program will b sustained financially by the school fees paid by the students.

*Admission Requirements*

The general admission requirements into the PGDTI (French) will include:

- Bachelor degree in French
- Bachelor degree in any discipline + BACCALAUREATE
- Any other qualifications that may be acceptable to the PG School of the Ahmadu Bello University, Zaria.

The Postgraduate Diploma in Translation and Interpretation (French) is expected to last for 12 calendar months of two Semesters

*Course Structure*

***First Semester***

| Course Code | Status | Tittle | Credit Unit |
|---|---|---|---|
| FRNC 701 | Core | Introduction to Linguistics | 3 |
| FRNC 703 | Core | Translation and Language Theories I | 3 |
| FRNC 705 | Core | Interpretation Practice | 3 |
| FRNC 707 | Core | | 3 |

| | | | |
|---|---|---|---|
| FRNC 709 | Core | Translation Theories II | 3 |
| FRNC 711 | Core | Translation Practice II | 3 |
| FRNC 713 | Elective | Research Project<br>Translation and Globalization | 2 |

***Second Semester***

| Course Code | Status | Tittle | Credit Unit |
|---|---|---|---|
| FRNC 702 | Core | Introduction to Interpretation | 3 |
| FRNC 704 | Core | Translation Practice I | 3 |
| FRNC 706 | Core | Semantics and Stylistics in Translation<br>Translation Theories II | 3 |
| FRNC 708 | Core | Criticism of Professional Translation | 3 |
| FRNC 710 | Core | Interpretation Practice II | 3 |
| FRNC 712 | Elective | Translation in Nigeria | 2 |
| FRNC 714 | Elective | Schools of Translation and Interpretation | 2 |

**3.5.1 M.A. French**

M.A/Programmes will be offered as full-time courses. The period of studies will be 4 semesters.

*Options/Research Areas:*

- M.A. French Literature
- M.A. Francophone Negro-African Literature
- M.A. Francophone Caribbean Literature
- M.A. Language and Linguistics
- M.A. Comparative Literature
- M.A. Translation Studies
- M.A. Francophone African Politics

The Thesis will carry 12+Credit Units. The Course Work, spread over the first two (2) Semesters, will carry 30 Credit Units. The total number of Credits earned for the M.A. Degree course comes to a minimum of 42+ Credits.

*Admission Requirements*

Candidates should hold a Bachelor's (BA Honours Degree) in French, with a grade not lower than Second Class Lower (2.2) Honours from recognized universities.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| FRNC 801 | Research Methodology and Criticism | 3 |
| FRNC 803 | Francophone Caribbean Literature. | 3 |
| FRNC 805 | General Linguistics: Advanced phonetics and Phonology | 3 |
| FRNC 807 | French Colonialism and the rise of Nationalism in French Speaking Africa | 3 |
| FRNC 809 | Francophone African Literature (Colonial) | 3 |
| FRNC 811 | Translation Theories | 3 |
| FRNC 881,883 | Seminars I & III | 1/semester |
| FRNC 891, 893 | Research/Thesis. I & III | 4/semester |

| | | |
|---|---|---|
| **Semester 2** | | |
| FRNC 802 | Research organization, Approach and Conduct | 3 |
| FRNC 804 | Francophone African literature of the Post-Independence Era. | 3 |
| FRNC 808 | The French Novel: Classical Modern and Contemporary. | 3 |
| FRNC 810 | Syntactic Theories and Grammatical Models | 3 |
| FRNC 818 | Semantic and Stylistics in Translation and Phonology | 3 |
| FRNC 882, 884 | Seminars II & IV | 1/semester |
| FRNC 892, 894 | Research/Thesis. II & IV | 4/semester |

### 3.2.2 Ph.D. French

*Options/Research Areas:*

- Ph.D. French Literature
- Ph.D. Francophone Negro African Literature
- Ph.D. Francophone Caribbean Literature
- Ph.D. Language and Linguistics
- Ph.D. Comparative Literature
- Ph.D. Translation Science
- Ph.D. Francophone African Politics
- Ph.D. French (Translation)

*Admission Requirement*

1. Candidate must have a good M. Phil. Degree or its equivalent in French from recognized University or Institution of Higher Learning.
2. Candidate with MA Degree from other University will be required to spend the first year taking and passing the entire Course Work or our MA Programme, and presenting Two (2) Seminar Papers, before end of the 1st year.

*Graduation Requirements*

In order to graduate, Ph.D. candidates must have presented and passed all their Seminars including their Proposal, and successfully accomplish and defend before an External Examiner a Research Dissertation in conformity with the statuses of the School of Postgraduate Studies.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FRNC 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| FRNC 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FRNC 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| FRNC 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

## 3.6 DEPARTMENT OF HISTORY

### 3.6.1 M.A. History

*Admission Requirements*

Applicants should possess a Bachelor's degree in History from a fully recognized University with at least second class honors lower division or its equivalent. In some instances, candidates with third class with at least five years working experience or relevant additional qualification may be admitted.

*Graduation Requirement*

a. Course Work

The programme shall be for a period of 4 semesters. The course work shall take 2 semesters and the Thesis, 2 semesters. The Thesis shall have a value of 12+credit units. A list of courses and their credit units are provided below:

b. Research

In addition, candidates are to write and submit an M.A Thesis using primary source material under the guidance of a supervisor and pass the external examination.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| HIST 801 | Theories and Methodologies of History | 2 |
| HIST 803 | Advanced Study in the Historiography of African History | 2 |
| HIST 805 | Issues in World Contemporary History | 2 |
| HIST 807 | Information Technology and Historical Studies | 2 |
| HIST 809 | Gender and Development in History | 2 |
| HIST 811 | History and Environment | 2 |
| HIST 813 | History, Human Health and Development | 2 |
| HIST 881,883 | Seminar 1 & III | 1/semester |
| HIST 891,893 | Research/Thesis 1 &III | 4/semester |
| **Second Semester** | | |
| HIST 802 | Advanced Research and Writing in History | 2 |
| HIST 804 | Advanced Study in the Historiography of Nigerian History | 2 |
| HIST 806 | History and Development: Africa and Asia | 2 |
| HIST 808 | Social and Political Movements in Africa | 2 |
| HIST 810 | Culture, Identity and Nationhood in Africa | 2 |
| HIST 812 | History and Urbanisation | 2 |
| HIST 814 | History and Public Policy | 2 |
| HIST 882, 884 | Seminar II & IV | 1/semester |
| HIST 892, 894 | Research/Thesis II & IV | 4/semester |

**3.6.2 M.Phil. Historyand 3.6.3 PhD History**

*Admission Requirements*

To be admitted into a Ph.D. programme candidates should possess an MA in History or equivalent degree from a recognized University or Institute of Higher Learning. Applicant with an M. Phil or equivalent degree from a recognized university or equivalent Institution of Higher Learning in any subject, which is deemed relevant to the proposed research topic by the Department, may also be considered. Applicants already registered for the M.Phil. programme in the Department shall be permitted to transfer to the Ph.D. Programme in accordance with the provisions of the School of Postgraduate Studies.

In order to be admitted to the M. Phil/Ph.D. Programmes the candidates should discuss his/her proposed programme with the Department and submit an acceptable research proposal in accordance with the Regulations of the satisfactorily pass a course or courses from the M.A. Programme.

The following programmes will be offered:

- M. Phil/Ph.D. (Political and social History)
- M. Phil/Ph.D. (Economic History)
- M. Phil/Ph.D. (Urban History)
- M. Phil/Ph.D. (Environmental History)
- M. Phil/Ph.D. (Gender History)
- M. Phil/Ph.D. (Diplomatic History)
- M. Phil/Ph.D. (Medical History)
- M. Phil/Ph.D. (Public Policy Studies)

*Graduation Requirement*

All candidates must satisfactorily pass the prescribed seminar course and successfully present and defend research thesis in accordance with the provision of the School of Postgraduate Studies.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| HIST 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| HIST 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| HIST 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |

| | | |
|---|---|---|
| HIST 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

## 3.7 DEPARTMENT OF PHILOSOPHY

### 3.7.1 M.A. Philosophy

*Admission Requirements*

Minimum of second class lower honours degree in philosophy, but the Department may also consider candidates from other related disciplines. Knowledge of an African language, relevant to the proposed area of research is important.

*Graduation Requirement*

42 CU (coursework), 24 CU (thesis), Total of 68 CU

**A.** Course Work: Candidate must obtain at least 42 units for the 2 semesters for the coursework. To achieve this, a candidate would register the three core courses of 3 credit units each, two cognate courses of 3 credit units each and any two other elective courses of 3 credit units for the first semester. This makes a total of 21 credit units. Similarly for the second semester, a candidate would follow the same pattern except for the electives which the candidate should register any one, then take PHIL722: Seminar, which is compulsory.
**However,** a candidate may be required to take one or more undergraduate courses from areas other than Philosophy.

**B.** Thesis/Dissertation: This constitutes twenty four (24) credit units. Candidates are expected to write in any area of philosophy to be decided in consultation with the department in accordance with the regulation of the School of Postgraduate studies.

*Course Structure*

**Compulsory Courses**
**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| 1. | PHIL801: History of Philosophy | 3C.U. |
| 2. | PHIL805: Epistemology | 3C.U. |
| 3. | PHIL803: Metaphysics | 3C.U. |
| 4. | PHIL881 &883 Seminar (I & III) | 1CU/Semester |
| 5. | PHIL891 & 893Research/Thesis (I & III) | 4CU/Semester |

**Cognate Courses**

1. PHIL807: Logic and Critical Thinking 3C.U.
2. PHIL809: Philosophy of Religion 3C.U.

**Elective Courses**

1. PHIL811: Philosophy of Science 3C.U.
2. PHIL813: Analytic and Post-Analytic Philosophy 3.C.U.
3. PHIL815: Comparative Philosophy 3C.U.
4. PHIL 817: Philosophy of Art 3C.U.
5. PHIL819: Philosophy of Social Science 3C.U.
6. PHIL821: Social and Political Philosophy 3C.U.
7. PHIL823: Phenomenology, Existentialism and Hermeneutics 3C.U.

**Second Semester**
**Compulsory Courses**

| Course Code | Course Title | Credit Units |
|---|---|---|
| 1. | PHIL802: Studies in Ethics | 3C.U. |
| 2. | PHIL804: Africa Traditional Thought | 3C.U. |
| 3. | PHIL806: Philosophical Research and Writing | 3C.U. |
| 4. | PHIL 882, 884 Seminar II & IV | 1C.U./Semester |
| 5. | PHIL 892& 894 Research/Thesis II & IV | 4CU/Semester |

**Cognate Courses**

1. PHIL808: African Philosophy 3C.U.
2. PHIL810: Islamic Philosophy 3C.U.

**Elective Courses**

1. PHIL812: Classical Islamic Philosophy 3C.U.
2. PHIL814: Modern Philosophy 3C.U.
3. PHIL816: Modern Islamic Philosophy 3C.U.
4. PHIL818: Philosophy of Language 3C.U.
6. PHIL820: Philosophy of Mind 3C.U.

### 3.7.2 M. Phil/PhD

*Admission Requirements*

Candidates for admission into M.Phil./PhD programme should normally possess an M.A. Degree in related disciplines. Knowledge of an African language, relevant to the proposed area of research is important.

*Graduation Requirement*

Upon successful completion and passing the 48 CU and seminar presentation, candidates engaged into writing and defending their PhD Dissertation, which constitutes 24 CU.

**Course Structure**
**First Semester**

**Compulsory Courses for M.Phil./PhD**

1. PHIL801: History of Philosophy 3C.U.
2. PHIL805: Epistemology 3C.U.
3. PHIL803: Metaphysics 3C.U.
4. PHIL881 &883 Seminar (I & III) 1CU/Semester
5. PHIL891 & 893Research/Thesis (I & III) 4CU/Semester

**Cognate Courses First Semester**

1. PHIL807: Logic and Critical Thinking 3C.U.
2. PHIL809: Philosophy of Religion 3C.U.

**Elective Courses First Semester**

1. PHIL811: Philosophy of Science 3C.U.
2. PHIL813: Analytic and Post-Analytic Philosophy 3.C.U.
3. PHIL815: Comparative Philosophy 3C.U.
4. PHIL817: Philosophy of Art 3C.U.
5. PHIL819: Philosophy of Social Science 3C.U.
6. PHIL821: Social and Political Philosophy 3C.U.
7. PHIL823: Phenomenology, Existentialism and Hermeneutics 3C.U.

**Compulsory Courses forSecond Semester**

1. PHIL802: Studies in Ethics 3C.U.
2. PHIL804: Africa Traditional Thought 3C.U.
3. PHIL806: Philosophical Research and Writing 3C.U.
4. PHIL 882, 884 Seminar II & IV 1C.U./Semester
5. PHIL 892& 894 Research/Thesis II & IV 4CU/Semester

**Cognate Courses Second Semester**

1. PHIL808: African Philosophy 3C.U.
2. PHIL810: Islamic Philosophy 3C.U.

**Elective Courses Second Semester**

1. PHIL812: Classical Islamic Philosophy 3C.U.
2. PHIL814: Modern Philosophy 3C.U.
3. PHIL816: Modern Islamic Philosophy 3C.U.
4. PHIL818: Philosophy of Language 3C.U.
5. PHIL820: Philosophy of Mind 3C.U.

### 3.7.3 Doctor of Philosophy (PhD) Philosophy

*Admission Requirements*

Candidates for admission should normally possess M.A. degree in Philosophy. However, candidates from other disciplines whose qualifications and background are adequate for admission may be considered. But such candidates will go through the M.Phil. coursework.

*Course Structure*

**First Semester**

| | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1. | PHIL 991,993 &995 | Research/Dissertation(I,III&V) | 6cu/Semester |
| 2. | PHIL981,983 985 | Seminar (I,III &V) | 1C.U/Semester. |
| 3. | PHIL901: | History of Philosophy | 3C.U. |
| 4. | PHIL903: | Metaphysics | 3C.U. |
| 5. | PHIL905: | Epistemology | 3C.U. |
| 6. | PHIL907: | Logic and Critical Thought | 3C.U. |
| 7. | PHIL909: | Philosophy of Religion | 3C.U. |
| 8. | PHIL911: | Philosophy of Science | 3C.U. |
| 9. | PHIL913: | Analytic and Post-Analytic Philosophy | 3C.U. |
| 10. | PHIL915: | Comparative Philosophy | 3C.U. |
| 11. | PHIL 917: | Philosophy of Art | 3C.U. |
| 12. | PHIL 919: | Philosophy of Social Sciences | 3C.U. |
| 13. | PHIL 921: | Social and Political Philosophy | 3C.U. |
| 14. | PHIL 923: | Phenomenology, Existentialism and Hermeneutics | 3C.U. |

**Second Semester**

| | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1. | PHIL902: | Studies in Ethics | 3C.U. |
| 2. | PHIL904: | Africa Traditional Thought | 3C.U. |
| 3. | PHIL906: | Philosophical Research and Writing | 3C.U. |
| 4. | PHIL908: | African Philosophy | 3C.U. |
| 5. | PHIL910: | Islamic Philosophy | 3C.U. |
| 6. | PHIL912: | Classical Islamic Philosophy | 3C.U. |
| 7. | PHIL914: | Modern Philosophy | 3C.U. |
| 8. | PHIL916: | Modern Islamic Philosophy | 3C.U. |
| 9. | PHIL 918: | Philosophy of Language | 3C.U. |
| 10. | PHIL 920: | Philosophy of Mind | 3C.U. |
| 11. | PHIL 992,994 &996 | Research/Dissertation(II,IV&VI) | 6cu/Semester |
| 12. | PHIL982,984 986 | Seminar (II,IV &VI) | 1C.U/Semester. |

## 3.8 DEPARTMENT OF THEATRE AND PERFORMING ARTS

*Departmental Postgraduate Programmes*

PhD Theatre and Performing Arts
PhD Development Communication
PhD Theatre for Development
MA Theatre and Performing Arts
MA Development Communication
MA Theatre for Development

PGD Development Communication
PGD Home Video Production
PGD Theatre for Development
PGD Sensitive Conflict Reporting

*Doctor of Philosophy (PhD) Programmes*
As approved by the Faculty of Arts, all PhD programmes are purely by research. However, PhD students of the Department of Theatre and Performing Arts are required to audit at least five core courses in each semester at the MA level, except those who studied in the Department and who are proceeding directly from MA to PhD.

### 3.8.1 PGD Home video Production

*Admission Requirements*
Candidates coming for the PGD Home video Production must have ANY of the following qualifications:
i) A minimum of Second Class Lower or a Third Class Degree (with 2 years' post-graduation experience) in Development Communication, Theatre, Performing Arts, Mass communications, Journalism, Development Studies, Film, Social Development, Rural Development, Community Development, Geography, Languages and Literature, Rural Sociology, Agricultural Economics, Agricultural Extension, Broadcasting, Information Technology, Electrical and Electronics Engineering, Library and Information Science.
ii) Candidates from any of the Arts and Social Sciences or who have movie making experience or experience of the media from other disciplines are eligible with strong references.
iii) Candidates with a HND at Upper Credit levels are eligible for admission.
iv) Candidates who do not have the above qualifications but who have extensive field experience in movie production will be accepted on the condition that they audit 2 basic core courses in 200, 300 and 400 levels.

*Graduation Requirements*
i) Candidates for PGD must score a minimum of 2.5 Cumulative Grade Point Average to graduate.
ii) Candidates must take a minimum of 48 credit units of courses to graduate.

*Course Structure*
**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| THAP 731: | Script Writing for Home video | 2 |
| THAP 733: | Acting for Home video | 2 |
| THAP 735: | Home video Cinematography | 2 |
| THAP737: | Set design | 2 |
| THAP739: | Practical Work | 5 |
| THAP 741: | Copyright Law | 2 |
| THAP 743: | Production Management | 2 |
| THAP 781 | Seminar 1 | 1 |
| THAP 791 | Project 1 | 3 |

**Second Semester**

| | |
|---|---|
| THAP 732: Directing the Home video | 2 |
| THAP 734: Editing the Home video | 2 |
| THAP 736: Sound and Lighting for Home video | 2 |
| THAP 738: Home video Production and Marketing | 2 |
| THAP 740: Major Practical Project | 5 |
| THAP 742: Home video, Chroma and Special Effects | 2 |
| THAP 744: Costume and Make-up | 2 |
| THAP 782 Seminar 2 | 1 |
| THAP 792 Project 2 | 3 |

### 3.8.2 PGD Development Communication

*Admission Requirements*
Candidates coming for the PGD Development Communication must have ANY of the following qualifications:
A minimum of Second Class Lower or a Third Class Degree (with 2 years' post-graduation experience) in Development Communication, Theatre, Performing Arts, Mass communications, Journalism, Development Studies, Film, Social Development, Rural Development, Community Development, Geography, Architecture, Urban and Regional Planning, Languages and Literature, Rural Sociology, Agricultural Economics, Agricultural Extension, Broadcasting, Information Technology, Library and Information Science.

Candidates with HND at Upper Credit levels in the fields mentioned above;
Candidates from any of the Arts and Social Sciences or candidates who have development work experience or experience of the media and NGO work from other disciplines are eligible with strong references but such candidates will audit 3 core courses at 400 level.

*Graduation Requirements*
i) Candidates for PGD must score a minimum of 2.5 Cumulative Grade Point Average to graduate.
ii) Candidates must take a minimum of 48 credit units of courses to graduate.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core** | | |
| THAP 711: | Communication, Media and Society | 2 |
| THAP 713: | Community Development & Development Implementation | 2 |
| THAP 717: | Development & Participatory Communication Theories | 2 |
| THAP 719: | Research Methodology | 2 |
| THAP 721: | Agricultural Communication | 2 |
| THAP 723: | Gender Communication | 2 |
| THAP 725: | Practicum I | 3 |
| THAP: 727: | Field School | 4 |
| THAP 78I | Seminar | 1 |
| THAP 791 | Research/Project | 3 |
| **Electives** | | |
| THAP 707: | Cultural Studies | 2 |
| THAP 715: | Theories of Development | 2 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| THAP 704: | Participatory Learning and Action | 2 |
| THAP 708: | Practical Project | 4 |
| THAP 712: | Radio, Video and TV for Development | 2 |
| THAP 714: | Behaviour Change Communication Design for Development | 2 |
| THAP 718: | Statistics for Development Communication | 2 |
| THAP 722: | Health Communication | 2 |
| THAP 724: | New Media for Development | 2 |
| THAP 726: | Practicum II | 4 |
| THAP 78I | Seminar | 1 |
| THAP 791 | Research/Project | 3 |
| **Electives** | | |
| THAP 716: | Theatre for Development Case Studies | 2 |

*Graduation Requirements*
i) Candidates for PGD must score a minimum of 2.5 Cumulative Grade Point Average to graduate.
ii) Candidates must take a minimum of 48 credit units of courses to graduate.

*Course Synopsis*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core** | | |
| THAP 751 | Practical Theory | 2 |
| THAP 753 | Cultural Studies | 2 |
| THAP 755 | TFD Case Studies | 2 |
| THAP 757 | Popular Theatre | 2 |
| THAP 759 | Communication, Media and Society | 2 |

| | | |
|---|---|---|
| THAP 761 | Community Development | 2 |
| THAP 763 | Research Methodology | 2 |
| THAP: 765 | Field School | 5 |
| THAP: 791 | Research/Project 1 | 3 |

**Elective**

Any course from any of the programmes in the department.

**Second Semester Courses**

**Core**

| | |
|---|---|
| THAP 750: Participatory Learning and Action | 2 |
| THAP 752: Practical Project | 5 |
| THAP 754: Strategies in Development Implementation | 2 |
| THAP 756: Behaviour Change Communication Design for Development. | 2 |
| THAP 758: Development Theories | 2 |
| THAP 760: Radio, Video and TV for Development | 2 |
| THAP 762: Theatre for Specific Purposes | 2 |
| THAP 764: Statistics for Development Communication | 2 |
| THAP: 792: Research/Project II | 3 |

**Elective**

Any course from any of the programmes in the department

### 3.8.4 Postgraduate Diploma (PGD) in Sensitive Conflict Reporting

### 3.8.5 MA Theatre And Performing Arts

*Admission Requirements*

Candidates coming for the MA Theatre and Performing Arts must have ANY of the following qualifications:
i) A minimum Second Class Lower or a Third Class Degree (with 5 years' post-graduation experience) in Theatre, Performing Arts, Drama, Music, Creative Arts, Fine Arts, Mass communications, Journalism, Film, Languagesand Literature and Broadcasting.
ii) Candidates from any of the Arts or who have media work experience or experience of film and video productionfrom other disciplines are eligible with strong references but such candidates will audit 3 core courses at 400level. Candidates with a strong ABU PGD in Theatre for Development, PGD in Home video Production are eligible for admission.

*Graduation Requirements*

Candidates for MA must score a minimum of 2.50 Cumulative Grade Point Average to graduate.
Candidates must take a minimum of 60 credit units of courses to graduate.
Candidates must present two seminar papers which earn 2 credit points.

In addition to passing their courses, MA candidates must submit THESIS which is 12+ credit units in partial fulfilment for the award of the MA in Theatre and Performing Arts.

Coursework:48; Seminar 4 (1/Semester); Thesis 12+; Total:60 CU

*Course Structure*

**Year 1**

**First Semester**

| Course Code | Course Title | Credit unit |
|---|---|---|
| **Core** | | |
| THAP 801: | Trends in Modern Drama | 2 |
| THAP 803: | Theories of Performance | 2 |
| THAP 805: | Practical Theory | 2 |
| THAP 807: | Cultural Studies | 2 |
| THAP 819: | Acting and Stagecraft | 3 |
| THAP 819: | Research Methodology | 2 |
| THAP 825: | Practicum I | 4 |
| THAP: 827: | Field School | 4 |
| THAP 881 | Seminar | 1cu/semester |

THAP 891 Research/Thesis 4cu/semester

**Electives**
Candidate may choose any course from any of the other programmes

**Second Semester**

**CORE**

| | | |
|---|---|---|
| THAP 802: | Popular Theatre | 2 |
| THAP 804: | Theatre for Specific Purposes | 2 |
| THAP 806: | African Drama | 2 |
| THAP 808: | Practical Project | 6 |
| THAP 818: | Directing | 4 |
| THAP 812: | Radio, Video and TV for Development | 2 |
| THAP 824: | New Media for Development | 2 |
| THAP 826: | Practicum II | 4 |

THAP 882 Seminar 1cu/semester
THAP 892 Research/Thesis 4cu/semester

**Electives**
Candidate may choose any course from any of the other programmes

**Year 2**

THAP 883 Seminar 1cu/semester
884 "
THAP 893 Research/Thesis 4cu/semester
894 "

### 3.8.6 MA Development Communication

*Admission Requirements*

Candidates coming for the MA Development Communication must have ANY of the following qualifications:
A minimum Second Class Lower or a Third Class Degree (with 5 years' post-graduation experience) in Development Communication, Theatre, Performing Arts, Mass communications, Journalism, Development Studies, Film, Social Development, Rural Development, Community Development, Geography, Architecture, Urban and Regional Planning, Languages and Literature, Rural Sociology, Agricultural Economics, Agricultural Extension, Broadcasting, Information Technology, Library and Information Science.

Candidates from any of the Arts and Social Sciences or who have development work experience or experience of the media and NGO work from other disciplines are eligible with strong references but such candidates will audit 3 core courses at 400 level.

Candidates with a minimum Lower Credit in ABU PGD in Development Communication and PGD in Home video Production are eligible for admission. Candidates with ABU PGD in Development Communication (with a minimum of lower credit) who wish to continue to masters may apply through the Faculty to the PG Board for transfer of their PGD coursework to the masters' programme.

*Graduation Requirements*

i) Candidates for MA must score a minimum of 2.50 Cumulative Grade Point Average to graduate.
ii) Candidates must take 60 credit units of courses to graduate.
iii) Candidates must present two seminar papers which earn 2 credit points.
iv) In addition to passing their courses, MA candidates must submit THESIS which is 6-12 credit units in partial fulfilment for the award of the MA in Development Communication.
v) Coursework:4; Seminar2; Thesis 6-12; Total:60CU

*Course Structure*

**Year 1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core** | | |

THAP 811: Communication, Media and Society 2
THAP 813: Community Development and Development Implementation 2
THAP 817: Development and Participatory Communication Theories 2
THAP 819: Research Methodology 2
THAP 821: Agricultural Communication 2
THAP 823: Gender Communication 2
THAP 825: Practicum I 4
THAP: 827: Field School 6
THAP 881 Seminar 1cu/semester
THAP 891 Research/Thesis 4cu/semester

**Electives**
THAP 807: Cultural Studies 2
THAP 815: Theories of Development 2

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**Second Semester Courses**
**Core**
THAP 804: Participatory Learning and Action 2
THAP 808: Practical Project 6
THAP 812: Radio, Video and TV for Development 2
THAP 814: Behaviour Change Communication Design for Development 3
THAP 818: Statistics for Development Communication 2
THAP 822: Health Communication 3
THAP 824: New Media for Development 2
THAP 826: Practicum II 4
THAP 882 Seminar 1cu/semester
THAP 892 Research/Thesis 4cu/semester
**Electives**
THAP 816: Theatre for Development Case Studies 2

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*Year 2*
THAP 883, 884 Seminar 1cu/semester
THAP 893, 894 Research/Thesis 4cu/semester

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### 3.8.7. PhD Theatre and Performing Arts

*Admission Requirements*

Candidates coming for the PhD Theatre and Performing Art must have ANY of the following qualifications:
i) A master of Arts degree in Theatre, Performing Arts, Drama, Music, Creative Arts, Mass communications, Journalism, Film, Languages and Literature and Broadcasting with a minimum CGPA of 3.50.
ii) Candidates from any of the Arts or Fine Arts or who have media or stage work experience or experience of film and video production from other disciplines are eligible with strong references but such candidates will audit 4 core courses at the MA level.

*Graduation Requirements*

i) Candidates for PhD must produce a full length dissertation of not less than 200 pages to graduate.

ii) Students must present two seminar papers as part of their graduation requirements.
iii) Students for Theatre For Development are required to do a majorField work in any chosen community on any development issue. Such a field work can be undertaken in environs of Zaria. The student will pay for expenses involved in the fieldwork.

To graduate a candidate must score a minimum of 50 marks

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| THAP 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| THAP 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| THAP 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| THAP 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

### 3.8.8 PhD Development Communication

*Admission Requirements*

Candidates coming for the PhD Development Communication must have ANY of the following qualifications:
Masters of Arts or Science in Development Communication, Theatre, Performing Arts, Mass communications, Journalism, Development Studies, Film, Social Development, Rural Development, Community Development, Geography, Languages and Literature, Rural Sociology, Agricultural Economics, Agricultural Extension, Broadcasting, Information Technology, Library and Information Science.

Candidates from any of the Arts and Social Sciences or who have development work experience or experience of the media and NGO work from other disciplines are eligible with strong references but such candidates will audit 4 core courses at the masters' level.

*Course Work*

The PhD programme for now is purely by research by PhD students who do not have a masters' background in Development Communication MUST audit courses at the MA level.

*Graduation Requirements*

Candidates for PhD must produce a full length dissertation of not less than 200 pages to graduate.

Students must present two seminar papers as part of their graduation requirements.

Students for Theatre For Development are required to do a major

Field work in any chosen community on any development issue. Sucha field work can be undertaken in environs of Zaria. The student will pay for expenses involved in the fieldwork.

To graduate a candidate must score a minimum of 50 marks

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| THAP 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| THAP 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| THAP 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| THAP 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

# CHAPTER 4

# FACULTY OF EDUCATION

## 4.1 DEPARTMENT OF ARTS AND SOCIAL SCIENCE EDUCATION

### 4.1.1 M. Ed Arabic Education

*Admission Requirements:*

The following are eligible for admission into the programme:

1. The candidates must satisfy the O/L requirement of five (5) Five O' Level Credits in English Language, Arabic and three other Arts/Social Science subjects in WAEC, NECO or SIS/HIS.
2. Holders of first degree in Arabic Education (B.Ed. or BA. Ed), with a minimum of 2nd class honours Lower Division from recognized university.
3. Holders of BA in Arabic, with a minimum of 2nd class honours lower division, and have undergone Post Graduate Diploma in Education (PGDE) from recognized university/institution.
4. The candidates must pass the placement written examination in both Arabic and English.

*Graduation Requirements:*

A candidate shall qualify for the graduation when he/she has:

1. Completed and passed the core departmental courses, and the Faculty courses he/she registered for.
2. Satisfied the internal and external examination requirements on his thesis which he/she must write preferably in Arabic language.

*Course structure:*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 801 | Statistical Methods | 2 |
| EDUC 803 | Research Methods in Education | 2 |
| EDAL 801 | Language Methods in Arabic | 3 |
| EDAL 803 | Arabic Curriculum Development | 3 |
| EDAL 805 | Psycholinguistics and Teaching/Learning of Arabic | 3 |
| EDAL 807 | Research Methods in Arabic | 3 |
| EDAL 881,883,885 | Seminar | 1/Semester |
| EDAL 891,893,895 | Research/Thesis | 4/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 802 | Statistical Methods 11 | 2 |
| EDAL 802 | Literature Methods in Arabic | 3 |
| EDAL 804 | Evaluation of Arabic Language Curriculum | 3 |
| EDAL 806 | Practicum | 3 |
| EDAL 882,884,886 | Seminar | 1/Semester |
| EDAL 892,894,896 | Research/Thesis | 4/Semester |

**4.1. 2: M. Ed Christian Religious Studies**

*Admission Requirements*

The admission requirements are as in the existing postgraduate degree programmes in the Faculty of Education. In addition, applicants have to undergo a screening exercise (written entrance exam).

*Course structure*

**First Semester**

**Core Departmental Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDCU 801 | Curriculum Development | 3 |
| EDUC 803 | Research Methods | 3 |
| EDUC 801 | Statistical Methods I | 3 |
| EDCS 881,883,885 | Seminar (1/semester) | 3-6 |
| EDCS 891,893,895 | Research/Thesis (4/semester) | 12+ |

**Specialization Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDCS 801 | Old Testament Studies | 3 |
| EDCS 803 | New Testament Studies | 3 |
| EDCS 805 | The Ecumenical Movement | 3 |

**Second Semester**

**Core Departmental Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDCU 802 | Curriculum Organisation and Evaluation | 3 |
| EDUC 802 | Statistical Methods II | 3 |
| EDCS 882,884,886 | Seminar (1/semester) | 3-6 |
| EDCS 892,894,896 | Research/Thesis (4/semester) | 12+ |

**Specialization Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDCS 802 | Covenant Theology and Ethics | 3 |
| EDCS 804 | The Theology and Ethical Teaching of ST. Paul | 3 |
| EDCS 806 | African Charismatic Movement in the 20th Century to date | 3 |

### 4.1.3 Ph.D. Christian Religious Studies

*Admission Requirements*

The admission requirements are as in the existing postgraduate degree programmes in the Faculty of Education. In addition, applicants have to undergo a screening exercise (written entrance exam).

*Course structure*

**First Semester**

**Core Faculty Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 901 | Advanced Statistics | 3 |
| EDUC 903 | Educational Thought and Practice | 3 |
| EDCS 981,983,985,987 | Seminar (1/semester) | 4-10 |
| EDCS 991,993,995,997 | Research/Dissertation (6/semester) | 24+ |

**Specialization Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDCS 901 | Applied Research Methodology | 3 |
| EDCS 903 | The Language and Literature of the New Testament | 3 |
| EDCS 905 | Independent Study | 3 |

**Second Semester**

**Core Faculty Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 902 | Data Processing in Education | 3 |
| EDCS 982,984,986,988 | Seminar (1/semester) | 4-10 |
| EDCS 992,994,996,998 | Research/Dissertation (6/semester) | 24+ |

**Specialization Courses**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDCS 902 | Progressive Revelation of God in the Old Testament | 3 |
| EDCS 904 | Types of Modern Theology | 3 |

### 4.1.4 M.ED Islamic Studies

*Admission Requirement*

i) Applicants for this programme must have at least second class lower Bachelor of education (Islamic Studies), or of Arts (Islamic Studies Special), in addition to the general requirements of Ahmadu Bello University, Zaria and the Faculty of Education, Equivalent qualifications may be considered.

ii) They must also demonstrate Arabic adequacy for their areas of concentration, or be ready to add pre-requisite courses of Arabic which enables them to graduate within the maximum number of years stipulated for graduation.

*Graduation Requirements*

i) Core Courses 6 credits
ii) Other core, specialization and electives 33 Credits
iii) Research/Thesis 6-12

*Course Structure*

**Education Core Courses**

| Course code | CourseTitle | CreditUnits |
|---|---|---|
| **First Semester** | | |
| EDUC 801 | Educational Statistics 1 | 2 |
| EDUC 803 | Research Methods | 2 |
| EDUC 881,883 | Seminar | 1/Semester |
| EDUC 891, 893 | Research/Thesis4/Semester | |

**Specialization courses:**

| | | |
|---|---|---|
| EDIS 801 | Advanced Quranic Studies | 3 |
| EDIS 803 | Usul al-Din 1 | 3 |

| | | | |
|---|---|---|---|
| EDIS 805 | Islamic Law 1 (Ibadat Nikah/Mirath) | | 3 |
| EDIS 807 | Muslim Political Thought | 3 | |
| **Elective** | | | **3** |

**Second semester**

**Education Core Courses**

| | | | |
|---|---|---|---|
| EDUC 802 | Educational Statistics 2 | | 2 |
| EDUC 882,884 | Seminar | | 1/Semester |
| EDUC 892, 894 | Research/Thesis4/Semester | | |

**Specialization courses**

| | | | |
|---|---|---|---|
| EDIS 802 | Advanced Hadith Studies | 3 | |
| EDIS 804 | Usul al-Fiqh | | 3 |
| EDIS 806 | Islamic Law 2 | | 3 |
| EDIS 810 | Islamic Studies Research Methods | 3 | |
| Elective | | 3 . | |

### 4.1.5 Ph. DIslamic Studies

*Admission Requirements*

i) In addition to the general University and Faculty requirement the applicants are expected to have Master's degree in Islamic Studies.

ii) They should also demonstrate their familiarity with one of the following aspects of Islamic Studies: Fiqh concentration; Usul al-Din concentration; Ulum al-Hadith al-Islamiyyah concentration.

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester** | | |
| EDIS 901 | Research Methods in Islamic Studies | 3 |
| EDIS 903 | Textual Study of Tafsir | 3 |
| EDIS 981,983, 985 | Seminar | 1/Semester |
| EDIS 991,993,995 | Research/Dissertation | 6/Semester |
| **Second Semester** | | |
| EDIS 902 | Textual Study of hadith collection | 3 |
| EDIS 982,984, 986 | Seminar | 1/Semester |
| EDIS 992,994,996 | Research/Dissertation | 6/Semester |

### 4.1.6 M. Ed Language Arts (Hausa)

*Admission Requirement*

Candidate must have one of the following qualifications;

i. B.Ed. (Hausa)
ii. B.A.Ed (Hausa)
iii. B.A + (PGDE) from a recognized University.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 803 | Research Methods | 3 |
| EDUC 801 | Educational Statistics I | 3 |
| EDUC 802 | Educational Statistics II | 3 |
| EDTH 805 | Theories of Grammar | 3 |
| EDTE 801 | Introduction to General Linguistics | 3 |
| EDTE 803 | Sociolinguistics and Language Teaching | 3 |
| AFLT 801 | Fundamentals of Poetics | 3 |
| EDTE 809 | Practicum | 3 |
| EDTE 881,883,885 | Seminar | 1/Semester |

| | | |
|---|---|---|
| EDTE 891,893,895 | Research/Thesis | 4/Semester |

**Second Semester**

| | | |
|---|---|---|
| EDTE 802 | Psycholinguistics and Language Teaching | 3 |
| EDTE 804 | Discourse Analysis and Pragmatics | 3 |
| EDTE 808 | Research in Hausa Language | 3 |
| EDTE 803 | Comparative Literature | 3 |
| EDTE 882,884,886 | Seminar | 1/Semester |
| EDTE 892,894,896 | Research/Thesis | 4/Semester |

### 4.1.7 M. Ed (Social Studies)

*Admission Requirements*

In addition to the University and Department's general requirements for admission, the section requires that each prospective candidate have:

i) A good background knowledge of Social Sciences and Social Studies
ii) The Social Studies Section will select qualified candidates for admission based on the abilities and previous academic achievements of the applicants.

*Course Structure*

**First semester**

| Course Code | Course Title | Credit Hours |
|---|---|---|
| EDUC 801: | Education Research | 3 CR |
| EDUC 803: | Education Statistics II | 3 CR |
| EDUCI 801: | Curriculum Studies | 3 CR |
| EDUCI 803: | Curriculum Change | 3 CR |
| EDSS 801: | Seminar in Social Studies Education | 3 CR |
| EDSS 803: | School Socialisation and Curriculum | 3 CR |
| EDSS 805: | Social Studies Resources and Instructional Strategies | 3 CR |
| EDUC 881,883,885 | Seminar | 1/Semester |
| EDUC 891,893,895 | Research/Thesis | 4/Semester |
| **Elective:** | 4 Credit hours either form Guidance and Counseling or Educational Psychology | 4 CR |

**Second Semester**

| | | |
|---|---|---|
| EDUC 802: | Educational Statistics I | 3 CR |
| EDUCI 802: | Curriculum Evaluation | 3 CR |
| EDSS 802: | Curriculum Trends in Social Studies | 3 CR |
| EDSS 804: | Social Studies Curriculum Workshop | 3 CR |
| EDSS 806: | Research and Colloquium | 3 CR |
| EDUC 882,884,886 | Seminar | 1/Semester |
| EDUC 892,894,896 | Research/ Thesis | 4/Semester |

### 4.1.8 Ph.D. (Social Studies)

*Admission Requirements*

As for Faculty of Education.

*Graduation Requirements*

As for Faculty of Education.

*Course structure*

**First Semester**

**Core Courses**

| Course code | Course title | Credit units |
|---|---|---|
| EDUC 901: | Educational Thought and Practice | 3 CU |
| EDUC 903: | Computer/Data Processing | 3 CU |

**Social Studies Courses**

| | | |
|---|---|---|
| EDSS 901: | Advanced Socialisation and Curriculum | 3 CU |
| EDSS 981,983,985 | Seminar | 1/Semester |
| EDSS 991,993,995 | Research/Dissertation | 6/Semester |

**Second Semester**

**Core Courses**

| Course code | Course title | Credit units |
|---|---|---|
| EDUC 902: | Advanced Statistics | 3 CU |
| EDSS 902: | Advanced Professional Seminar in Social Studies | 3 CU |

**Social Studies Courses**

| | | |
|---|---|---|
| EDSS 982,984,986 | Seminar | 1/Semester |
| EDSS 992,994,996 | Research/Dissertation | 6/Semester |

### 4.1.9 M. Ed (Teaching of English as a Second Language)

*Admission Requirements*

Candidates with a first or second class honours degree in education with specialization in English or Language Arts (Hausa) from a recognized university.

*Course Structure*

| Course code | Course title | Credit units |
|---|---|---|
| **First Semester** | | |
| EDUC803 | Research Methods | 2 |
| EDUC803 | Education Statistics I | 2 |
| EDUC801 | Introduction to General Linguistics | 3CT |
| EDUC811 | Socio-linguistic and Language Teaching | 3CT |
| EDUC805 | Theories of grammar | 3CR |
| EDTE 881,883 | Seminar | 1/Semester |
| EDTE 891,893 | Research/Thesis | 4/Semester |
| EDUC809 | Practicum | 2 |
| **Second Semester** | | |
| EDTE802 | Psycholinguistics and Language Teaching | 3CT |
| EDUC802 | Education Statistic II | 2CT |
| EDUC804 | Discourse Analysis and Pragmatics | 3CT |
| EDUC806 | Research in TESL | 3CT |
| EDUC808 | TESL Methodology | 3CT |
| EDTE 804 | Contrastive, Error Analysis and Second Language Devpt | 3CT |
| EDTE 882,884 | Seminar | 1/Semester |
| EDTE 892,894 | Research/Thesis | 4/Semester |
| **Total** | | **21** |

### 4.1.10 Ph.D. TESL (Teaching of English as a Second Language)& 4.1.11 PhD Language Arts (Hausa)

*Admission Requirements*

Candidates for the Ph.D. TESL/Language Arts (Hausa) programme must have at least a good M.Ed. TESL degree or its equivalent.

*Course structure*

**Ph.D. TESL Semester 1** **Credit**

| Course code | Course title | Credit units |
|---|---|---|
| EDTE 901 | Educational Though and Practice | 3CRr |
| EDTE 903 | Computer and Data Processing | 3CR |
| EDTE 901 | Educational Language Policy | 3CR |
| EDTE 903 | Discourse Analysis | 3CR |
| EDTE 981,983,985 | Seminar | 1/Semester |
| EDTE 991,993,995 | Research/Thesis | 6/Semester |

**Semester 2**

| | | |
|---|---|---|
| EDTE 902 | Advanced Educational Statistics | 3CR |
| EDTE 902 | Applied Linguistics and Language Study | 3CR |

| | | |
|---|---|---|
| EDTE 904 | Syllabus and curriculum Development in ESL | 3CR |
| EDTE 982,984,986 | Seminar | 1/Semester |
| EDTE 992,994,996 | Research/Dissertation | 6/Semester |

## 4.2 DEPARTMENT OF EDUCATIONAL FOUNDATION AND CURRICULUM

### 4.2.1 Master of Education (M .Ed) Educational Administration and Planning

*Admission Requirements*

The following shall be eligible to seek admission and registration for the degree of Masters of Education in Educational Administration and Planning

(a) Candidates who hold B.Ed. degrees from Ahmadu Bello University
(b) Candidates who hold B.A. or B.Sc. degrees plus graduate certificate in education; or diploma in education from Ahmadu Bello University
(c) Graduates of other universities who hold degrees and certificates considered by the Faculty Board, Postgraduate School Board and Senate to be equivalent to (a) and (b) above.
(d) Ability to pass qualifying examination designed by the educational administration and planning section.

Candidates must also meet the requirements of all other relevant general university registrations governing higher degree studies.

*Graduation Requirements*

These are as follows:

(a) Passing written examinations of all the prescribed courses (course work).
(b) Passing oral examinations on the chosen area of research (thesis) at proposal defence, internal defense and external defence.
(c) Written report on practicum in organization of candidate's choice.

*Course structure*

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| **First Semester** | | | |
| EDAP 804 | Schools plant administration and planning | 2 | Elective |
| EDCIS 814 | Curriculum Evaluation | 2 | Elective |
| EDAP 810 | Practicum in Educational Admin and Planning | 2 | Core |
| EDUC 802 | Statistics 2 | 2 | Core |
| EDAP 812 | Politics in Education | 2 | Elective |
| EDAP 805 | School Supervision | 2 | Elective |
| EDAP 808 | Advanced enquiry in educational administration and planning | 2 | Elective |
| EDAP 802 | Personnel Management | 2 | Elective |
| EDAP 806 | Comparative administration | 2 | Elective |
| EDCIS 801 | Curriculum Studies | 2 | Elective |
| EDCIS 803 | Curriculum Change process | 2 | Core |
| EDAP 881,883 | Seminar I & III | 1 | |
| EDAP 891,893 | Research/Thesis I & III | 4 | |
| **Second Semester** | | | |
| EDAP 809 | Quantitative Methodologies of educational planning | 3 | Core |
| EDUC 801 | Statistics I | 2 | Core |
| EDAP 807 | Educational Policies and Social Change | 2 | Core |
| EDAP 811 | Independent Readings and research seminar in educational admin and planning | 2 | Core |
| EDUC 803 | Educational Research Method | 2 | Core |
| EDAP 813 | Economics of Education | 2 | Elective |
| EDAP 803 | Administration in primary and secondary schools | 2 | Core |
| EDAP 801 | Theories of Administration | 2 | Core |
| EDAP 882,884 | Seminar II & IV | 1 | |
| EDAP 892,894 | Research/Thesis II & IV | 4 | |

### 4.2.2 Doctor of Philosophy (Ph.D.) in Educational Administration and Planning

*Admission Requirements*

The following shall be eligible to seek admission and registration for the degree of Doctor of Philosophy in Educational Administration and Planning:

(a) Candidates who hold master's degrees in related field from Ahmadu Bello University with a minimum CGPA of 3.50

(b) candidates of other recognized universities who hold higher degrees considered by the Faculty Board, Postgraduate School Board, and Senate to be equivalent to (a) above.

(c) Candidates with other qualifications which, together with relevant experience, are deemed to be equivalent

(d) Ability to pass qualifying examination designed by the educational administration and planning section.

Candidates must meet the requirements of all other relevant General University Regulations Governing Higher degree Studies.

*Graduation Requirements*

i) Must pass written examinations of all the prescribed courses (course work).

ii) Must present seminar paper on the chosen area of study before the staff and st6udent of the faculty

iii) Must pass oral examinations on the chosen area of study (dissertation) through proposal defence, internal defence and external defence before a panel of distinguished academics.

*Course Structure*

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| **First Semester** | | | |
| EDAP 901 | Organizational Theories | 3 | Core |
| EDAP 903 | Advanced Educational Planning Strategies | 3 | Core |
| EDAP 906 | Organizational Behavior | 3 | Core |
| EDAP 905 | Advanced Practicum | 3 | Core |
| EDUC 901 | Advanced Educational Statistics | 3 | Core |
| EDUC 903 | Educational Thoughts and Practice | 3 | Core |
| EDAP 981,983, 985,987,989 | Seminar I, III, V, VII, IX | 1/Semester | |
| EDAP 991,993, 995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester | |
| **Second Semester** | | | |
| EDAP 900 | Advanced Enquiry Strategies in Educational Administration and Planning | 3 | Core |
| EDAP 904 | Administration of Development Education | 3 | Core |
| EDAP 902 | Educational System Analysis | 3 | Core |
| EDUC 902 | Computer and Data Processing | 3 | Core |
| EDAP 982,984, 986,988 | Seminar II, IV, VI, VIII, | 1/Semester | |
| EDAP 992,994, 996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester | |

### 4.2.3 M. Ed. Curriculum and Instruction

*Admission Requirements*

Candidates wishing to apply for M. Ed Curriculum and Instruction should possess:

i) A minimum of a good second-class lower division degree in a school related subject and education.

ii) A minimum of a good second-class lower division degree in a school related subject, plus Nigerian Certificate in Education, Postgraduate Diploma in Education or their equivalent.

*Graduation requirement*

Thesis:

The Students admitted into Curriculum and Instruction programmes will be expected to submit a thesis to be internally and externally defended. = 6 Credit Units.

Summary of Credit Units:

Core Courses - 10 Credit Units

Major Courses - 10 Credit Units

Specialization Courses - 18 Credit Units
Electives - 02 Credit Units
Thesis - 06 Credit Units
46 Credit Units

*Course structure*

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| **First Semester** | | | |
| EDCI 801 | Curriculum Development | 3 | Core |
| EDCI 803 | Curriculum Change Process | 3 | Core |
| EDCI 805 | Secondary School Curriculum | 3 | Core |
| EDUC 803 | Educational Research Methods | 3 | Core |
| EDUC 801 | Educational Statistics I | 3 | Core |
| EDAP881,883 | Seminar II & IV | 1 | |
| EDAP 891,893 | Research/Thesis II & IV | 4 | |
| | **Plus 6 Credit Units in your area of specialization** | **6** | Elective |
| **Second Semester** | | | |
| EDCI 802 | Curriculum Organization & Development | 3 | Core |
| EDCI 804 | Curriculum Trends in the Specific Subject Area | 3 | Core |
| EDCI 806 | Practicum | 3 | Core |
| EDUC 802 | Educational Statistics II | 3 | Core |
| EDAP882,884 | Seminar II & IV | 1 | |
| EDAP 892,894 | Research/Thesis II & IV | 4 | |
| | **Plus 6 Credit Units in your area of specialization** | **6** | Elective |

### 4.2.4. Ph.D. Curriculum and Instruction

*Course Structure (Ph.D. in Curriculum and Instruction)*

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| **First Semester** | | | |
| EDCI 901 | Curriculum Development | 3 | Core |
| EDCI 903 | Curriculum Change Process | 3 | Core |
| EDUC 801 | Educational Statistics I | | |
| EDUC 803 | Educational Thought and Practice | 3 | Core |
| EDUC 981,983, 985,987,989 | Seminar I, III, V, VII, IX | 1/Semester | |
| EDUC 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester | |
| **Second Semester** | | | |
| EDCI 802 | Curriculum Organization & Development | 3 | Core |
| EDCI 804 | Curriculum Trends in the Specific Subject Area | 3 | Core |
| EDCI 805 | Practicum | 3 | Core |
| EDUC 802 | Computer and Data Processing | 3 | Core |
| EDUC 982,984, 986,988 | Seminar II, IV, VI, VIII, | 1/Semester | |
| EDUC 992,994, 996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester | |

*Specialization Courses*

The students are expected to take at least THREE courses in a particular school – related subject. These courses are core and should not be more than three (3) credit units each. 3 courses x 3 credit units = 9 Credits.

*Elective*

The candidate is expected to take at least one elective from either foundation education courses (Administration and Planning, Psychology, Guidance and Counseling etc.) or an Advanced Research Writing course. One elective = 3 Credits

*Dissertation*

The students admitted into Ph.D. Curriculum and Instruction programme will be expected to submit empirically researched and innovative doctoral dissertation that must be internally and externally defended and passed.

Summary of Credit Units

Core Courses - 09 Credit Units
Major Courses - 09 Credit Units
Specialization Courses - 09 Credit Units
Elective - 03 Credit Units
Research/Dissertation - 12-18 Credit Units

### 4.2.5 Postgraduate Diploma in Education Programme (PGDE)- Part Time

| Course Code | Course Title | Credit Units | Status | Remarks |
|---|---|---|---|---|
| **First Semester** | | | | |
| PGDE 701 | Curriculum Studies | 3 | Core | |
| PGDE 703 | Educational Psychology | 3 | Core | |
| PGDE 705 | Educational Foundation | 3 | Core | |
| PGDE 707 | Guidance and Counselling | 3 | Core | |
| PGDE 709 | Subject Method | 3 | Core | |
| PGDE 711 | Measurement and Evaluation | 3 | Core | |
| PGDE 713 | Statistical Methods | 3 | Core | |
| PGDE 715 | Research Methods | 3 | Core | |
| PGDE 717 | School Administration and Supervision | 3 | Core | |
| PGDE 719 | Instructional Technology | 3 | Core | |
| PGDE 791 | Research/Project | | | |
| | TOTAL | 30 | | |
| **Second Semester** | | | | |
| PGDE 702 | Teaching Practice | 9 | Core | |
| PGDE 792 | Research/Project | 3 | Core | |
| | TOTAL | 12 | | |

Total required for graduation 42 credit units

### 4.2.6 Doctor of Philosophy (Ph. D) Instructional Technology

*Admission Requirements*

*The* following shall qualify for admission into the Doctor of Philosophy degree programme in Educational Technology:

a. Graduates of the Ahmadu Bello University, Zaria or other recognized institutions who have obtained a Master's Degree in Educational Technology with a GPA of not less than 3.5 on a 5 point scale or not less than 3.0 on a 4 point scale

b. Candidates who hold qualifications other than the one listed above which are acceptableto the Senate of the University

c. Graduates of Ahmadu Bello University, Zaria who has been upgraded to Ph. Dthrough Master of Philosophy Programme/

d. In addition to (a), (b) and (C) above, a candidate must satisfy the university 's requirementsfor matriculation.

*Course Structure*

| Course Code | Course Title | CU |
|---|---|---|
| **Semester 1:** | | |
| EDUC 901: | Advance Statistics | 3 |
| EDIT 903. | Advance Data Processing | 2 |
| EDIT 905: | Resources Management . | 2 |
| EDIT 907: | Photographic Techniques in Education | 2 |
| EDIT 909: | Advanced Study of Innovative Techniques | 3 |
| EDIT 981,983,985 | Seminar I, III & V | 1/Semester |
| EDIT 991,993,995: | Research/Dissertation I, III & V | 6/Semester |
| **Semester 2:** | | |

| | |
|---|---|
| EDUC 902: Educational Thoughts and Practice | 3 |
| EDIT 904: Advance Educational Technology | 2 |
| EDIT 906: Radio and Television Techniques, Production and Application | 2 |
| EDIT 908: -Information Technology and Education | 2 |
| EDIT 981,983,985 Seminar I, III & V | 1/Semester |
| EDIT 991,993,995: Research/Dissertation I, III & V | 6/Semester |

**4.2.7 M. EdInstructional Technology**

*Admission requirements*

The following shall qualify for admission into the Master of Education degree programme in Educational Technology:

a. Graduates of the Ahmadu Bello University, Zaria or other recognized institutions who have obtained a B. Ed, B. A. Ed, B. Sc Ed or degrees of not less than Second Class lower.

b. Candidates who hold qualifications other than the one' listed above, which are acceptable to the Board of Postgraduate School and Senate of the University.

c. In addition to (a) and (b) above, a candidate must satisfy the university's requirements for matriculation.

*Specialisation*

- Instructional Design
- Education Media Production
- Instructional Materials Design
- Computer Assisted Teaching/Learning Packages
- Instructional Resource Management

*Requirements for graduation*

Students shall be required to register and pass 24 units of taught courses. Also, they are required to write dissertation to be defended before a panel of examiners in accordance with the existingpostgraduate school regulations of Ahmadu Bello University, Zaria.

*Course Structure*

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Semester 1:** | | |
| EDIT 801: | Educational Statistics | 2 |
| EDIT 803: | Advance Educational Technology | 2 |
| EDIT 805: | Resources Management | 2 |
| EDIT 807: | Photographic Techniques in Education | 2 |
| EDIT 809: | Advance Study of Innovative Techniques | 2 |
| EDIT 811: | System Approach to Solving Problems | 2 |
| EDUC 881,883 | Seminar (1/semester) | 1 |
| EDUC 891,893 | Research/Thesis (4/semester) | 4 |
| **Semester 2:** | | |
| EDIT 802: | Research Methods in Education | 2 |
| EDIT 804: | Graphic Design and Use in Instruction | 2 |
| EDIT 806: | Radio and Television Techniques, Production and Application | 2 |
| EDIT 808: | Information Technology and Education | 2 |
| EDIT 810: | Operation and Maintenance of Media Equipment | 2 |
| EDIT 812: | Computer Programming | 2 |
| EDUC 882,884 | Seminar (1/semester) | 1 |
| EDUC 892, 884 | Research/Thesis (4/semester) | 4 |

**NB** Students will register two (2) courses of two (2) credits each at the same level from curriculum studies section. This will be determined by the sectional head.

## 4.3 DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND COUNSELLING

### 4.3.1 M. Ed. Educational Psychology

*Admission Requirements*

i. B.Ed., B.A. (Ed), B. Sc (Ed) with Second Class Upper or with C.G.P.A of 3.50 and above.
ii. Post Graduate Diploma in Education (PGDE), from a recognised institution to B.A., B.Sc. with Second Class Upper or C.G.P.A. 3.50 and above plus
iii. Applicants may be required to appear for pre-admission screening examination to be conducted by the department and the screening date will be announced by the School of Postgraduate Studies.
iv. Submission of Applicants' Academic Transcript to the department along with the application
v. Production of a release letter from candidate's place of work (if applicable) at registration point.

*Graduation Requirements*

i. Students are required to take 33 credits in Educational psychology, 9 credits in foundation courses, 6 credits in other related areas as advised by the department and 12+ Thesis credit hours. This makes a total of 57 credits to qualify for graduation;
ii. Successfully passing all required courses and successfully defending a thesis on an approved topic.

*Course Structure*

| Semester | Course Code | Course Title | Credit | Status |
|---|---|---|---|---|
| **First** | EDUC 801 | Educational Statistics 1 | 3 | Core |
| | EDUC 803 | Research Methods | 3 | Core |
| | EDPS 801 | Human Learning | 3 | RC |
| | EDPS 803 | Memory | 3 | R |
| | EDPS 811 | Adolescence | 3 | RC |
| | EDPS 805 | Intelligence | 3 | R |
| | EDPS 813 | Test and Measurement I | 3 | RC |
| | EDPS 881, 883 | Seminar I & III | 1 | |
| | EDPS 891, 893 | Research/Thesis I & III | 4/Semester | |
| | | **Elective** | 3 | S |
| **Second** | EDUC 802 | Educational Statistics II | 3 | Core |
| | EDUC 803 | Motivation and Emotion | 3 | R |
| | EDPS 802 | Developmental Psychology | 3 | R |
| | EDPS 806 | Creativity | 3 | R |
| | EDPS 814 | Evaluating Psychological Research | 3 | R |
| | EDPS 808 | Personality | 3 | R |
| | EDPS 813 | Test and Measurement II | 3 | R |
| | EDPS 882, 884 | Seminar II & IV | 1 | |
| | EDPS 892, 894 | Research/Thesis II & IV | 4/Semester | |
| | | **Elective** | 3 | S |

### 4.3.2 Ph.D. Educational Psychology

*Admission Requirements*

(i) Masters in Educational Psychology or in related areas in the field of psychology, such as M.Ed. or M.Sc. Child Psychology, Test and Measurements, or Measurement and Evaluation, etc. (such related areas will be examined and determined by the department).
(ii) Applicants must have a C.G.P.A. of 3.50 and above in courses taken at the Masters level from recognised universities.
(iii) All Applicants will be required to appear for pre-admission screening examination.
(iv) Candidates' Academic Transcript must be made available prior to the screening examination.
(v) Production of release letter from candidate's place of work (where applicable) at point of registration.

*Graduation Requirements*

For a candidate to be awarded the Doctorate degree in Educational Psychology, he/she must:

I satisfy all the requirements of the School of Postgraduate Studies.
ii Take and pass all the prescribed examinations.
iii Write and successfully defend a dissertation at both internal and external examinations

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit | Status |
|---|---|---|---|
| EDUC 901 | Educational thought and practice | 3 | Core |
| EDUC 903 | Computer and Data processing | 3 | Core |
| EDPS 901 | Research Evaluation | 3 | SP |
| EDPS 903 | Behaviour Management I | 3 | SP |
| EDPS 981,983 & 985 | Seminar I, III & V | 1/Semester | |
| EDPS 991,993 & 995 | Research/Dissertation I, III & V | 6/Semester | |

**Semester2**

| Course Code | Course Title | Credit | Status |
|---|---|---|---|
| EDUC 902 | Advanced Educational Statistics | 3 | Core |
| EDPS 982, 984 & 986 | Seminar II, IV & VI | 1/Semester | SP |
| EDPS 904 | Behaviour Management II | 3 | SP |
| EDPS 906 | Practicum | 3 | SP |
| EDPS 992, 994 & 996 | Research/Dissertation II, IV & VI | 6/Semester | |

### 4.3.3. M. Ed Guidance and Counseling

*Admission Requirements*

To qualify for the admission in to the Master's programme of Guidance and Counseling, the candidate must possess any of the following qualifications.

i A First Degree in Guidance and Counseling with minimum of 2nd class lower (i.e. B.Ed. Guidance and Counseling 2:2.
ii A First Degree with minimum of 2:2 with postgraduate Diploma in Guidance and Counseling with minimum of Merit Pass.
iii A First Degree in Education with Minimum of 2:2.
iv A First Degree in B.A/B.Sc. with minimum of 2:2 and PGDE with minimum of Merit Pass.
v All Applicants will be required to appear for pre-admission screening examination.
vi Production of release letter from candidate's place of work at point of registration.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core Courses** | | |
| 1. | EDUC 801: Educational statistics | 3 Credits Unit |
| 2. | EDUC 803: Educational research | 3 Credits Unit |
| 3. | EDUC 881, 883 Seminar I & III | 1/Semester |
| 4. | EDUC 891, 893 Research/Thesis I & III | 4/Semester |
| **Specialization Courses** | | |
| 1. | EDGC 801: Principles and Practice of Guidance | 3 Credits Unit |
| 2. | EDGC 803: Counseling Theory and Techniques | 3 Credits Unit |
| 3. | EDGC 805: Communication Process | 3 Credits Unit |
| 4. | EDGC 807: Organization and Adm. of Guidance Prog. | 3 Credits Unit |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core Courses** | | |
| 1. | EDUC 802: Educational Statistics | 3 Credits Unit |
| 2. | EDUC 882, 884 Seminar I & III | 1/Semester |
| 3. | EDUC 892, 894 Research/Thesis I & III | 4/Semester |
| **Specialization Courses** | | |
| 1. | EDGC 802: Theories and practice of Vocational Guidance | 3 Credits Unit |
| 2. | EDGC 804: Psychological Testing | 3 Credits Unit |
| 3. | EDGC 806: Research in Guidance and Counseling | 3 Credits Unit |

4. EDGC 808: Practicum in Counseling 3 Credits Unit

**Electives**

The students are required to take one from the following elective courses

i SOLG 814: Currents Trends in the Sociology of Mental Health 3 Credits Unit
ii EDAP 808: Personnel Management 3 Credits Unit

### 4.3.4 Ph.D. Guidance and Counseling

*Admission Requirements*

To be qualified for admission, the candidate most possessed the following academic and behavioral qualifications;

i A master's degree in Guidance and Counseling with a thesis component and at least B Grades in a 75% course work in which 75% of the grades must be B and above (CGPA 3.50 and above).
ii All candidates will have to be assessed through of some psychological tests, coupled with intensive background information on them before they are admitted. Irrespective of their level in the programme, any candidate found with behavioral disorder that will damage the counseling profession will be withdrawn.
iii Any Ph.D. student whose score is below 60% in all the first semester courses cannot proceed with Ph.D. study in counseling.
iv All applicants will be required to appear for pre-admission screening examination.
v Production of release letter from candidate's place of work (where applicable) at point of registration.

*Graduation Requirements*

For a student to be awarded with the Doctorate degree in Guidance and Counseling, he/she must;

i satisfy all the requirements of school of postgraduate studies.
ii take and pass all the courses
iii write and successfully defend the dissertation both internally and externally.

*Course Structure*

**Semester 1:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core Course** | | |
| EDUC 901: | Educational Though and Practice | 3 Credit Unit |
| EDUC 903: | Computer and Data Processing | 3 Credit Unit |
| EDUC 981,983,985: | Seminar I, III & V | 1 CU/Semester |
| EDUC 991,993, 995: | Research/Dissertation I, III & V | 6 CU/Semester |
| **Courses** | | |
| EDGC 901: | Personality theory and assessment | 3 Credit Unit |
| EDGC 903: | Marital, Family and Sex Therapy | 3 Credit Unit |
| EDGC 905: | Seminar in Guidance and Counseling | 3 Credit Unit |
| EDGC 909: | Interviewing process and Practice | 3 Credit Unit |
| **Elective Courses** | | |
| Two Elective Courses are required | | |
| EDGC 911: | Counseling for Creative Development | 3 Credit Unit |
| EDPS 901: | Behavioral Management I | 3 Credit Unit |
| EDGC 913: | Cross Cultural Counseling | 3 Credit Unit |
| EDGC 915: | Psychopathology of Childhood and Adolescence | 3 Credit Unit |
| EDGC 917: | Applied Counseling Problems Gender Issues | 3 Credit Unit |
| EDGC 919: | Aid Counseling and Nutrition Therapy | 3 Credit Unit |

**Semester 2:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core Course** | | |
| EDUC 902: | Advance Educational Statistics | 3 Credit Unit |

EDUC 982,984,986: Seminar II, IV & VI 1 CU/Semester
EDUC 992,994, 996: Research/Dissertation II, IV & VI 6 CU/Semester

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**Courses**
EDGC 902: Advance Individual Appraisal 3 Credit Unit
EDGC 904: Experimental Research Design 3 Credit Unit
EDGC 906: Programme Development in Counseling 3 Credit Unit
EDGC 908:Trands and Issues in Contemporary Counseling in Nigeria 3 Credit Unit
EDGC 910: Clinical Experiment/Practicum 6 Credit Unit

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**Elective Courses**
Two Elective Courses are required
EDGC 912: Values Clarification Counseling 3 Credit Unit
EDPS 902: Behavioral Management II 3 Credit Unit
EDGC 914: Marketing of Counseling Programme 3 Credit Unit
EDGC 916: Crises Intervention and Rehabilitation Counseling 3 Credit Unit
EDGC 918: Religious Counseling and Children Behavior Problem 3 Credit Unit

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## 4.4 DEPARTMENT OF LIBRARY AND INFORMATION SCIENCES

*Postgraduate Programmes*
1. PhD Library Science
2. PhD Information Science
3. M.Phil. Information Science
4. Masters of Library Science (MLS)
5. Masters in Information Management (MIM)
6. Masters in Archives and Record Management (MARM)
7. Masters in Information Science (M.SC)
8. Postgraduate Diploma in Information Management (PGDIM)

### 4.4.1 Ph.D. Library Science

*Admission Requirements*
1. Masters' degree in Library Science with a minimum CGPA of 3.50.

*Graduation Requirements*
a. Course Work
To be eligible for the award of the Ph.D. degree, a student must pass all the designated courses

b. Research
The award of the degree will be dependent on a successful completion of the dissertation and the passing of oral defense.

c. Seminar/Examination
Successfully complete a dissertation project and pass the oral defense.

*Course Structure*
**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LIBS 901 | Information Business and Entrepreneurship | 3 |
| LIBS 903 | Trends in Information Systems and Services | 3 |
| LIBS 911 | Information Retrieval Research | 3 |
| LIBS 913 | Global Information Systems and Services | 3 |
| LIBS 915 | Advance Information Technology | 3 |
| LIBS 921 | Libraries and the Research community | 3 |
| LIBS 923 | Childhood and Children's Literature | 3 |
| LIBS 931 | Advance Archives and Records Management | 3 |

| | | |
|---|---|---|
| LIBS 933 | Archives and Records in Contemporary Societies | 3 |
| LIBS 941 | Publishing and the dynamics of Culture | 3 |
| LIBS 943 | Publishing, Power and Privilege | 3 |
| LIBS 951 | Mass Media in Africa | 3 |
| LIBS 953 | Multimedia Information Systems | 3 |
| LIBS 955 | Knowledge Management | 3 |
| LIBS 981, 983, 985 | Seminar (1/semester) | 1/Semester |
| LIBS 991, 993, 995 | Research/Dissertation (6/semester) | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LIBS 900 | Information Policy | 3 |
| LIBS 902 | Information Theory | 3 |
| LIBS 910 | Information Database and Databank Management | 3 |
| LIBS 912 | Network and Network Management | 3 |
| LIBS 914 | Advance Telecommunications | 3 |
| LIBS 920 | Electronic Libraries | 3 |
| LIBS 922 | Libraries and the Democratic Systems | 3 |
| LIBS 924 | Rural Community Libraries | 3 |
| LIBS 930 | Document Analysis | 3 |
| LIBS 932 | Information Technology in Record Management | 3 |
| LIBS 934 | Museums and Art Galleries | 3 |
| LIBS 940 | Publishing and the Intellectual Tradition | 3 |
| LIBS 942 | Publishing in Developing Countries | 3 |
| LIBS 944 | Trends in Publishing | 3 |
| LIBS 950 | History of the Book | 3 |
| LIBS 952 | Graphic Art and Visual Communication | 3 |
| LIBS 954 | Digital World and Cyberspace | 3 |
| LIBS 982, 984, 986 | Seminar (1/semester) | 1/Semester |
| LIBS 992, 994, 996 | Research/Dissertation (6/semester) | 6/Semester |

Departmental Courses: These are a set of courses, which at the doctoral level, form the core of the area of specialization.

*Seminars*
Students are expected to present a seminar each semester in their areas of specialization and research.

**4.4.2 M.Phil. Information Science**
*Admission Requirement*
A candidate seeking admission to the programme must have obtainedany of the relevant professional Master's degreewith not less than GPA of 3.5 in addition to an undergraduate degree in Library and Information Science.
*Graduation Requirements*
1. To be eligible for progression to a PhD degree, a student must pass all the designated courses, obtained CGPA of not less than 3.50 as well as successfully defend a relevant Thesis.

b. Seminar/Examination
Each student is expected to make a seminar presentation on the progress of his/her research work each semester.

**4.4.3 Master of Library Science (MLS)**
*Admission Requirement*
At least a second class undergraduate degree in Library and Information Science, PGDIM or any degree of the Ahmadu Bello University, or any other degree from recognized university. Candidates without a Library Science background would be required to offer some remedial courses.

*Graduation Requirements*
a. Course Work
1. To be eligible for the award of Masters of Library Science (MLS) degree, a student must pass all the designated courses. These consist of 8 cu of core Faculty course; 8 cu of core Departmental courses; 12 cu of specialisation courses and 4cu of electives.

b. Research
The award of the degree will be dependent on a successful completion of the thesis and the passing of oral defense.

c. Seminar/Examination
Each student is expected to make a seminar presentation on the progress of his/her research work each semester.

**4.4.3 Master of Information Science (MIS)**
Entry and graduation requirements are similar to those of the MLS programme. A credit in O level mathematics is however an additional requirement. Candidates with the relevant Postgraduate Diploma qualification are eligible for consideration.

**4.4.4 Master of Achieves and Record Management (MARM)**
Entry and graduation requirements are similar to those of the MLS programme. Candidates with the relevant Postgraduate Diploma qualification are eligible for consideration.

**4.4.5 Master of Information Management (MIM)**
The Master in Information Management provides a professional qualification in information management for people who want to enter a challenging field where the latest technological developments provide effective and timely information services.

*Admission Requirements*
Bachelor degree with minimum of 2.2 from an accredited university in Library and Information Science, Mass Communication, Business Administration, Accounting and Computer Science, economics, sociology, political science and postgraduate diploma in Information Management

*Graduation Requirement*
a. Course Work
A student is required to earn a minimum of thirty two credit hours in order to graduate

b. Research
The graduating student will have conducted the attachment work and project writing.

c. Seminar/Examination
The graduating student will have taken and passed all the core course units, the requisite elective courses.

*Course Structure*
**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Faculty Core Courses** | | |
| EDUC 801 | Statistics I | 2 |
| EDUC 802 | Statistics II | 2 |
| EDUC803 | Research Methods I | 2 |
| **Departmental Core Courses** | | |
| LIBS 801 | Information Resource Development | 3 |
| LIBS 803 | Data Communication | 3 |
| LIBS 881, 883 | Seminar I & III (1/semester) | 1/semester |
| LIBS 891, 893 | Research/Thesis I & III (4/semester) | 4/semester |
| **Specialization Core Courses** | | |
| **Master of Library Science** | | |
| LIBS 800 | Research Method II | 3 |
| LIBS 802 | Information Resource Management | 3 |
| LIBS 804 | Management Theories and Practice | 3 |
| **Master of Information Science** | | |
| LIBS 811 | Indexing and Abstracting | 3 |
| LIBS 813 | Information Systems Analysis and Design | 3 |
| LIBS 815 | Information Network and Networking | 3 |
| LIBS 817 | Info metrics | 3 |
| **Master of Achieves and Record Management** | | |
| LIBS 831 | Archives and Records Maintenance, Preservation and Protection | 3 |

| | | |
|---|---|---|
| LIBS 833 | Oral Archives | 3 |
| LIBS 835 | Legal Aspects of Archives and Records Management | 3 |
| **Master of Information Management** | | |
| LIBS | Information Policies | 3 |
| LIBS | Information Services Personnel | 3 |
| LIBS | Research Principles and Analysis | 3 |
| LIBS | Information Resource Developments | 3 |
| **Electives** (At discretion of supervisory committee) | | |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| LIBS 800 | Research Methods II | 3 |
| LIBS 882, 884, | Seminar II & IV | 1/semester |
| LIBS 892, 894, | Research/Thesis II & IV | 4/semester |
| **Specialisation Core Courses** | | |
| **Master of Library Science** | | |
| LIBS 800 | Research Method II | 3 |
| LIBS 802 | Information Resource Management | 3 |
| LIBS 804 | Management Theories and Practice | 3 |
| **Master of Information Science** | | |
| LIBS 810 | History and Theory of Information Science | 3 |
| LIBS 812 | Computers in Information Management | 3 |
| LIBS 814 | Information Systems and Services Evaluation | 3 |
| LIBS 816: | Management Information Systems | |
| **Master of Achieves and Record Management** | | |
| LIBS 830 | Archives and Record Management | 3 |
| LIBS 832 | Records and Manuscript Indexing | 3 |
| UBS 834 | Records and Archives Tradition Worldwide | 3 |
| **Master of Information Management** | | |
| LIBS 878 | Financial Information Management | 2 |
| LIBS 8 | Independent Study | 2 |
| **Electives** | | |
| LIBS 867 | Database Management | 2 |
| LIBS 8 | Multimedia Systems | 2 |
| LIBS 8 | Online Information Industries | 2 |
| LIBS 8 | Information Consulting | 2 |
| LIBS 8 | Information Services and Users | 2 |
| LIBS 8 | Preservation Management | 2 |
| LIBS 879 | Business Information Services | 2 |
| LIBS 867 | Database Management | 2 |
| LIBS 8 | Multimedia Systems | 2 |
| LIBS 8 | Online Information Industries | 2 |
| LIBS 8 | Information Consulting | 2 |
| LIBS 8 | Information Services and Users | 2 |
| LIBS 8 | Preservation Management | 2 |
| LIBS 879 | Business Information Services | 2 |

**4.4.6 Postgraduate Diploma in Information Management (PGDIM)**

*Admission Requirements*

(i) Degree with minimum of 2.2
(ii) Third class degree with minimum of 3 years post graduate experience
(iii) Higher National Diploma (HND) with credit plus 2 years post graduate experience
(iv) Any other equivalent qualifications.

*Graduation Requirement*

Course Work

A student is required to earn a minimum of thirty credit hours in order to graduate. The graduating student will have taken and passed all the core course units, the requisite elective courses.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core** | | |
| LIBS 701 | Information Technology in InformationStorage and Retrieval | 2 |
| LIBS 703 | Computer and Computer Systems in Information Work | 2 |
| LIBS 705 | Information Organization | 2 |
| LIBS 707 | Research Methods in Information Management | 2 |
| LIBS 709 | Management Information System | 2 |
| **Electives** | | |
| LIBS 711 | Telecommunication | 2 |
| LIBS 713 | Protection and Preservation of Information Sources | 2 |
| LIBS715 | Organization and Institutional Culture | 2 |
| LIBS 71 7 | Humanities Information Sources and Services | 2 |
| LIBS 71 9 | Scientific & Technological Information Sources and Systems | **2** |
| LIBS 781, 783 | Seminar I & III | 1/semester |
| LIBS 791, 793 | Research/Project I & III | 3/semester |

**Semester II**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LIBS 702 | Computer Software and Computer Use | 2 |
| LIBS 708 | Reference and Information Work | 2 |
| **Electives** | | |
| LIBS 710 | Budgeting and Personnel Management in Information Work | 2 |
| LIBS 712 | Database Construction and Management | 2 |
| LIBS 714 | Law and Legality in Information Work | 2 |
| LIBS 716 | Social Science Information Sources and Systems | 2 |
| LIBS 718 | Publishing and the Book Trade | 2 |
| LIBS 720 | Introduction to Records and Archives Management | 2 |
| LIBS 722 | Intelligence Information Systems and Services | 2 |
| LIBS 724 | Information Business | 2 |
| LIBS 782, 784 | Seminar II & IV | 1/semester |
| LIBS 792, 794 | Research/Project II & IV | 3/semester |

## 4.5 DEPARTMENT OF PHYSICAL AND HEALTH EDUCATION

### 4.5.1 Postgraduate Diploma in Sports Management (PGDSM)

*Admission Requirements:*

1. A first degree in Physical and Health Education and Physical Education with a minimum of second class honours plus 2 years post qualification experience in sport related field.
2. A first degree in Physical and Health Education and Physical Education with a third class plus 3 years post qualification experience in sport related field.
3. A first degree in Management Arts, International Studies, Mass Communication and other social sciences with 2 years post qualification experience in sport related field.

*Graduation Requirement:*

(a) Course work: A student is required to earn a minimum of 48 credit hours to graduate.
(b) Research
(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Course Titles | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| PHED 701 | Concepts of Management | 2 |

| | | |
|---|---|---|
| PHED 703 | Foundations of Sport-Business Administration | 2 |
| PHED 705 | Basic Theories of Sport Management | 2 |
| PHED 711 | Strategy, Conflict and Management in Sport Organizations | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED 707 | Legal Aspects of Sport Management | 2 |
| PHED 713 | Power and Politics in Sport Organisation | 2 |
| PHED 715 | Introduction to Research Methodology in Sport Management | 2 |
| PHED 781 | Seminar | 1/Semester |
| PHED 791 | Research/Project | 3/Semester |
| **PART C: Elective Courses:** | | |
| PHED 723 | Parks, Recreation, Tourism and Facilities management | 2 |
| PHED 725 | Statistics | 2 |
| PHED 716 | Management of Culture of Sport Organisations | 2 |
| PHED 721 | Theory and Practice of Games | 2 |
| | | |

**Semester 2:**

| Course Code | Course Titles | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| PHED 702 | Foundations of Sport Management and Sports Studies | 2 |
| PHED 704 | Professional Preparation and Careers in Sport Management | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED 706 | Sports Marketing, Promotion and Public Relations | 2 |
| PHED 710 | French | 2 |
| PHED 712 | Human Resource Management in Sport Organisations | 2 |
| PHED 714 | Leadership and Sport Organisations | 2 |
| PHED 708 | Internship | 4 |
| PHED 982 | Seminar | 1/Semester |
| PHED 792 | Research/Project | 3/Semester |
| **PART C: Elective Courses:** | | |
| PHED 716 | Management of Culture of Sport Organisations | 2 |
| PHED 720 | Management of Information Systems | 2 |
| PHED 722 | Fitness programme Management | 2 |
| | | |

### 4.5.2 M.Sc. Exercise and Sports Sciences

*Admission Requirements*

(a) B.Ed., B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in Physical and Health Education.

(b) B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in Human Physiology, Biochemistry, Pharmacology, or any other specialization considered as relevant by the Department.

*Graduation Requirement*

(a) Course Work

Total minimum credit units for M. Ed or M.Sc. 30 credit units
Educational core courses 6 credit units
Departmental core courses 6 credit units
Specialization courses 14 credit units
Out of the 14, 4 CU would be taken from other Departments
depending on the topic of research and specialization area 9credit units

(b) Research
Thesis
(c) Seminar/Examination

*Course Structure*
**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC801 | Educational Statistics I | 2 |
| EDUC803 | Educational Research | 2 |
| PHED801 | Advanced Tests and Measurements in Physical Health Education | 2 |
| PHED803 | Advanced Motor Learning and Human Performance | 2 |
| **Part B: Area of Specialisation** | | |
| PHED805 | Physiology of Exercise II | 2 |
| PHED807 | Organic Science as Applied to Physical Education and Sports | 2 |
| PHED811 | Advanced Biomechanics and Kinesiology | |
| PHED815 | Exercise and Body Fluids | |
| PHED881, 883, 885 | Seminar I, III, V | 1/Semester |
| PHED891, 893, 895 | Research/Thesis I, III, V | 4/Semester |
| **PART C: Elective Courses:** | | |
| | Electives from Other Departments | 11 |
| | | |

**Semester 2:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC802 | Educational Statistics II | 2 |
| PHED802 | Research Methods in Physical Health Education | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED 804 | Physiology of Exercise I | 2 |
| PHED810 | Physiology of Nutrition and Physical Fitness | 2 |
| PHED812 | Physiological Basis of Muscular Activity | 2 |
| PHED814 | Physiology of Conditioning and Health | 2 |
| PHED882,884, 886 | Seminar II, IV, VI | 1/Semester |
| PHED892,894, 896 | Research/Thesis II, IV, VI | 4/Semester |
| **PART C: Elective Courses:** | | |
| | Electives from Other Departments | 11 |
| | | |

### 4.5.3 M.Sc. Sports Management

*Admission Requirements*
(a) B.Ed., B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in physical Education, Physical and Health Education.
(b) B.A., B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in Sociology, Business Administration, Law, Physiology, Accounting, Mass Communication, Journalism, Political Science, Economics, or any other specialization considered as relevant by the Department.

*Graduation Requirement*
(a) Course Work: As for M.Sc. Exercise and Sports Sciences
(b) Research
(c) Seminar/Examination

*Course Structure*
**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|

| | | |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC801 | Educational Statistics I | 2 |
| EDUC803 | Educational Research | 2 |
| PHED801 | Advanced Tests and Measurements in Physical Health Education | 2 |
| PHED803 | Advanced Motor Learning and Human Performance | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED829 | Advanced Sport Psychology | 2 |
| PHED831 | Advanced History of Sports | 2 |
| PHED833 | International Sports | 2 |
| PHED830 | Advanced Sports Coaching Strategies | 2 |
| PHED881, 883, 885 | Seminar I, III, V | 1/Semester |
| PHED 891, 893, 895 | Research/Thesis I, III, V | 4/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | 11 |
| | | |

**Semester 2:**

| Course Code | Courses | Credit Unit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC802 | Educational Statistics II | 2 |
| PHED802 | Research Methods in Physical Health Education | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED828 | Advanced Sports Administration and Planning | 2 |
| PHED830 | Advanced Sports Coaching Strategies | 2 |
| PHED832 | Planning and Facilities for Sports | 2 |
| PHED834 | Advanced Sports Sociology | 2 |
| PHED816 | Seminar | 2 |
| PHED808 | Physiological Basis of Physical Activity and Coaching | |
| PHED830 | Advanced Sports Coaching Strategies | 2 |
| PHED882, 884, 886 | Seminar II, IV, VI | 1/Semester |
| PHED 892, 894, 896 | Research/Thesis II, IV, VI | 4/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | 11 |

**4.5.4 M.Ed. Physical Education**

*Admission Requirements*

(a) B.Ed., B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in physical Education or Physical and Health Education.

(b) Any other undergraduate degree considered as relevant by the Department with a minimum of second class lower (2.2) degree classification.

*Graduation Requirement*

(a) Course Work: As for M.Sc. Exercise and Sports Sciences
(b) Research
(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC801 | Educational Statistics I | 2 |
| EDUC803 | Educational Research | 2 |
| PHED801 | Advanced Tests and Measurements in Physical Health Education | 2 |
| PHED803 | Advanced Motor Learning and Human Performance | 2 |

| | | |
|---|---|---|
| **Part B: Area Of Specialisation** | | |
| PHED835 | Advanced History of Physical Education | 2 |
| PHED837 | Physical Education Methodology and Supervision | 2 |
| PHED839 | Physical Education, Sports and Society | 2 |
| PHED881,883,885 | Seminar I, III, V | 1/Semester |
| PHED891,893,895 | Research/Thesis I, III, V | 4/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | 11 |
| | | |

**Semester 2:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC802 | Educational Statistics II | 2 |
| PHED802 | Research Methods in Physical Health Education | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED836 | Issues in Physical Education Administration and Planning | 2 |
| PHED838 | Applied Psychology and Physical Education | 2 |
| PHED816 | Seminar | 2 |
| PHED840 | Trends in Physical Education Curriculum | 2 |
| PHED882,884,886 | Seminar II, IV, VI | 1/Semester |
| PHED892,894,896 | Research/Thesis II, IV, VI | 4/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | 11 |

### 4.5.5 M.Ed. Health Education

*Admission Requirements*

(a) B.Ed., B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in physical Education or Physical and Health Education.

(b) B.Ed., B.Sc. or its equivalent with a minimum of second class lower (2.2) degree classification in Home Economics, Public Health Education or any other specialization considered as relevant by the Department.

*Graduation Requirement*

(a) Course Work

As for M.Sc. Exercise and Sports Sciences

(b) Research

(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC801 | Educational Statistics I | 2 |
| EDUC803 | Educational Research | 2 |
| PHED801 | Advanced Tests and Measurements in Physical Health Education | 2 |
| PHED803 | Advanced Motor Learning and Human Performance | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED817 | Care and Prevention of Athletic Injuries | 2 |
| PHED809 | Health and Gerontology | 2 |
| PHED819 | School Health Education Administration | 2 |
| PHED821 | Issues to Health Education programme | 2 |
| PHED823 | Trends in School Health Education Curriculum | 2 |
| PHED825 | Tropical Diseases, Control and Health Education Programmes | 2 |

| | | |
|---|---|---|
| PHED827 | Sanitation and Health | 2 |
| PHED881,883,885 | Seminar I, III, V | 1/Semester |
| PHED891,893,895 | Research/Thesis I, III, V | 4/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | 11 |
| | | |

**Semester 2:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC802 | Educational Statistics II | 2 |
| PHED802 | Research Methods in Physical Health Education | 2 |
| **Part B: Area Of Specialisation** | | |
| PHED716 | Seminar | 2 |
| PHED718 | Community Health Education Programme | 2 |
| PHED720 | School Health Education Methodology | 2 |
| PHED722 | Comparative School and Public Health Education Programme | 2 |
| PHED724 | Health Laws and Government Policies | 2 |
| PHED726 | Therapeutic Recreation Programme | |
| PHED882,884,886 | Seminar II, IV, VI | 1/Semester |
| PHED892,894,896 | Research/Thesis II, IV, VI | 4/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | 11 |

### 4.5.6 Ph.D.Exercise and Sports Science

*Admission requirement*

(a) M.Ed., M.Sc., or its equivalent in Exercise and Sports Sciences with a minimum CGPA of 3.50.

(b) Any Master's degree considered as relevant by the Department. In this case, the Department would determine the makeup courses that the candidate would have to take which would not count towards graduation.

*Graduation Requirement*

(a) Course Work – 60 Credit Units of course work.

(b) Research

(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC901 | Advanced Statistics | 3 |
| EDUC903 | Educational Thoughts and Practice | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED907 | Technosports and Training Programmes | 3 |
| PHED981,983,985 | Seminar I, III, V | 1/Semester |
| PHED991,993,995 | Research/Thesis I, III, V | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

**Semester 2:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC902 | Computer and Data Processing | 3 |
| PHED902 | Advanced Respiratory Physiology in Exercise and Sports Training | 3 |
| PHED910 | Internship | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED904 | Advanced Nutrition in Exercise and Sports Training | 3 |

| | | |
|---|---|---|
| PHED907 | Technosports and Training Programmes | 3 |
| PHED982,984,986 | Seminar II, IV, VI | 1/Semester |
| PHED992,994,996 | Research/Thesis II, IV, VI | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

**4.5.7 Ph.D.Sports Management**

*Admission requirement*

(a) M.A., M.Sc., M.Ed., or its equivalent in Sports Management, or Organisation and Administration of Sports with a minimum CGPA of 3.50.

(b) Any Master's degree considered as relevant by the Department. In this case, the candidate would be required to take make up courses as determined by the Department, which would not count towards graduation.

*Graduation Requirement*

(a) Course Work – 60 Credit Units.

(b) Research

(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC901 | Advanced Statistics | 3 |
| EDUC903 | Educational Thoughts and Practice | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED907 | Technosports and Training Programmes | 3 |
| PHED909 | Sports Institutional Organization and Development | 3 |
| PHED915 | Advanced Sports Organization | |
| PHED981,983,985 | Seminar I, III, V | 1/Semester |
| PHED991,993,995 | Research/Thesis I, III, V | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

**Semester 2:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC902 | Computer and Data Processing | 3 |
| PHED902 | Advanced Respiratory Physiology in Exercise and Sports Training | 3 |
| PHED910 | Internship | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED906 | Issues in Sports Administration and International Politics | 3 |
| PHED908 | Tourism and Sports Development | 3 |
| PHED982,984,986 | Seminar II, IV, VI | 1/Semester |
| PHED992,994,996 | Research/ThesisII, IV, VI | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

**4.5.8 Ph.D.Physical Education**

*Admission requirement*

(a) M.Ed., M.Sc., or its equivalent in Physical Education

(b) Any Master's degree considered as equivalent by the Department. In this case, the candidate would be required to take make up courses as determined by the Department, which would not count towards graduation.

*Graduation Requirement*

(a) Course Work – 60 Credit Units.
(b) Research
(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Courses | Credit Unit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC901 | Advanced Statistics | 3 |
| EDUC903 | Educational Thoughts and Practice | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED903 | Advanced Research Methods in Physical and Health Education | 3 |
| PHED911 | Advanced Philosophical Basis of Human Movement | 3 |
| PHED917 | Physical Education and Modern Technology | 3 |
| PHED981,983,985 | Seminar I, III, V | 1/Semester |
| PHED991,993,995 | Research/Thesis I, III, V | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

**Semester 2:**

| Course Code | Courses | Credit Unit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC902 | Computer and Data Processing | 3 |
| PHED902 | Advanced Respiratory Physiology in Exercise and Sports Training | 3 |
| PHED910 | Internship | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED912 | Issues in Physical Education Programmes | 2 |
| PHED918 | Professional Issues in Physical Education | 3 |
| PHED982,984,986 | Seminar II, IV, VI | 1/Semester |
| PHED992,994,996 | Research/Thesis II, IV, VI | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

### 4.5.9 Ph.D.Health Education

*Admission requirement*

(a) M.Ed., M.Sc., or its equivalent in Health Education with a minimum CGPA of 3.50
(b) Any Master's degree considered as relevant by the Department. In this case, the candidate would be required to take make up courses as determined by the Department, which would not count towards graduation.

*Graduation Requirement*

(a) Course Work – 60 Credit Units.
(b) Research
(c) Seminar/Examination

*Course Structure*

**Semester 1:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC901 | Advanced Statistics | 3 |
| EDUC903 | Educational Thoughts and Practice | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED903 | Advanced Research Methods in Physical and Health Education | 3 |

| | | |
|---|---|---|
| PHED911 | Advanced Philosophical Basis of Human Movement | 3 |
| PHED913 | Government Policies on Health Education Programme | 3 |
| PHED981,983,985 | Seminar I, III, V | 1/Semester |
| PHED991,993,995 | Research/Thesis I, III, V | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

**Semester 2:**

| Course Code | Courses | CreditUnit |
|---|---|---|
| **Part A: Departmental/Faculty Core Courses** | | |
| EDUC902 | Computer and Data Processing | 3 |
| PHED902 | Advanced Respiratory Physiology in Exercise and Sports Training | 3 |
| PHED910 | Internship | 3 |
| **Part B: Area Of Specialisation** | | |
| PHED912 | Issues in Physical Education Programmes | 2 |
| PHED814 | Issues in International Health Education Programmes | 2 |
| PHED816 | Programmes of Health Education on Special Populations | 3 |
| PHED982,984,986 | Seminar II, IV, VI | 1/Semester |
| PHED992,994,996 | Research/ThesisII, IV, VI | 6/Semester |
| **PART C: Elective Courses** | | |
| | Electives from Other Departments | |

## 4.6 DEPARTMENT OF SCIENCE EDUCATION

### 4.6.1 M.Ed. Science Education

*Admission Requirements:*

Applicants should possess a first degree of Ahmadu Bello University, or any other recognized university in the following:

i) B.Sc. Ed. Biology
ii) B.Sc. Ed. Chemistry
iii) B.Sc. Ed Physics
iv) B.Sc. Ed. Geography
v) B.Ed. Ed. Integrated Science

Or

B.Sc. (Hons.) degree in Biology, Chemistry, Physics, Geography with Post Graduate Diploma in Education

ii) Possess a minimum of a 2.4 on non-classified degree Cumulative Grade Point Average (CGPA) on the 5.0 Scale, or classified degree on a minimum of second class lower.

iii) In limited cases, applicant with a 3rd class degree in science education with a Post Graduate Diploma (PGD) in relevant area may be considered.

*Graduation Requirements*

- After first registration with the School of Postgraduate Studies, a full –time student shall pursue the studies and Thesis Research for not less than (3) semesters and not more than Four (4) semesters for award of the degree.
- From the First Semester, a student shall be permitted to continue with the research and thesis under approved title and supervisors.

*Course Structure*

**Semester 1:**

| SN | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1 | EDUC 801 | Statistical Methods 1 | 3 |
| 2 | EDUC 803 | Educational Research Methods | 3 |
| 3 | EDSE 801 | Foundations of Science Education | 3 |
| 4 | EDSE 803 | Laboratory Design | 3 |
| 5 | EDSE 881,883 | Research Seminar | 1/Semester |
| 6 | EDSE 891,893 | Research/Thesis | 4/Semester |

| | | | |
|---|---|---|---|
| | | | |

**Semester 2:**

| SN | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1 | EDUC 802 | Statistical Methods 1I | 3 |
| 2 | EDSE 802 | Science and Society | 3 |
| 3 | EDSE 804 | Curriculum Trends in Science Education | 3 |
| 4 | EDSE 882,884 | Research Seminar | 1/Semester |
| 5 | EDSE 892,894 | Research/Thesis | 4/Semester |

In addition to the courses listed above, specialization courses would be taken as follows:
Students are expected to offer three 400 level courses in the appropriate department in the Faculty of Science

**4.6.2 Doctor of Philosophy (Ph.D.) in Science Education**

*Admission Requirement:*

Applicants must:

i) Possess a Master's degree in Science Education.

ii) A master's degree in a relevant Science subject area plus the minimum equivalent of a postgraduate certificate in Education. Candidates in this category would however, be required to take appropriate master's courses to beef up their background in this area.

*Graduation Requirement for the Award of Ph.D. in Science Education*

- After first registration, a full –time student for the degree of Ph.D. in Science Education shall pursue his /her studies and dissertation for not less than (4) semesters and not more than Six (6) semesters.
- For students registered as part – time he /she shall pursue the studies and Dissertation for not less than six (6) semesters and not more than (10) semesters for the award of the degree.

*Course Structure*

**Semester 1:**

| SN | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1 | EDUC 901 | Advanced Statistics | 3 |
| 2 | EDUC 903 | Educational Thoughts and Practices | 3 |
| 3 | EDSE 981,983,985 | Research Seminar I, III &V | 1/Semester |
| 4 | EDSE 991,993,995 | Research/Dissertation I, III & V | 6/Semester |
| 5 | | | |

**Semester 2:**

| SN | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1 | EDUC 902 | Data Processing in Education | 3 |
| 2 | EDSE 982,984,986 | Research Seminar In Science Education | 1/Semester |
| 3 | EDSE 992,994,996 | Research/Dissertation | 6/Semester |

**4.6.3M.Ed. Mathematics Education**

*Admission Requirements*

a) For M. Ed Programme, a candidate must have either a minimum of Second Class (Lower Division) degree in Mathematics from a recognized university

b) In limited cases, applicant with a 3rd class degree in Mathematics education with a Post Graduate Diploma (PGD) in relevant area may be considered.

*Course Structures*

There are two programmes available at M. Ed level for students interested in Mathematics Education. The M. Ed (Mathematics Education) is directed more towards the Mathematics Content, while the M. Ed (Curriculum and Instruction in Mathematics) relates more towards curricular issues, but the two have much in common, including the four courses in Mathematics Education. The structures of the programmes are outlined below. Courses are shown in the approximate usual order they are taken but the order is flexible.

**Core Departmental Courses**

**1st Semester**

| | | |
|---|---|---|
| EDUC 801: | Statistical Methods I | 3CR |
| EDUC 803: | Research Methods | 3CR |
| EDME 801: | Advanced History of Mathematics | 3CR |
| EDME 803: | Psychology of Teaching and Learning Mathematics | 3CR |
| EDUC 881, 883 | Seminar (1/Semester) | 1 CR |
| EDUC 891, 893 | Research/Thesis (2/Semester) | 4CR |

**2nd Semester**

| | | |
|---|---|---|
| EDUC 802: | Statistical Methods II | 3CR |
| EDME 802: | Research Methods in Math's | 3CR |
| EDME 804: | Curriculum Development & Evaluation in Math's | 3CR |
| EDUC 882, 884 | Seminar (1/Semester) | 1 CR |
| EDUC 892, 894 | Research/Thesis (2/Semester) | 4CR |

**4.6.4 Ph.D.Math's Education**

For Ph.D. Programme, a candidate must have M. Ed/M.Sc. (Ed) from a recognized University.

The Ph.D. programme in Mathematics Education is also through course work and research. The courses are:

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 901 | Advanced Statistics | 3 |
| EDUC 903 | Educational Thought and Practice | 3 |
| EDUC 981,983,985,987,989 | Seminar I, III, V, VII, IX | 1/Semester |
| EDUC 991,993,995,997,999 | Research/Dissertation I, III, V, VII, IX | 6/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 902 | Data Processing in Education | 3 |
| EDUC 982,984,986,988 | Seminar II, IV, VI, VIII, | 1/Semester |
| EDUC 992,994,996,998 | Research/Dissertation II, IV, VI, VIII, | 6/Semester |

## 4.7 DEPARTMENT OF VOCATIONAL AND TECHNICAL EDUCATION

*Post Graduate Programmes*

M. Ed; Ph.D.Business Education
M. Ed; Ph.D. Home Economics Educ
M.Sc.; Agric Education

**4.7.1M. Ed Business Education**

*Available Options*

a) M. Ed for all Business Education Option
- Accounting
- Marketing
- Office

*Admission Requirements*

a) A good Degree Honours in Business Education with a minimum of second class lower division.
b) Third class Honours degree in Business Education plus five (5) years of experience.
c) In all cases candidates may be expected to undergo a selected process involving test or interview
d) Evidence that they meet the matriculation requirements of the university of their choice. Evidence of discharge NYSC certificate or exemption certificate.

*Graduation Requirement*

To qualify for the award of Master Degree in Business Education, a candidate must pass a minimum of 30 credit units including all electives and compulsory courses as follow;

a) Core and elective (chose from the area of specialization) - 24 Credit units
b) Research project of 6 credit units in area of specialization - 6

**Total 30**

*Course Structure.*

**Accounting Option Courses**

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 801 | Educational Statistics | 2 |
| EDUC 803 | Educational Research | 2 |
| VTEB 801 | Research In Business Education | 3 |
| VTEB 803 | Curriculum Issues In Business Education | 3 |
| VTEB 805 | Auditing | 3 |
| VTEB 807 | Advanced Cost Accounting | 3 |
| VTEB 881 | Seminar | 1/Semester |
| VTEB 891 | Research/Thesis | 4/Semester |
| | **Total** | **18** |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTEB 802 | Advanced Principles Of Business Education | 3 |
| VTEB 804 | Data Processing And Management Information System | 3 |
| VTEB 806 | Managerial Accounting | 3 |
| VTEB 808 | Advanced Cooperate Accounting | 3 |
| VTEB 882 | Seminar | 1/Semester |
| VTEB 892 | Research/Thesis | 4/Semester |
| | Total | 16 |
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTEB 883 | Seminar | 1/Semester |
| VTED 893 | Research/Thesis | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTEB 884 | Seminar | 1/Semester |
| VTEB 894 | Research/Thesis | 4/Semester |

**Marketing Option Courses**

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| VTEB 801 | Research In Business Education | 3 |
| VTEB 803 | Curriculum Issues In Business Education | 3 |
| VTEB 813 | Marketing Research And Analysis | 3 |
| VTEB 815 | Marketing Strategy | 3 |
| EDUC 801 | Educational Statistics | 2 |
| EDUC 803 | Educational Research | 2 |
| VTEB 881 | Seminar | 1/Semester |
| VTEB 891 | Research/Thesis | 4/Semester |
| | **Total** | **18** |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTEB 802 | Advanced Principles Of Business Education | 3 |
| VTEB 804 | Data Processing And Management Information System | 3 |
| VTEB 812 | Marketing Promotion | 3 |
| VTEB 816 | Advanced Instruction In Marketing | 3 |
| VTEB 882 | Seminar | 1/Semester |
| VTEB 892 | Research/Thesis | 4/Semester |
| | Total | 16 |

| | | |
|---|---|---|
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar | 1/Semester |
| VTED 893 | Research/Thesis | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar | 1/Semester |
| VTED 894 | Research/Thesis | 4/Semester |

**Office Option Courses**

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 801 | Educational Statistics | 2 |
| EDUC 803 | Educational Research | 2 |
| VTEB 801 | Research In Business Education | 3 |
| VTEB 803 | Curriculum Issues In Business Education | 3 |
| VTEB 821 | Administrative Office Management | 3 |
| VTEB 825 | Problems in Office Education | 3 |
| VTEB 881 | Seminar | 1/Semester |
| VTEB 891 | Research/Thesis | 4/Semester |
| | **Total** | **18** |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTEB 802 | Advanced Principles Of Business Education | 3 |
| VTEB 804 | Data Processing And Management Information System | 3 |
| VTEB 822 | Organization And Teaching Of Office Practice | 3 |
| VTEB 824 | Coordinate Technique In Office Education | 3 |
| VTEB 882 | Seminar | 1/Semester |
| VTEB 892 | Research/Thesis | 4/Semester |
| | Total | 16 |
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar | 1/Semester |
| VTED 893 | Research/Thesis | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar | 1/Semester |
| VTED 894 | Research/Thesis | 4/Semester |

**4.7.2 Ph.D. Business Education**

*Admission Requirement.*

a) All candidates must have a master's degree in Business Education or its equivalent with high standing from a recognized university.
b) Candidates, upon admission, who are deficient in education and/or Business Education because of their previous academic background will be required to take appropriate make-up courses.
c) Candidates are expected to undergo a selection process involving tests and/or interview.
d) The university matriculation requirement must be satisfied.

*Graduation Requirements*

A candidate must have fulfilled the following conditions to be awarded a Ph.D. degree in Home economics

a) Pass a minimum of 40 credit units, including all the courses as follows
   - 3 core courses of three (3) credit units each - 9
   - A minimum of four (4) courses of three (3) credit units in the area of specialization - 21
   - Ph.D. Thesis of 10 credit units - 10

**Total 40**

*Courses Structure*

**First Semester**

| Course Code | Course Title | CU |
|---|---|---|
| EDUC 901 | Educational Thought and Practice | 3 |
| EDUC 903 | Computer and Data Processing | 3 |
| VTEB 901 | Workshop on Current Issues in Business Education | 3 |
| VTEB 903 | Co-ordination Technique in Marketing Education | 3 |
| VTEB 905 | Co-ordination Technique in Accounting Education | 3 |
| VTEB 907 | Guidance and Counseling in Business Education | 3 |
| VTEB 909 | Comparative Studies in Business Education | 3 |
| VTEB 981,983,985, 987, 989 | Seminar (Doctorate) | 1/Semester |
| VTEB 991,993,995, 997,999 | Research/Dissertation | 6/Semester |
| **Total** | | **54** |

**Second Semester**

| Course Code | Course Title | CU |
|---|---|---|
| EDUC 902 | Advanced Educational Statistics | 3 |
| VTEB 902 | Advanced Semester in Business Education | 3 |
| VTEB 904 | Co-ordination Technique in Office Education | 3 |
| VTEB 906 | Methods and Materials in Business Education | 3 |
| VTEB 908 | Financial Aspect of Higher Education | 3 |
| VTEB 910 | Advanced Entrepreneurship in Business Education | 3 |
| VTEB 982,984,986, 988 | Seminar (Doctorate) | 1/Semester |
| VTEB 992,994,996, 998 | Research/Dissertation | 6/Semester |

### 4.7.3. M. Ed Home Economics Education

*Available Options*

M. Ed for all Home Economics Option
Clothing and Textile
Home management
Family and child Development
Home Economics Education
Foods and Nutrition

*Admission Requirements*

a) A good Degree Honours in Home Economics with a minimum of second class lower division.
b) Third class Honours degree in Home Economics plus a PGD or five (5) years of experience.
c) In all cases candidates may be expected to undergo a selected process involving test or interview
d) Evidence that they meet the matriculation requirements of the university of their choice. Evidence of discharge NYSC certificate or exemption certificate.

*Requirement for Graduation*

To qualify for the award of master degree in Home Economics, a candidate must pass a minimum of 30 credit units including all electives and compulsory courses as follow;

c) Core and elective (chose from the area of specialization) - 24 Credit units
d) Research project of 6 credit units in area of specialization - 6

**Total 30**

*Course Structure.*

**Courses for Home Economics Education Option**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| EDUC 803 | Educational Research | 2 |
| VTED 835 | History & Development of home Economics | 3 |
| VTED 837 | New perspectives in Home Economics | 3 |

| | | |
|---|---|---|
| VTED 839 | Evaluation in Home Economics | 3 |
| VTED 881,883 | Seminar | 1/Semester |
| VTED 891,893 | Research/Thesis | 4/Semester |
| | Total | 15 |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTED 834 | Curriculum Trends in Home Economics | 3 |
| VTED 836 | Advanced Course in Teaching | 3 |
| VTED 840 | Human Relations in Home Economics Curriculum & Instruction | 3 |
| VTED 882, 884 | Seminar | 1/Semester |
| VTED 892, 894 | Research/Thesis | 4/Semester |
| | Total | 16 |
| | **Total Credit Unit Registered** | **31** |
| **Restricted Elective** | | |
| VTED 838 | Principles & Admin in Home Economics | 3 |

**Note:**
Candidates are expected to take one elective (3cu) from any area of Home Economics outside their specialization core

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar | 1/Semester |
| VTED 893 | Research/Thesis | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar | 1/Semester |
| VTED 894 | Research/Thesis | 4/Semester |

**Family and Child Development Option Courses**

**First Semester**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| EDUC 803 | Educational Research | 2 |
| VTED 827 | Family Processes | 3 |
| VTED 829 | Physical, Emotional, Cognitive, Social and Motor Development of the Child | 3 |
| VTED 831 | Parent Child Relationship | 3 |
| VTED 881 | Seminar 1 | 1/Semester |
| VTED 891 | Research/Thesis 1 | 4/Semester |
| | Total | 15 |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTED 826 | History and Theories of Nursery School and Day Care Education | 3 |
| VTED 828 | Cross Cultural Family and Child Rearing Practices | 3 |
| VTED 830 | Administration of Early Childhood Education | 3 |
| VTED 832 | Family Life & Parent Education | 3 |
| **Restricted Elective** | | |
| VTED 854 | Family Finance Management | 3 |
| VTED 882 | Seminar II | 1/Semester |
| VTED 892 | Research/Thesis II | 4/Semester |
| | Total | 19 |
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar III | 1/Semester |
| VTED 893 | Research/Thesis III | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar IV | 1/Semester |
| VTED 894 | Research/Thesis IV | 4/Semester |

**Home Management Option Courses**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| EDUC 803 | Educational Research | 2 |
| VTED 849 | Analysis of activities in home management | 3 |
| VTED 851 | Housing and Family Needs | 3 |
| VTED 853 | Performance And Testing of Household Equipment | 3 |
| VTED 881 | Seminar I | 1/Semester |
| VTED 891 | Research/Thesis I | 4/Semester |
| | Total | 15 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTED 848 | Concepts in Home Management | 3 |
| VTED 850 | Advanced consumer Education | 3 |
| VTED 852 | Advanced Home Furnishing | 3 |
| VTED 854 | Family Financial Management | 3 |
| VTED 882 | Seminar II | 1/Semester |
| VTED 892 | Research/Thesis II | 4/Semester |
| | Total | 16 |
| **Restricted Elective** | | |
| VTED 831 | Parent Child Relationship | 3 |
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar III | 1/Semester |
| VTED 893 | Research/Thesis III | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar IV | 1/Semester |
| VTED 894 | Research/Thesis IV | 4/Semester |

**Clothing and Textiles Option Courses**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| EDUC 803 | Educational Research | 2 |
| VTED 871 | Current Trend in Traditional & Contemporary Textile | 3 |
| VTED 869 | Fashion Industry Promotion & Merch | 3 |
| VTED 865 | History of consume & Textile | 3 |
| VTED 881 | Seminar I | 1/Semester |
| VTED 891 | Research/Thesis I | 4/Semester |
| | Total | **15** |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTED 860` | Theory & Techniques of Basic Pattern Making & Styling | 3 |

| | | |
|---|---|---|
| VTED 868 | Experimental Clothing Construction | 3 |
| VTED 870 | Psychological Asp. of Clothing | 3 |
| VTED 876 | Special Problems in Clothing & Textiles | 3 |
| | **Restricted Elective** | |
| VTED 854 | Family Financial Management | 3 |
| VTED 882 | Seminar II | 1/Semester |
| VTED 892 | Research/Thesis II | 4/Semester |
| | Total | 19 |
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar III | 1/Semester |
| VTED 893 | Research/Thesis III | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar IV | 1/Semester |
| VTED 894 | Research/Thesis IV | 4/Semester |

**Foods and Nutrition Option Courses**
**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| EDUC 803 | Educational Research | 2 |
| BC 818 | Applied Nutrition | 3 |
| VTED 851 | Research Methods in Foods and Nutrition | 3 |
| VTED 853 | Community Nutrition education (Elective) | 3 |
| VTED 857 | Human Nutrition and Health and Diseases | 3 |
| VTED 881 | Seminar I | 1/Semester |
| VTED 891 | Research/Thesis I | 4/Semester |
| | **Total** | **18** |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTED 852 | World Nutrition | 3 |
| VTED 854 | Practicum in Nutrition Education | 3 |
| VTED 856 | Nutrition Throughout Life Cycle | 3 |
| VTED 858 | Organisation & management of Food Service System | 3 |
| PSC 556 | Nutritive Biochemistry | 3 |
| VTED 882 | Seminar II | 1/Semester |
| VTED 892 | Research/Thesis II | 4/Semester |
| | **Restricted Elective** | |
| VTED 859 | Community Nutrition | 3 |
| | Total | 19 |
| | **Total Credit Unit Registered** | **34** |

**YEAR II Semester 1**

| | | |
|---|---|---|
| VTED 883 | Seminar III | 1/Semester |
| VTED 893 | Research/Thesis III | 4/Semester |

**Semester 2**

| | | |
|---|---|---|
| VTED 884 | Seminar IV | 1/Semester |
| VTED 894 | Research/Thesis IV | 4/Semester |

**4.7.4 Ph.D. Home Economics Education**

*Admission Requirement*

a) All candidates must have a master's degree or its equivalent in Home Economics or relevant disciplines from a recognised university.
b) Candidates are expected to undergo a selection process involving tests and/or interview.
c) The university matriculation requirement must be satisfied.

*Duration of the Programme*

a) The Full- Time Ph.D. programme in Home Economics should run for a minimum of four (4) semesters or a maximum of 6 or 10 semesters for Full and Part time programmes respectively.

*Graduation Requirements*

A candidate must have fulfilled the following conditions to be awarded a Ph.D. degree in Home economics

a) Pass a minimum of 40 credit units, including all the courses as follows
   - 3 core courses of three (3) credit units each - 9
   - A minimum of four (4) courses of three (3) credit units in the area of specialization - 21
   - Ph.D. thesis of 24+ credit units - 24+

b) In addition to 1.4 above all candidates should meet the following requirement to qualify for Ph.D.
   1.1st Seminar (Pre data seminar presentation)
   2.A proposal Defence
   3.2nd Seminar (Post data seminar presentation)
   4.Internal Defence
   5.Oral defence of dissertation (External Defence)

*Course Structure*

**PhD Home Economics**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Faculty/Departmental Core Courses** | | |
| EDUC 901 | Advanced Educational Statistics | 3 |
| EDUC 902 | Computer and Data Processing | 3 |
| EDUC 903 | Educational Thought and Practice | 3 |
| VTED 981-989 | Seminar | 1/Semester |
| VTED 991-999 | Research/ Dissertation | 6/Semester |
| **Family and Child Development Option** | | |
| VTED 901 | Developmental Appraisal of Children | 3 |
| VTED 902 | Guidance of Child | 3 |
| VTED 903 | Pre-natal and Infant Development | 3 |
| VTED 904 | Child Development Practicum | 3 |
| VTED 906 | Family Theory (**Elective)** | 3 |
| VTED 907 | Internship in Family & Child Development | 3 |
| **Clothing & Textiles Option** | | |
| VTED 908 | Family Clothing and Textiles Consumption | 3 |
| VTED 909 | Current Trends in Clothing and Textiles | 3 |
| VTED 910 | Methods and Materials in Clothing and Textiles | 3 |
| VTED 911 | Textiles Testing Analysis Education | 3 |
| VTED 912 | Children's Clothing Selection and Consumption | 3 |
| VTED 913 | Clothing and Textile related Industrial Tour | 3 |
| VTED 914 | Advanced Clothing and Tailoring | 3 |
| **Home Economics Education Option** | | |
| VTED 916 | Home Economics Curriculum Development | 3 |
| VTED 917 | Curriculum Evaluation in Home Economics | 3 |
| VTED 918 | Preparation and Organisation of Teaching Aids and Material | 3 |
| VTED 920 | Educational Leadership and Supervision in Home Economics | 3 |
| VTED 921 | Programme Analysis and Design | 3 |
| VTED 922 | Current Issues in Home Economics | 3 |
| VTED 923 | Administration in Home Economics (Elective) | 3 |

| | | |
|---|---|---|
| **Home Management Option** | | |
| VTED 924 | Ergonomic in the Home (Elective) | 3 |
| VTED 925 | Advanced Study of Home Management | 3 |
| VTED 926 | Independent Living | 3 |
| VTED 927 | Housing Economics | 3 |
| VTED 928 | Currents Programme and Trend in Human Resource Development | 3 |
| VTED 929 | Home Economics in the Community | 3 |
| VTED 930 | Family in the Ecological System | 3 |
| **Foods and Nutrition Option** | | |
| VTED 931 | Applied Nutrition Problem | 3 |
| VTED 932 | Advanced Nutrition | 3 |
| VTED 933 | Chemical Methods for Research | 3 |
| VTED 934 | Sensory properties of food | 3 |
| VTED 935 | Foods proteins, Lipids, Carbohydrates | 3 |
| VTED 936 | Modern Views on Nutrition (elective) | 3 |
| VTED 937 | Research Methods in food science | 3 |
| **Elective Courses** (At the discretion of the supervisory committee) | | |
| | | |

**4.7.5 M.Sc. Agricultural Education**

Available Options:

Masters of Science degree in Agricultural Education options:

1. Agricultural Economics and Agricultural Extension Education
2. Animal Science Education
3. Crop Production and Horticulture Education
4. Soil Science Education

*Admission Requirements*

a) A good Degree Honours in Agricultural Education with a minimum of second class lower division.
b) Third class Honours degree in Agricultural Education plus five (5) years of experience or PGD.
c) In all cases candidates may be expected to undergo a selected process involving test or interview
d) Evidence that they meet the matriculation requirements of the university of their choice. Evidence of discharge NYSC certificate or exemption certificate.

*Requirement for Graduation*

To qualify for the award of Master of Science Degree in Agricultural Education, a candidate must pass a minimum of 30 credit units including all Electives and compulsory courses as follow;

e) Core and elective (chose from the area of specialization) - 24 Credit units
f) Research Project of 6 credit units in area of specialization - 6

**Total 30**

*Course Structure.*

**Agricultural Education Option Courses**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| EDUC 803 | Educational Research | 2 |
| | **Vocational Education Courses** | |
| VTED 801 | Contemporary Theories in Vocational Education | 2 |
| VTED 803 | Research Methods in Vocational education | 2 |
| VTED 815 | Curriculum Development in Vocational Education | 2 |
| VTED 813 | Entrepreneurship in Vocational Education | 2 |
| VTED 809 | Admin & Sup. In Vocational Educational | 2 |
| VTED 817 | Policy Issues in Vocational Education | 2 |
| VTAG 827 | Extension Education organization and Administration | 2 |
| VTAG881, 883 | Seminar I & III | 1/Semester |
| VTED891, 893 | Research/Thesis I & III | 4/Semester |
| | **Total** | **22** |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTED 872 | Vocational Education career Development | 3 |
| VTED 804 | Mgt. Facilities in vocational education | 2 |
| VTAG 870 | Rural Development Theory and Practices | 2 |
| VTAG 874 | Farmer Education and Productivity | 2 |
| VTAG | Curriculum Development in Agric. Education | |
| VTAG 882, 884 | Seminar II & IV | 1/Semester |
| VTED 892, 894 | Research/Thesis II & IV | 4/Semester |
| | **Total Credit Unit Registered** | **34** |

**Animal Science Education Option**
**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| VTED 803 | Research Methods in Vocational education | 2 |
| ANSC 815 | Advanced Reproduction Physiology | 2 |
| ANSC 811 | Ruminant Nutrition | 2 |
| ANSC 807 | Dairy Cattle Production | 2 |
| ANSC 809 | Poultry Production | 2 |
| ANSC 805 | Sheep and Goat Production | 2 |
| VTAG 881, 883 | Seminar I & III | 1/Semester |
| VTED 891, 893 | Research/Thesis I & III | 4/Semester |
| | **Total** | **16** |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| ANSC 806 | Beef and cattle Production | 2 |
| ANSC 814 | Monogastric Nutrition | 2 |
| VTED 882, 884 | Seminar II & IV | 1/Semester |
| VTED 892, 894 | Research/Thesis II & IV | 4/Semester |
| | **Total Credit Unit Registered** | **24** |

**Crop Production and Horticulture Option**
**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| VTED 803 | Research Methods in Vocational education | 2 |
| VTAG 813 | Advanced Fruits and Vegetable | 2 |
| AGRN 805 | Physiology of Crop Production | 2 |
| AGRN 817 | Farming System | 2 |
| VTED 881, 883 | Seminar I & III | 1/Semester |
| VTED 891, 893 | Research/Thesis I & III | 4/Semester |
| | **Total** | **12** |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| AGRN 802 | Weed Ecology And Control | 2 |
| AGRN 816 | Crop Ecology | 2 |
| AGRN 818 | Tillage and Crop Production | 2 |
| AGRN 822 | Landscape Gardening and Floriculture | 2 |
| VTED 882, 884 | Seminar II & IV | 1/Semester |
| VTED 892, 894 | Research/Thesis II & IV | 4/Semester |
| | **Total Credit Unit Registered** | **24** |

**Agricultural Economics and Extension Education Option**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| VTED 803 | Research Methods in Vocational education | 2 |
| AERS 801 | Principles of Agric Marketing | 2 |
| VTAG 809 | Agric Extension programme Planning and Evaluation | 2 |
| AERS 821 | Water, Land and national Res. Eons | 2 |
| VTAG 829 | Rural Development Theory and Practice | 2 |
| VTAG 827 | Agric Extension Organisation and Administration | 2 |
| VTAG 881, 883 | Seminar I & III | 1/Semester |
| VTED 891, 893 | Research/Thesis I & III | 4/Semester |
| | **Total** | **16** |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| VTAG 802 | Agric Production Economics | 2 |
| AERS 806 | Advanced Farm Management | 2 |
| AERS 814 | Agric. Business Management | 2 |
| AERS 808 | Agricultural Finance | 2 |
| AERS 820 | Advanced Rural Sociology | 2 |
| VTAG 822 | Teaching and Communication in Extension | 2 |
| VTAG 808 | Agric Marketing and Price Analysis | 2 |
| VTAG 882, 884 | Seminar II & IV | 1/Semester |
| VTED 892, 894 | Research/Thesis II & IV | 4/Semester |
| | **Total Credit Unit Registered** | **34** |

**Soil Science Education Option**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 801 | Educational Statistics I | 2 |
| VTED 803 | Research Methods in Vocational education | 2 |
| SOSC 801 | Soil science | 2 |
| SOSC 803 | Soil Fertility and Fertilizer | 2 |
| SOSC 805 | General Morphology and Classification of Soils | 2 |
| VTED881, 883 | Seminar I & III | 1/Semester |
| VTED 891, 893 | Research/Thesis I & III | 4/Semester |
| | **Total** | **12** |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| EDUC 802 | Educational Statistics II | 2 |
| SOSC 802 | Soil Chemistry and Paedology | 2 |
| SOSC 804 | Management of Tropical Soils | 2 |
| SOSC 858 | Soil Microbiology | 2 |
| SOSC 806 | Forest and Range Soils | 2 |
| VTED882, 884 | Seminar II & IV | 1/Semester |
| VTED 892, 894 | Research/Thesis II & IV | 4/Semester |
| | **Total Credit Unit Registered** | **24** |

# CHAPTER 5

# FACULTY OF ENGINEERING

## 5.1. DEPARTMENT OF AGRICULTURAL ENGINEERING

### 5.1.1 M.Sc. (Soil and Water Engineering) and 5.1.2M.Sc. (Farm Power and Machinery)

*Admission Requirements*:

A candidate with a first degree in a relevant Engineering discipline (such as Agricultural and Bio-resource/bio-system/Environmental/Irrigation Engineering, Mechanical, Civil, Water Resources, Metallurgical and Material Engineering) from a recognized university with minimum of a second class lower division may be admitted provided the university matriculation requirement (UME) is satisfied. However, a candidate whose first degree is not in Agricultural and Bio-resource/bio-system/Environmental/Irrigation Engineering may be asked to take some undergraduate courses to meet up with any deficiency observed from his transcript.

*Graduation Requirements*

(a) Course work:
   (i) For postgraduate course work, the minimum pass score shall be 50%; continuous assessment shall constitute 30% of the examination for each course.
   (ii) Any student who fails in any course shall carryover such a course;
   (iii) Any student whose CGPA falls below 2.50 at the end of any years shall be required to withdraw from the programme.

(b) Thesis
   Before a student is allowed to defend his thesis, he must have passed all courses offered with a minimum score of 50% (Grade C), satisfactorily present a proposal seminar, conduct research, and present a final seminars which is an output of his research findings. The thesis shall be examined in accordance with the postgraduate school requirement. Upon successful defense of the thesis, the student will be recommended to the postgraduate school for graduation.

*Course Structure*

**Soil and Water Engineering option**

**Year 1: Semester 1**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 801 | Advance Agricultural Drainage | 3 |
| AGEN 803 | Advance Hydrology | 3 |
| AGEN 805 | Advance Open Channel Hydraulics | 3 |
| SOCS 807 | Advance Soil Physics | 3 |
| AGRN 821 | Experimental Techniques | 3 |
| SOSC 853 | Soil and Water Plant Relations | 3 |
| *MATH 431 | Numerical Analysis | 2 |
| AGEN 881 | Seminar (1/semester) I | 1 |
| AGEN 891 | Research/Thesis (4/semester) I | 4 |

**An elective course from the undergraduate programme*

**Semester 2**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 800 | Advance Irrigation | 3 |
| AGEN 802 | Advance Soil and Water Conservation | 3 |
| AGEN 804 | Advance Geo-hydrology | 3 |
| AGEN 838 | Instrumentation and Measurement in Engineering System | 3 |
| *MATH 342 | Statistics | **2** |
| AGEN 882 | Seminar (1/semester) II | 1 |
| AGEN 892 | Research/Thesis (4/semester) II | 4 |

**An elective course from the undergraduate programme*

**Year 2**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 883, 884 | Seminar (1/semester) III, IV | 3 |
| AGEN 893, 894 | Research/Thesis (4/semester) III, IV | 4 |

ii) **Farm Power and Machinery option**

**Year 1; Semester 1**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 831 | Farm Equipment Design and Evaluation | 3 |
| AGEN 841 | Advance Farm Power | 3 |
| AGEN 837 | Handling and Storage of Agricultural Produces | 3 |
| AGEN 833 | Farm Power and Machinery Management | 3 |
| AGRN 821 | Experimental Techniques | **3** |
| *MATH 431 | Numerical Analysis | 1 |
| AGEN 881 | Seminar (1/semester) I | 1 |
| AGEN 891 | Research/Thesis (4/semester) I | 4 |

*An elective course from the undergraduate programme

**Semester 2**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 832 | Traction and Trafficability | 3 |
| AGEN 834 | Principles and Application of Ergonomics | 3 |
| AGEN 838 | Instrumentation and Measurement in Engineering System | 3 |
| AGEN 842 | Crop Protection Equipment | 3 |
| *MATH342 | Statistics | **2** |
| AGEN 882 | Seminar (1/semester) II | 1 |
| AGEN 892 | Research/Thesis (4/semester) II | 4 |

*An elective course from the undergraduate programme

**M.Sc. II PROGRAMME**

| S/No | Course code | Course Title | Credit Unit |
|---|---|---|---|
| 1 | AGEN 883, 884 | Seminar (1/semester) III, IV | 1 |
| 2 | AGEN 893, 894 | Research/Thesis (4/semester) III, IV | 4 |

### 5.1.3. Doctor of Philosophy (Ph.D.)

*Admission Requirements*

A candidate with a good Master's degree (minimum CGPA 3.50) which includes coursework and research thesis in a relevant Engineering discipline (such as Agricultural and Bio-resource/bio-system/Environmental/Irrigation Engineering, Mechanical, Civil, Water Resources, Metallurgical and Material Engineering) from a recognized university may be admitted provided the university matriculation requirement is satisfied. A candidate whose first degree is not in Agricultural and Bio-resource/bio-system/Environmental/Irrigation Engineering may be asked to take some undergraduate or M.Sc. courses to meet up with any deficiency observed from his transcript.

*Graduation requirement*

The Ph.D. programme is by course work and research. The student may be recommended to the postgraduate school for graduation upon the following:

i. Pass with a minimum of 50% (C) of prescribed course work.

ii. Satisfactory Seminars presentation (Minimum of three (3), comprising Proposal seminar, research progress report, and final seminar on research findings);

iii. Successful oral defense of Dissertation which is a product of the student research findings, in accordance with the University postgraduate school requirement;

iv. Pass with a minimum of 50% (C grade) of coursework offered to remedy any deficiency from first or second degree programme.

*Course Structure*

**Semester 1, 3 and 5**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 981, 983, 985, 987, 989 | Seminar (1/semester) I, III, V, VII & IX | 1 |
| AGEN 991, 993, 995, 997 & 999 | Research/Dissertation (6/semester) I, III, V, VII & IX | 6 |

**Semester 2, 4 and 6**

| Course code | Course Title | Credit Unit |
|---|---|---|
| AGEN 982, 984, 986, 988 | Seminar (1/semester) II, IV, VI, VIII | 1 |
| AGEN 992, 994, 996, 998 | Research/Dissertation (6/semester) II, IV, VI, VIII | 6 |

## 5.2. DEPARTMENT OF CHEMICAL ENGINEERING

### 5.2.1 PGD Chemical Engineering

*Admission requirements:*

Admission Requirement: Candidate with any of the following qualifications may seek admission and registration for Postgraduate Diploma in Chemical Engineering:

i) HND Upper credit in Chemical Engineering (NBTE Accredited).
ii) Bachelor degree in Industrial Chemistry, Chemistry, Physics, Biochemistry, Mathematics or any other Engineering Discipline with a minimum of second-class upper.
iii) Holders of Third class honour degree in Chemical Engineering.

*Graduation Requirements*

1. There will be a written examination in each taught course. In addition there will be continuous assessment through quizzes, tests, assignment, etc. a weighting of 30 – 50% will be applied to continuous assessment in each course and the remaining will be applied to written examination at the end of the relevant semester.
2. The minimum requirement for a pass in any course is a weighted score of 50% provided the candidate fulfilled the minimum 75% attendance required.
3. A candidate who satisfies the overall average requirement of 50% but fails in more than 3 courses at the end of the semester will be required to resit the written examination in the relevant taught courses. These examinations will be graded on a pass or fail basis and every resit paper passed will be credited at 50%.

The Design Project will be examined and orally defended as laid down in the University regulation.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CHEN 701 | Introduction to Chemical Engineering | 2 |
| CHEN 703 | Chemical Reaction Engineering I | 2 |
| CHEN 705 | Physical Transport Phenomena | 3 |
| CHEN 707 | Chemical Engineering Thermodynamics | 2 |
| CHEN 709 | Chemical Engineering Materials | 3 |
| CHEN 711 | Engineering Drawing | 2 |
| CHEN 713 | Strength of Materials | 2 |
| CHEN 715 | Computer Applications | 2 |
| CHEN 717 | Calculus | 2 |
| CHEN 719 | Statistics | 2 |
| CHEN 721 | Algebra | 2 |
| CHEN 723 | Basic Electronics | 2 |

| | | |
|---|---|---|
| CHEN 781 | Seminar I | 1 |
| CHEN 791 | Research/Project I | 3 |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CHEN 702 | Unit Operations | 3 |
| CHEN 704 | Chemical Reaction Engineering II | 2 |
| CHEN 706 | Experimental Process Engineering | 3 |
| CHEN 708 | Process Control | 2 |
| CHEN 710 | Numerical Analysis | 2 |
| CHEN 712 | Environmental Pollution Control | 2 |
| CHEN 720 | Industrial Project | 3 |
| CHEN 732 | Design Projects | 4 |
| CHEN 782 | Seminar II | 1 |
| CHEN 792 | Research/Project II | 3 |

**5.2.2M.Sc. Nuclear Engineering**

*Admission Requirement*

For admission into the programme, candidates must:

i. Satisfy the general regulations for postgraduate studies of the University and

ii. A minimum of second class upper (Honours) bachelor's degree from a recognized institutions in Physics, Chemistry, Mathematics, Computer Science or Engineering plus NAEC bridging programme certificate.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CERT 801 | Nuclear Radiation and Radiological Protection | 3 units |
| CERT 803 | Nuclear Reactor Theory | 3 units |
| CERT 805 | Nuclear Reactor Designs | 1 unit |
| CERT 807 | Nuclear Reactor Safety | 2 units |
| CERT 809 | Nuclear Fuel Cycle | 1 unit |
| CERT 811 | Radiation Shielding | 1 unit |
| CERT 813 | Radioactive Waste Management | 1 unit |
| CERT 815 | Nuclear Law and Legislation | 1 unit |
| CERT 817 | Nuclear Materials | 2 units |
| CERT 819 | Nuclear Instrumentation Laboratory | 1 unit |
| CERT 881, 883 | Seminar I, III | 1 |
| CERT 891, 893 | Research/Thesis I, III | 4 |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CERT 802 | Nuclear Reactor Dynamics and control | 3 units |
| CERT 804 | Nuclear Thermal Hydraulics | 3 units |
| CERT 806 | Nuclear Reactor Instrumentation and Operation | 2 unit |
| CERT 808 | Electric Power Systems | 2 units |
| CERT 810 | Nuclear Engineering Laboratory | 1 unit |
| CERT 882 | Nuclear Engineering Seminar | 1 unit |
| CERT 882, 884 | Seminar II, IV | 1 |
| CERT 892, 894 | Research/Thesis II, IV | 4 |
| CERT XXX | Electives | 4 unit |
| | | |

**Third Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| Course Code | Course Title | Credit Units |
| CERT 878 | Industrial Attachment | 4 units |
| CERT 893 | Thesis | 4 |

**Electives**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CERT 826 | Introduction to imaging | 3 units |
| CERT 828 | Medical Imaging | 3 units |
| CERT 830 | Quality Management | 1 unit |
| CERT 832 | Renewable Energy | 1 units |
| CERT 834 | Energy Management | 1 unit |
| CERT 836 | Modeling and Simulation Laboratory | 1 unit |
| CERT 838 | Nuclear Fuel Management | 1 unit |

### 5.2.3 M.Sc. Chemical Engineering

*Admission Requirements*

Candidate must possess a minimum of

(a) Second Class Honours degree in Chemical Engineering from a recognized Institution.

(b) Upper Credit Postgraduate Diploma in Chemical Engineering obtained from Ahmadu Bello University, Zaria.

*Graduation Requirements*

a) Course Work:

The course work will normally last for duration of two semesters. A minimum of "C" grade is required in each of the prescribed courses to graduate. The minimum requirement for M.Sc. Chemical Engineering course work is 27 Credit Units.

b) Research

In addition, a student must successfully defend his/her thesis or dissertation before a panel of both Internal and External Examiners. This amounts to 16 Credit Units. Seminar carries 2 CreditUnits in addition.

*Course Structure*

| Course Code | Course Title | | Credit Units |
|---|---|---|---|
| CHEN 801 | Advanced Transport Phenomena | 3 | |
| CHEN 802 | Advanced Unit Operations | 3 | |
| CHEN 803 | Advanced Thermodynamics | | 3 |
| CHEN 804 | Advanced Chemical ReactionEngineering | 3 | |
| CHEN 805 | Computational Techniques for Chemical Engineers | | 3 |
| CHEN 806 | Process Modelling and Optimization | | 3 |
| CHEN 891-894 | Research/Thesis (4cu/semester) | 4 | |
| CHEN 881-884 | Seminar (1cu/semester) | | 1 |

**Elective Courses**

| Course Code | Course Title | Credit Units | |
|---|---|---|---|
| CHEN807 | Petroleum Refining | | 3 |
| CHEN808 | Petrochemical Processing | 3 | |
| CHEN809 | Gas and Gas Condensate Processing | | 3 |
| CHEN810 | Heat Pump Technology | | 3 |
| CHEN811 | Environment and SustainableEngineering | | 3 |
| CHEN812 | Less Common Separation Processes | | 3 |
| CHEN813 | Advanced Biochemical Engineering | | 3 |
| CHEN814 | Polymerization Processes | 3 | |
| CHEN815 | Unit Operations in Polymer | | 3 |
| CHEN816 | Polymer Properties & Application | 3 | |
| CHEN817 | Ceramic Materials | 3 | |
| CHEN818 | Refractories | | 3 |
| CHEN819 | Corrosion Technology | | 3 |
| CHEN820 | Biofuels Technology | | 3 |
| CHEN870 | Special Design Problems | 3 | |

**5.2.4 Ph.D.Chemical Engineering**

*Admission Requirements*

Candidate shall (i) possess a minimum of 4.0 Cumulative Grade Point Average on 5.0 scale or equivalent letter grade (B) in M.Sc. Chemical Engineering coursework from a reputable University (ii) possess a Master's research thesis.

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| CHEN 901 | Thermodynamics of Complex Processes | 3 |
| CHEN 902 | Turbulence Modeling | 3 |
| CHEN 903 | Advanced Reactor Analysis | 3 |
| CHEN 991-999 | Ph.D. Dissertation (6cu/semester) | 6 |
| CHEN 981-989 | Seminar (1cu/semester) | 1 |

**Elective Courses**

| Course Code | Course Title | Credit Units |
|---|---|---|
| CHEN904 | Adsorption | 3 |
| CHEN906 | Advanced Petroleum andGas Dispersion Systems | 3 |
| CHEN908 | Structure, Properties and PerformanceRelationship in Materials | 3 |
| CHEN810 | Design and Selection of Materials | 3 |

## 5.3. DEPARTMENT OF CIVIL ENGINEERING

**5.3.1 M.Sc.Civil Engineering**

*Admission Requirements*

To be eligible for admission into M.Sc. programme a candidate must possess:

(a) A minimum of Second Class Honours degree in Civil Engineering from a recognized University or equivalent Institution;

(b) Any other qualification, which together with relevant experience is deemed to be equivalent to (a) above by the department and approved by the Faculty Board and the Senate.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Civil Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements:*

For graduation, a registered student must complete all PG and Departmental requirements. In addition, the student must satisfy the following:

a. Satisfactory completion of coursework requirements;
b. Completion of Thesis and Project meeting the requirements of internal and external examiners as well as to the PG Board and Senate;
c. Any additional requirements as may be specified from time to time.

*Course Structure:*

**Semester 1**

| Course Code | Title | Credit Unit |
|---|---|---|
| CVEN 801 | Bituminous materials | 3 |
| CVEN 803 | Numerical methods and statistical analysis | 4 |
| CVEN 805 | Advanced Soil Mechanics | 3 |
| CVEN 807 | Cement and Concrete Technology | 3 |
| CVEN 809 | Timber Technology | 3 |
| CVEN 811 | Dam Design and Reservoir Operations | 3 |
| CVEN 881, 883 | Seminar I & III (1CU/Semester) | 1 |
| CVEN 891, 893 | Research/Thesis I &III (4CU/Semester) | 4 |
| **Semester 2** | | |
| **Highway and Transportation Option** | | |
| CVEN 810 | Transportation planning | 3 |

| | | |
|---|---|---|
| CVEN 812 | Highway materials, pavement design and maintenance | 3 |
| CVEN 814 | Advanced Traffic Engineering | 3 |
| CVEN 816 | Airport Design | 3 |
| CVEN 818 | Geometric and earthwork design | 3 |
| CVEN 882, 884 | Seminar II & IV (1CU/Semester) | 1 |
| CVEN 892, 894 | Research/Thesis II&IV (4CU/Semester) | 4 |
| **Structural Option** | | |
| CVEN 820 | Advanced structural analysis | 3 |
| CVEN 822 | Advanced Reinforced Concrete Structures | 3 |
| CVEN 824 | Prestressed Concrete Structures | 3 |
| CVEN 826 | Theory of plates and shells | 3 |
| CVEN 828 | Advanced Metal Structures | 3 |
| CVEN 882, 884 | Seminar II & IV (1CU/Semester) | 1 |
| CVEN 892, 894 | Research/Thesis II &IV (4CU/Semester) | 4 |
| **Geotechnical Option** | | |
| CVEN 830 | Advanced Foundation Engineering | 3 |
| CVEN 832 | Earth pressures and retaining structures | 3 |
| CVEN 834 | Rock mechanics | 3 |
| CVEN 836 | Earth structures and slop stability | 3 |
| CVEN 838 | Lateritic soils and other problem soils of Africa | 3 |
| CVEN 882, 884 | Seminar II& IV (1CU/Semester) | 1 |
| CVEN 892, 894 | Research/Thesis II& IV (4CU/Semester) | 4 |
| **Civil Engineering Construction Material Option** | | |
| CVEN 840 | Instrumentation and testing methods | 2 |
| CVEN 842 | Materials Science and Applications to construction elements | 4 |
| CVEN 844 | Failure theories | 2 |
| CVEN 846 | Fibres and composite materials | 4 |
| CVEN 882, 884 | Seminar II & IV (1CU/Semester) | 1 |
| CVEN 892, 894 | Research/Thesis II&IV (4CU/Semester) | 4 |

In order to complete the programme requirement a student must accumulate a minimum of 25 credit units from the courses and submit a satisfactory thesis. Electives should be selected on after proper guidance from the Department coordinator of Postgraduate studies.

### 5.3.2 Ph. D. (Civil Engineering)

*Admission Requirements*

To be eligible for admission into Ph. D. programme a candidate must possess:

(a) In addition to having obtained a Second Class Honours degree in Civil Engineering, an M.Sc. in Civil Engineering from a recognized University or equivalent Institution is required;

(c) Any other qualification, which together with relevant experience is deemed to be equivalent to (a) above by the department and approved by the Faculty Board and the Senate.

*Graduation Requirements*

To successfully complete the programme leading to the award of Ph.D. (Civil) programme, a registered student must complete all PG school and Departmental requirements. In addition, the student must have:

a. Enrolled for a minimum of Two years (2) for a full time Ph.D. (Civil) programme, or Three (3) years for a part-time programme;
b. Presented at least three (3) seminars including the final seminar;
c. Completed Dissertation and Project meeting the requirements of internal and external examiners as well as to the PG Board and Senate;
d. Any additional requirements as may be specified from time to time.

*Course Structure*

The PhD programme is at the moment only by research.

| **Course Code** | **Title** | **Credit Unit** |
|---|---|---|
| **Semester 1** | | |
| CVEN 981, 983, 985, 987, 989 | Seminar I, III, V, VII, IX (1CU/Semester) | 1 |

| | | |
|---|---|---|
| CVEN 991, 993, 995, 997 | Research/Dissertation I, III, V, VII, IX (6CU/Semester) | 6 |
| **Semester 2** | | |
| CVEN 982, 984, 986, 988 | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| CVEN 992, 994, 996, 998 | Research/Dissertation II, IV, VI, VIII (6CU/Semester) | 6 |

## 5.4 DEPARTMENT OF COMMUNICATION ENGINEERING

### 5.4.1 Postgraduate Diploma in Electronics and Communications Engineering

*Admission Requirements:*

To be eligible for admission into the PGD programme a candidate must possess:

(a) A first degree in Computer/Communications/Electrical/Electronics Engineering, Computer Science, Physics not lower than a Third Class from a recognized University or equivalent Institution.

(b) A Higher National Diploma in Computer/Communications/Electrical/Electronics Engineering, Computer Science, Physics at Credit Level from a recognized Polytechnic or equivalent Institution

(c) Any other qualification, which together with relevant experience is deemed to be equivalent to (a) above by the department and approved by the Faculty Board and the Senate.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Computer Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements*

To obtain the Postgraduate Diploma, a candidate must;

a) Obtain a minimum of 36 credit units at the 700-level made up as follows:
   i) 20 credit units of core courses
   ii) 6 credit units of elective courses
   iii) 3 credit units of Seminar
   iv) 9 credit units of project

b) Satisfy all other requirements as stipulated in the Regulations of the School of Postgraduate Studies.

*Course Structure*

**First Semester**

| S/N | Course Code | Course Title | CU | Status |
|---|---|---|---|---|
| 1 | CMEN711 | Data Communication | 2 | Core |
| 2 | CMEN713 | Telecommunication Networks I | 2 | Core |
| 3 | CMEN715 | Digital Electronics II | 2 | Core |
| 4 | EEEN709 | Engineering Management and Decision Making | 2 | Elective |
| 5 | EEEN703 | Advanced EM Fields and Waves | 2 | Core |
| 6 | CMEN731 | Radio Communication | 2 | Core |
| 7 | CMEN733 | Optical Fibre Communication | 2 | Elective |
| 8 | CMEN735 | Satellite Communication | 2 | Core |
| 9 | CMEN 781 | Seminar (1cu/Semester) | 1 | Core |
| 10 | CMEN 791 | Research/Project (3 cu/Semester) | 3 | Core |
| | | Total | 19 | |

**Second Semester**

| S/N | Course Code | Course Title | CU | status |
|---|---|---|---|---|
| 1 | CMEN720 | Communications Power Systems | 2 | Elective |
| 2 | CMEN722 | Integrated Circuits and Systems Design | 2 | Core |
| 3 | CMEN724 | Telecommunications Networks II | 2 | Core |
| 4 | CMEN726 | Communication Theory and Systems | 2 | Core |
| 5 | CMEN728 | Digital Signal Processing | 2 | Core |
| 6 | CMEN 782 | Seminar (1cu/Semester) | 1 | Core |
| 7 | CMEN 792 | Research/Project (3 cu/Semester) | 3 | Core |
| | | Total | 13 | |

**Third Semester**

| S/N | Course Code | Course Title | CU | status |
|---|---|---|---|---|
| 1 | CMEN737 | Digital Switching Systems | 2 | Elective |
| 2 | CMEN739 | Advanced Signal Processing | 2 | Elective |
| 3 | CMEN 783 | Seminar (1cu/Semester) | 1 | Core |
| 4 | CMEN 793 | Research/Project (3 cu/Semester) | 3 | Core |
| | | Total | 7 | |

### 5.4.2 MSc. Telecommunications Engineering (Etisalat Telecommunications Engineering Program-ETEP)

*Admission Requirements:*

To be eligible for admission into the M.Sc. programme a candidate must possess:

(a) A Second Class Honours degree in Communications/Computer/Electrical/Electronics Engineering from a recognized University or equivalent Institution.

(b) Postgraduate Diploma in Communications/Computer/Electrical/Electronics Engineering with final CGPA of 3.50 or a 4-point or 4.50 or 5-point grade scale from a recognized University or equivalent institution. However, priority will be given to Ahmadu Bello University, Zaria Postgraduate Diploma graduates.

(c) A Third Class Honours degree in Communications/Computer/Electrical/Electronics Engineering from a recognized University or equivalent Institution with a minimum of Five (5) years post-graduation experience.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Communication Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements:*

To graduate t the M.Sc. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

(a) Satisfactory completion of coursework requirements
(b) Presentation of a Research Proposal
(c) Presentation of at least two (2) Seminars on the Research
(d) Completion and defense of thesis to the satisfaction of internal and external examiners as well as satisfying the requirements of the School of Postgraduate Studies and Senate of the University.
(e) Any additional requirements as may be specified from time to time.

The total minimum requirement for the Master's degree comprises 30 credit units for coursework and 6 credits units seminars and 9 credit units for thesis, making a total of 45 credit units.

NOTE: A candidate can be presented for examination for the M.Sc. after a minimum of 18 months if he/she has satisfied all the above requirements.

**Telecommunications Engineering Option**

*Course Structure*

| Course Code | Course Title | CU |
|---|---|---|
| **Common Courses** | | |
| COEN801 | Research Methodology and Project Management | 3 Credits |
| CMEN837 | Antenna Theory And EMC | 3 Credits |
| CMEN821 | Digital Signal Processing | 3 Credits |
| | **9 CREDITS .** | |
| **Core Courses** | | |
| CMEN831 | Switching and Traffic Engineering | 3 Credits |
| CMEN833 | Digital Communications | 3 Credits |
| CMEM832 | Optical Communications | 3 Credits |
| CMEN835 | Wireless and Mobile Communications | 3 Credits |
| CMEN834 | RF Subsystems and Satellite Communication | 3 Credits |
| CMEN836 | Network Management and Analysis | 3 Credits |
| | | **18 CREDITS .** |
| **Elective Courses** | | |
| COEN803 | Computational Intelligence Techniques | 3 Credits |
| CMEN839 | Advanced Electromagnetics | 3 Credits |
| COEN842 | Advanced Programming | 3 Credits |

| | | |
|---|---|---|
| COEN 803 | Computer Installation Techniques | 3 Credits |
| | | **12 CREDITS .** |
| **Seminar &Research** | | |
| CMEN881, 882883, 884 | Seminar ICU/Semester I, II, III & IV | 3+ Credits |
| CMEN891, 892,893, 894 | M.Sc. Research Thesis I, II, III & IV | 4CU/Semester |
| | **15 CREDITS** | |

**Electronics Engineering Option**

*CourseStructure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Common Courses** | | |
| COEN801 | Research Methodology And Project Management | 3 Credits |
| COEN803 | Computational Intelligence Techniques | 3 Credits |
| CMEN821 | Digital Signal Processing 3 Credits | |
| | **9 CREDITS** | |
| **Core Courses** | | |
| CMEN842 | Microwave Electronics And Systems | 3 Credits |
| CMEN843 | Semiconductor Microelectronics | 3 Credits |
| CMEN841 | Communication Electronics | 3 Credits |
| CMEN845 | Advanced Logic Design | 3 Credits |
| CMEN844 | Integrated Circuits And VLSI Technology | 3 Credits |
| CMEN846 | Advanced Test And Measurement Instruments | 3 Credits |
| | | **18 CREDITS** |
| **Elective Courses** | | |
| CMEN847 | Power Electronics And Industrial Drives | 3 Credits |
| CMEN848 | Intelligent Sensors | 3 Credits |
| COEN842 | Advanced Programming 3 Credits | |
| | | **9 CREDITS** |
| **Research** | | |
| CMEN881, 882 883, 884 | Seminar I, II, III & IV(ICU/Semester) | 3+ Credits |
| CMEN891, 892 893, 894 | M.Sc. Research ThesisI, II, III & IV (4CU/Semester) | 12+ Credits |
| | **15 CREDITS** | |

### 5.4.3 PhD Telecommunication Engineering

*Admission Requirements*

To be eligible for admission into the Ph.D. programme a candidate must possess:

(a) A Master of Science (M.Sc.) degree in Communications/Computer/Electrical/Electronics Engineering from a recognized University or equivalent Institution.

(b) A Master of Philosophy (M.Phil.) degree in Communications/Computer/Electrical/Electronics Engineering in addition to a professional Master's degree or equivalent.

(c) In addition to (a) and (b), a comprehensive research proposal is to be submitted to the Department.

*Graduation Requirements*

To graduate at the Ph.D. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

a) Presentation of a Research Proposal
b) Presentation of at least three (3) Seminars on the Research
c) Completion and defense of dissertation to the satisfaction of internal and external examiners as well as satisfying the requirements of the School of Postgraduate Studies and Senate of the University.
d) Any additional requirements as may be specified from time to time.

The total minimum requirement for a Ph.D. Communication Engineering degree comprises 12 credits units for the dissertation in addition to satisfying the coursework credit load for the M.Sc.

NOTE: A candidate can be presented for examination for the Ph.D. after a minimum of 24 months if he/she has satisfied all the above requirements.

*Course Structure*

| Course Code | Title | Credit Unit |
|---|---|---|
| **Semester 1** | | |
| CMEN 981, 983, 985 | Seminar I, III, V, VII (1CU/Semester) | 1 |
| CMEN 991, 993, 995 | Research/Dissertation I, III, V, VII (6CU/Semester) | 6 |
| **Semester 2** | | |
| CMEN 982, 984, 986, | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| CMEN 992, 994, 996 | Research/Dissertation II, IV, VI, VIII (6CU/Semester) | 6 |

## 5.5 DEPARTMENT OF COMPUTER ENGINEERING

### 5.5.1 Postgraduate Diploma in Data Communication and Software Engineering

*Admission Requirements*

Candidate with any of the following minimum qualifications or the equivalents obtained from an institution recognized by the Ahmadu Bello University Senate are eligible for admission into the programme.

i) A first degree in Electrical/Electronics Engineering, Computer Engineering, Computer Science, Physics and Technical Education.
ii) A Higher National Diploma in Electrical/Electronics Engineering or Computer Science at Upper Credit Level.
iii) Any other qualification, which together with relevant experience is deemed to be equivalent to (a) above by the department and approved by the Faculty Board and the Senate.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Electrical Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements*

To obtain the Postgraduate Diploma, a candidate must;

(a) Obtain a minimum of 41 credit units at the 700-level made up as follows:
    (i) 16 units of core courses per semester (2 units of elective courses from the student's areas of specialization)
    (ii) 9 units of project work in the student's area of specialization
(b) Satisfy all other requirements as stipulated in the Regulations of the School of Postgraduate Studies.

*Course Structure*

The curriculum consists of two areas of concentration

(i) Core courses
(ii) Electives

A student must take all the COMMON courses irrespective of his/her area of specialization. The CORE and ELECTIVES are specialist courses aimed at further concentration in the area of specialization in which a student is required to undertake a practical project.

**Semester 1**

| Course Code | Courses | Credit Unit | Status |
|---|---|---|---|
| CS701 | Mathematics for Computation Theory | 2 | Common |
| CS703 | Survey of Computer Languages | 2 | Common |
| CS705 | Software Architecture | 2 | Common |
| CS707 | Object Oriented Database Systems | 2 | Common |
| CS709 | Networked Systems | 2 | Common |
| CS711 | Design and Analysis of Algorithms | 2 | Common |
| CS713 | Network and Distributed Systems | 2 | Common |

| | | | |
|---|---|---|---|
| | Programming | | |
| CS715 | Mini-Project | 1 | Core |
| CS 781 | Seminar 1 | 1/semester | |
| CS791 | Project 1 | 3/semester | Core |

**Electives**

| | | | |
|---|---|---|---|
| ECS701 | Requirements Engineering | 3 | Elective |
| ECS703 | Securing Operating Systems and Web Interfaces | 3 | Elective |

**Second Semester**

| Course Code | Courses | Credit Unit | Status |
|---|---|---|---|
| DCS702 | Networking Technologies and Principles | 2 | Core |
| DCS704 | Routing and Remote Access | 2 | Core |
| DCS706 | Network and System Administration | 2 | Core |
| DCS708 | Network Performance Evaluation and Management | 2 | Core |
| DCS710 | Design, Installation and Maintenance of Network Systems | 2 | Core |
| DCS712 | Multilayer Switching and Internetwork Troubleshooting | 2 | Core |
| DCS714 | Data Communications Networks | 2 | Core |
| DCS782 | Seminar II | 1/semester | Core |
| DCS792 | Project II | 3/semester | Core |

**Electives**

| | | | |
|---|---|---|---|
| ECS702 | Multimedia Systems | 3 | Elective |
| ECS704 | Corporate Network Management | 3 | Elective |

**5.5.2 PGD Computer Engineering**

*Admission Requirements:*

To be eligible for admission into the PGD programme a candidate must possess:

(d) A first degree in Computer/Communications/Electrical/Electronics Engineering, Computer Science, Physics not lower than a Third Class from a recognized University or equivalent Institution.

(e) A Higher National Diploma in Computer/Communications/Electrical/Electronics Engineering, Computer Science, Physics at Upper Credit Level from a recognized Polytechnic or equivalent Institution

(f) Any other qualification, which together with relevant experience is deemed to be equivalent to (a) above by the department and approved by the Faculty Board and the Senate.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Computer Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements*

To obtain the Postgraduate Diploma, a candidate must;

c) Obtain a minimum of 36 credit units at the 700-level made up as follows:
   v) 20 credit units of core courses
   vi) 6 credit units of elective courses
   vii) 3 credit units of Seminar
   viii) 9 credit units of project

d) Satisfy all other requirements as stipulated in the Regulations of the School of Postgraduate Studies.

*Course Structure*

**Semester I (Core)**

| Course Code | Course Title | Status | CU |
|---|---|---|---|
| COEN701 | Soft Computing Techniques | Core | 2Credits |
| COEN703 | Digital System Design | Core | 2Credits |
| COEN705 | Advanced Network Technology | Core | 2Credits |
| COEN709 | Programming In $C^{++}$ | Core | 2Credits |

| | | | |
|---|---|---|---|
| COEN755 | Mini-Project/Lab | Core | 2Credits |
| EEEN701 | Advanced Circuit Theory | Core | 2Credits |
| COEN707 | Modern Control | Elective | 2Credits |
| COEN711 | Engineering Design And Sustainability Studies | Elective | 2Credits |
| COEN781 | Seminar I | Core | 1Credits |
| COEN791 | Research Project 1 | Core | 3Credits |
| | | | **11CREDITS** |
| **Semester II (Core)** | | | |
| CMEN728 | Digital Signal Processing | Core | 2Credits |
| COEN702 | Software Engineering | Core | 2Credits |
| COEN704 | Web-Based Design And Applications | Core | 2Credits |
| COEN706 | Computer Architecture | Core | 2Credits |
| COEN710 | Network Security And Cryptography | Core | 2Credits |
| COEN782 | Seminar II | Core | 1Credits |
| COEN792 | Research Project II | Core | 3Credits |
| | | | **11CREDITS** |
| **Semester III** | | | |
| COEN713 | Database Management System | Elective | 2Credits |
| COEN715 | Digital Computation | Elective | 2Credits |
| COEN783 | Seminar III | Core | 1Credits |
| COEN793 | Research Project III | Core | 3Credits |
| | | | **11CREDITS** |

### 5.5.3 MSc Computer Engineering

*Admission Requirements:*

To be eligible for admission into the M.Sc. programme a candidate must possess:

(a) A Second Class Honours degree in Electrical/Electronics/Computer Engineering from a recognized University or equivalent Institution.

(b) Postgraduate Diploma in Electrical Engineering with final CGPA of **3.50** on a **4.-point** grade scale from a recognized University or equivalent institution. However, priority will be given to Ahmadu Bello University, Zaria Postgraduate Diploma graduates.

(c) A Third Class Honours degree in Electrical/Electronics/Computer Engineering from a recognized University or equivalent Institution with a minimum of Five (5) years post-graduation experience or PGD.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Electrical Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements:*

To graduate at the M.Sc. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

a. Satisfactory completion of coursework requirements
b. Presentation of a Research Proposal
c. Presentation of at least two (2) Seminars on the Research
d. Completion and Defence of Thesis to the satisfaction of internal and external examiners as well as to the PG Board and Senate.
e. Any additional requirements as may be specified from time to time.

The total minimum requirement for an M.Sc. Electrical Engineering degree comprises 27 credit units for coursework and 6-12 credits units for thesis and projects.

*Course Structure*

**Semester 1:**

| **Course Code** | **Course Title** | **CU** |
|---|---|---|
| **Common Courses** | | |
| COEN801 | Research Methodology And Project Management | 3 Credits |
| COEN803 | Computational Intelligence Techniques | 3 Credits |
| CMEN821 | Digital Signal Processing | 3 Credits |

| | | **9 CREDITS** |
|---|---|---|
| **Core Courses** | | |
| COEN841 | Advanced Computer Architecture | 3 Credits |
| COEN843 | Network Security And Cryptography | 3 Credits |
| COEN845 | Multimedia Systems | 3 Credits |
| | | 9 **CREDITS** |
| **Research** | | |
| COEN881, 882 883, 884 | Seminar I, II, III & IV (1CU/Semester) | 3+Credits |
| COEN891, 892 893, 894 | Research/Thesis I, II, III & IV (4CU/Semester) | 12+Credits |

**Semester 2:**

| **Course Code** | **Course Title** | **CU** |
|---|---|---|
| **Core Courses** | | |
| COEN840 | Computer Communications And Networks | 3 Credits |
| COEN842 | Advanced Programming | 3 Credits |
| COEN844 | Microcontroller And Applications | 3 Credits |
| | | 9 **CREDITS** |
| **Elective Courses** | | |
| COEN846 | **H**uman-Computer Interface Engineering | 3 Credits |
| COEN856 | Intelligent Agents | 3 Credits |
| COEN858 | System Modelling And Identification | 3 Credits |
| | | **9 CREDITS** |
| **Research** | | |
| COEN881, 882, 883, 884 | Seminar I, II, III & IV (1CU/Semester) | 3+Credits |
| COEN891, 892, 893, 894 | Research/Thesis I, II, III & IV (4CU/Semester) | 12+Credits |

### 5.5.4 PhD Computer Engineering

*Admission Requirements:*

To be eligible for admission into the Ph.D. programme a candidate must possess:

(d) A Master of Science (M.Sc.) degree in Electrical/Electronics/Computer Engineering from a recognized University or equivalent Institution.

(e) In addition to (d), a comprehensive research proposal is to be submitted to the Department.

*Graduation Requirements:*

To graduate at the Ph.D. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

a) Presentation of a Research Proposal
b) Presentation of at least three (3) Seminars on the Research
c) Completion and Defence of Dissertation to the satisfaction of internal and external examiners as well as to the PG Board and Senate.
d) Any additional requirements as may be specified from time to time.

The total minimum requirement for a Ph.D. Electrical Engineering degree comprises 24+ credits units for the dissertation.

*Course Structure*

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Semester 1** | | |
| COEN 981, 983, 985 | Seminar I, III, V, VII (1CU/Semester) | 1 |
| COEN 991, 993, 995 | Research/Dissertation I, III, V, VII (6CU/Semester) | 6 |
| | | |
| **Semester 2** | | |
| COEN 982, 984, 986, | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| COEN 992, 994, 996 | Research/Dissertation II, IV, VI, VIII (6CU/Semester) | 6 |

### 5.5.5 M.Sc. Control Engineering

*Admission and Graduation Requirements*
As described for MSc Computer Engineering

*Course Structure*
**Semester 1:**

| Course Code | Course Title | CU |
|---|---|---|
| **Common Courses** | | |
| COEN801 | Research Methodology And Project Management | 3 Credits |
| COEN803 | Computational Intelligence Techniques | 3 Credits |
| CMEN821 | Digital Signal Processing | 3 Credits |
| | | **9 CREDITS** |
| **Core Courses** | | |
| COEN851 | Linear And Digital Control System | 3Credits |
| COEN853 | Optimal Control System | 3 Credits |
| COEN855 | Process Control And Automation | 3 Credits |
| | | 9 **CREDITS** |
| **Research** | | |
| COEN881, 882, 883, 884 | Seminar (1CU/Semester) | 3+Credits |
| COEN891, 892, 893, 894 | Research/Thesis (4CU/Semester) | 12+Credits |

**Semester 2:**

| Course Code | Course Title | CU |
|---|---|---|
| **Core Courses** | | |
| COEN844 | Microcontroller And Applications | 3 Credits |
| COEN850 | Robust And Multivariable Control System | 3 Credits |
| COEN852 | Non-Linear And Adaptive Control System | 3 Credits |
| | | 9 **CREDITS** |
| **Elective Courses** | | |
| COEN854 | Advanced Mechatronics | 3 Credits |
| COEN856 | Intelligent Agents | 3 Credits |
| COEN858 | System Modelling And Analysis | 3 Credits |
| | | **9 CREDITS** |
| **Research** | | |
| COEN881, 882, 883, 884 | Seminar (1CU/Semester) | 3+Credits |
| COEN891, 892, 893, 894 | Research/Thesis (4CU/Semester) | 12+Credits |

### 5.5.6 PhD Control Engineering

*Admission Requirements:*
To be eligible for admission into the Ph.D. programme a candidate must possess:

(f) A Master of Science (M.Sc.) degree in Electrical/Electronics/Computer Engineering from a recognized University or equivalent Institution.
(g) In addition to (d), a comprehensive research proposal is to be submitted to the Department.

*Graduation Requirements:*
To graduate at the Ph.D. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

e) Presentation of a Research Proposal
f) Presentation of at least three (3) Seminars on the Research
g) Completion and Defence of Dissertation to the satisfaction of internal and external examiners as well as to the PG Board and Senate.
h) Any additional requirements as may be specified from time to time.

The total minimum requirement for a Ph.D. Electrical Engineering degree comprises 24+ credits units for the dissertation.

*Course Structure*

| Course Code | Title | Credit Unit |
|---|---|---|
| **Semester 1** | | |
| COEN 981, 983, 985 | Seminar I, III, V, VII (1CU/Semester) | 4+ |
| COEN 991, 993, 995 | Research/Dissertation I, III, V, VII (6CU/Semester) | 24+ |
| **Semester 2** | | |
| COEN 982, 984, 986, | Seminar II, IV, VI, VIII (1CU/Semester) | 4+ |
| COEN 992, 994, 996 | Research/Dissertation II, IV, VI, VIII (6CU/Semester) | 24+ |

## 5.6 DEPARTMENT OF ELECTRICAL ENGINEERING

*Areas of Specialization:*

1. M.Sc./Ph.D. in Electrical Engineering (Power Systems Engineering)
2. M.Sc./Ph.D. in Electrical Engineering (Machines and Industrial Drives)

*Admission Requirements:*

To be eligible for admission into the M.Sc. programme a candidate must possess:

(a) A Second Class Honours degree in Electrical/Electronics/Computer/Communications Engineering from a recognized University or equivalent Institution.

(b) Postgraduate Diploma in Electrical Engineering with final CGPA of **3.50** on a **4.0-point** or **4.50** on a **5-point** grade scale from a recognized University or equivalent institution. However, priority will be given to Ahmadu Bello University, Zaria Postgraduate Diploma graduates.

(c) A Third Class Honours degree in Electrical/Electronics/Computer Engineering from a recognized University or equivalent Institution with a minimum of Five (5) years post-graduation experience or relevant PGD.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Electrical Engineering courses that must be taken by the candidate to clear the deficiencies.

To be eligible for admission into the Ph.D. programme a candidate must possess:

a) A Master of Science (M.Sc.) degree in Electrical/Electronics/Computer/Communications Engineering from a recognized University or equivalent Institution.

b) A Master of Philosophy (M.Phil.) degree in Electrical/Electronics/Computer /Communications Engineering in addition to a professional Master's degree or equivalent

c) In addition to (a) and (b) above, a comprehensive research proposal is to be submitted to the Department.

*Graduation Requirements:*

To graduate at the M.Sc. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

a) Satisfactory completion of coursework requirements
b) Presentation of a Research Proposal
c) Presentation of at least two (2) Seminars on the Research
d) Completion and Defence of Thesis to the satisfaction of internal and external examiners as well as to the PG Board and Senate.
e) Any additional requirements as may be specified from time to time.

The total minimum requirement for an M.Sc. Electrical Engineering degree comprises 30 credit units for coursework, 6 credit units for seminars and 9 credits units for thesis and projects, making a total of 45 credit units.

To graduate at the Ph.D. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

i) Presentation of a Research Proposal
j) Presentation of at least three (3) Seminars on the Research
k) Completion and Defence of Dissertation to the satisfaction of internal and external examiners as well as to the PG Board and Senate.
l) Any additional requirements as may be specified from time to time.

The total minimum requirement for a Ph.D. Electrical Engineering degree comprises 12 credits units for the dissertation in addition to satisfying any recommended course works by the supervisory committee.

**5.6.1 M.Sc. Electrical Engineering (Power Systems Engineering)**
*Course Structure*
**Semester 1:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Common Courses** | | |
| COEN801 | Research Methodology And Project Management | 3 Credits |
| CMEN821 | Digital Signal Processing | 3 Credits |
| EEEN857 | Power Electronics Devices | 3 Credits |
| EEEN881/883 | Seminar I & III | 1 Credit/Semester |
| EEEN891/893 | Research Thesis I & III | 4 Credits/Semester |
| **Core Courses** | | |
| EEEN807 | Power Systems Operation, Planning And Quality | 3 Credits |
| EEEN809 | High Voltage Engineering And System Protection | 3 Credits |
| EEEN815 | Economic Operation Of Interconnected Systems | 3 Credits |
| **Elective Courses** | | |
| MATH841 | Numerical Optimization Techniques | 3 Credits |
| EEEN801 | EMI And Compatibility | 3 Credits |

**Semester 2:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Common Courses** | | |
| EEEN882/884 | Seminar II & IV | 1 Credit/Semester |
| EEEN892/894 | Research Thesis II & IV | 4 Credits/Semester |
| **Core Courses** | | |
| EEEN810 | Power System Analysis And Control | 3 Credits |
| EEEN808 | Distributed Generation And Renewable Energy Systems | 3 Credits |
| EEEN816 | Statistical Methods In Power Systems Reliability | 3 Credits |
| **Elective Courses** | | |
| EEEN832 | Flexible Ac Transmission Systems | 3 Credits |
| EEEN834 | Electrical Energy Utilization & Management | 3 Credits |
| EEEN838 | Elements Of Smart Grid | 3 Credits |

**5.6.2 M.Sc. Electrical Engineering (Electric Machines and Industrial Drives)**
*Course Structure*
**Semester 1:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Common Courses** | | |
| COEN801 | Research Methodology And Project Management | 3 Credits |
| CMEN821 | Digital Signal Processing | 3 Credits |
| EEEN857 | Power Electronics Devices | 3 Credits |
| EEEN881/883 | Seminar I & III | 1 Credit/Semester |
| EEEN891/893 | Research Thesis I & III | 4 Credits/Semester |
| **Core Courses** | | |
| EEEN817 | Electrical Machines Modelling & Analysis | 3 Credits |
| EEEN819 | Dynamics Of Electric Machines | 3 Credits |

| | | |
|---|---|---|
| EEEN821 | DC Machine Drives | 3 Credits |
| EEEN829 | Analysis Of Power Electronic Controllers | 3Credits |

**Elective Courses**

| | | |
|---|---|---|
| MATH841 | Numerical Optimization Techniques | 3 Credits |
| EEEN801 | EMI And Compatibility | 3 Credits |

**Semester 2:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Common Courses** | | |
| EEEN882/884 | Seminar II & IV | 1 Credit/Semester |
| EEEN892/894 | Research Thesis II & IV | 4 Credits/Semester |
| **Core Courses** | | |
| EEEN818 | Computer Aided Design Of Electrical Machines | 3 Credits |
| EEEN822 | AC Machine Drives | 3 Credits |
| **Elective Courses** | | |
| EEEN834 | Electrical Energy Utilization & Management | 3 Credits |
| COEN854 | Advanced Mechatronics | 3 Credits |
| COEN844 | Microcontrollers And Applications | 3 Credits |

**5.6.3 Postgraduate Diploma in Power and Machines (PGDPM)**

*Admission Requirements*

Candidate with any of the following minimum qualifications or the equivalents obtained from an institution recognized by the Ahmadu Bello University Senate are eligible for admission into the programme.

i) A first degree in Electrical/Electronics Engineering, Computer Engineering, Computer Science, Physics and Technical Education.
ii) A Higher National Diploma in Electrical/Electronics Engineering or Computer Science at Credit Level.
iii) Any other qualification, which together with relevant experience is deemed to be equivalent to (a) above by the department and approved by the Faculty Board and the Senate.

Where necessary candidates may be required to clear or make up for deficiency in previous training. Each case will be considered individually by the Departmental PG Committee, which will recommend the undergraduate Electrical Engineering courses that must be taken by the candidate to clear the deficiencies.

*Graduation Requirements*

To obtain the Postgraduate Diploma, a candidate must;

(a) Obtain a minimum of 36 credit units at the 700-level made up as follows:
  (i) 20 credit units of core courses
  (ii) 6 credit units of elective courses
  (iii) 4 credit units of laboratory practical works
  (iv) 6 credit units of project work
(b) Satisfy all other requirements as stipulated in the Regulations of the School of Postgraduate Studies.

*Courses Structure*

**First Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| EEEN703 | Advanced Em Field And Waves | 2 Credits | Core |
| EEEE709 | Engineering Mgt And Decision Making | 2 Credits | Elective |
| EEEN711 | Reliability And Maintainability | 2 Credits | Elective |
| EEEN713 | *Laboratory Practical's* I | 2 Credits | Core |
| MATH741 | Numerical Analysis | 2 Credits | Elective |
| EEEN701 | Advanced Circuit Theory | 2 Credits | Core |
| EEEN725 | Advanced Electric Machines | 2 Credits | Core |
| COEN707 | Modern Control | 2 Credits | Core |

| | | | |
|---|---|---|---|
| EEEN781 | Seminar I | 1Credits | |
| EEEN791 | Research Project I | 2Credits | |
| **Second Semester** | | | |
| EEEN720 | Power Analysis, Operations And Protections | 2 Credits | Core |
| EEEN726 | Electrical Drives | 2 Credits | Core |
| EEEN728 | Electrical Services Design | 2 Credits | Core |
| EEEN730 | Power Electronics | 2 Credits | Core |
| EEEN714 | *Laboratory Practical's* II | 2 Credits | Core |
| EEEN782 | Seminar II | 1Credits | |
| EEEN792 | Research Project II | 2Credits | |
| **Third Semester** | | | |
| EEEN722 | Power Lines Communications | 2 Credits | Elective |
| COEN715 | Digital Computation | 2 Credits | Elective |
| EEEN783 | Seminar III | 1Credits | |
| EEEN793 | Research Project III | 2Credits | |

**5.6.4 PhD Electrical Engineering**

*Admission Requirements:*

To be eligible for admission into the Ph.D. programme a candidate must possess:

(a) A Master of Science (M.Sc.) degree in Electrical/Electronics/Computer Engineering from a recognized University or equivalent Institution.
(b) In addition to (d), a comprehensive research proposal is to be submitted to the Department.

*Graduation Requirements:*

To graduate at the Ph.D. level, a student must complete all PG and Departmental requirements. In addition, a student must satisfy the following:

a) Presentation of a Research Proposal
b) Presentation of at least three (3) Seminars on the Research
c) Completion and Defence of Dissertation to the satisfaction of internal and external examiners as well as to the PG Board and Senate.
d) Any additional requirements as may be specified from time to time.

The total minimum requirement for a Ph.D. Electrical Engineering degree comprises 24+ credits units for the dissertation.

*Course Structure*

| Course Code | Title | Credit Unit |
|---|---|---|
| **Semester 1** | | |
| COEN 981, 983, 985 | Seminar I, III, V, VII (1CU/Semester) | 1 |
| COEN 991, 993, 995 | Research/Dissertation I, III, V, VII (6CU/Semester) | 6 |
| **Semester 2** | | |
| COEN 982, 984, 986, | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| COEN 992, 994, 996 | Research/Dissertation II, IV, VI, VIII (6CU/Semester) | 6 |

## 5.7. DEPARTMENT OF MECHANICAL ENGINEERING

**5.7.1 PGD Mechanical Engineering**

**5.7.2 PGD Oil and Gas Operations Management**

**5.7.3 PGD Pipeline and Welding Engineering**

**5.7.4 PGD Safety Engineering and Disaster Control**

### 5.7.5 MSc Mechanical Engineering

*Admission Requirement*

(a) M.Sc. (Production Engineering)

At least a Second Class (Honours) Degree in Mechanical Engineering, productionEngineering or any related degree of Ahmadu Bello University or of any other recognised university.

(b) M.Sc. (Energy Studies)

At least a Second Class (Honours) Degree in Mechanical Engineering or any relatedDegree of Ahmadu Bello University or of any other recognised University.

*Graduation Requirements*

A candidate must achieve, in the written (or continuously assessed) examinations, at least 50% in each of the subjects. In addition, a student must pass an oral examination of the thesis conducted by a panel of both internal and external examiners.

*Course Structure*

**M.Sc. (Energy Studies Option)**

**Semester 1**

| Code | Course title | CU |
|---|---|---|
| MEEN 801 | Heat Transfer | 3 |
| MEEN 803 | Thermodynamics | 3 |
| MEEN 805 | Fluid Mechanics | 3 |
| MEEN 807 | Solar Energy | 3 |
| MEEN 809 | Internal Combustion Engines | 3 |
| MEEN 821 | Numerical Analysis and Computation | 3 |
| MEEN 881, 883 | Seminar I & III (1cu/semester) | 1 |
| MEEN 891, 893 | Research/Thesis I & III (2cu/semester) | 2 |
| | **Total** | **18** |

**Semester 2**

| Code | Course Title | CU |
|---|---|---|
| MEEN 802 | Mass Transfer | 3 |
| MEEN 804 | Thermal Power Plants | 3 |
| MEEN 806 | Fuels and Combustion | 3 |
| MEEN 808 | Misc. Power Plants & Power Plants Mgt. | 3 |
| MEEN 810 | Production Mgt & Economics | 3 |
| MEEN 818 | Research Methods | 3 |
| MEEN 820 | Quality Control, Reliability and Ergonomics | 3 |
| MEEN 882, 884 | Seminar II & IV (1cu/semester) | 1 |
| MEEN 892, 894 | Research/Thesis II & IV (2cu/semester) | 2 |

**(b) M.Sc. (Production Engineering Option)**

**Semester 1**

| Code | Course Title | CU |
|---|---|---|
| MEEN 811 | Forming Processes | 3 |
| MEEN 813 | Design for Production | 3 |
| MEEN 815 | Measurements | 3 |
| MEEN 817 | Industrial Finishing Processes | 3 |
| MEEN 819 | Advanced Joining | 3 |
| MEEN821 | Numerical Analysis and Computation | 3 |
| MEEN 881, 883 | Seminar I & III (1cu/semester) | 1 |
| MEEN 891, 893 | Research/Thesis I & III (2cu/semester) | 2 |

**Semester 2**

| Code | Course Title | CU |
|---|---|---|
| MEEN 810 | Production Management & Economics | 3 |
| MEEN 812 | Advanced Casting | 3 |
| MEEN 814 | Machine Tools | 3 |

| | | |
|---|---|---|
| MEEN 816 | Advanced Control | 3 |
| MEEN 818 | Research Methods | |
| MEEN820 | Quality Control, Reliability and Ergonomics | 3 |
| MEEN822 | Materials Selection and Costing | 3 |
| MEEN 882, 884 | Seminar II & IV (1cu/semester) | 1 |
| MEEN 892, 894 | Research/Thesis II & IV (2cu/semester) | 2 |

**5.7.6 M.Sc. Engineering Management**

**5.7.7 M.Sc. Mechatronics**

**5.7.8 M.Sc.Oil and Gas Operations Management**

**5.7.9 M.Sc.Pipeline and Welding Operations**

**5.7.10 M.Sc.Safety Engineering and Disaster Control**

**5.7.12 PhD. Mechanical Engineering**

*Admission Requirement*

A relevant Master's degree of Ahmadu Bello University or any other recognised university.

*Graduation Requirements*

A candidate is required to satisfactorily defend his researched Dissertation before a panel of external and internal examiners.

*Course Structure*

| **Course Code** | **Title** | **Credit Unit** |
|---|---|---|
| **Semester 1** | | |
| MEEN 981, 983, 985, 987, 989 | Seminar I, III, V, VII, IX (1CU/Semester) | 1 |
| MEEN 991, 993, 995, 997, 999 | Research/Thesis I, III, V, VII, IX(6CU/Sem) | 6 |
| | | |
| **Semester 2** | | |
| MEEN 982, 984, 986, 988 | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| MEEN 992, 994, 996, 998 | Research/Thesis II, IV, VI, VIII (6CU/Sem. | 6 |

## 5.8. DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

**Postgraduate Diploma in Metallurgical and Materials Engineering (PGD MMEN)**

*Admission Requirement*

The prospective candidates for the programme must possess any of the following academic qualifications:

i. Higher National Diploma in Metallurgical & Materials, Engineering with a minimum of Lower credit grade from recognized Polytechnic.
ii. Bachelor of Engineering degree in Metallurgical & Materials, Mechanical and Production Engineering with third class grade from a recognized University.
iii. Any other relevant qualification as considered by the University.

iv Possess the School Certificate (SC) or the General Certificate of Education, Ordinary Level (GCE "O") with passes at credit level in at least five subjects obtained at not more than two sittings and at least a credit in English Language. The five subjects should include Mathematics, Chemistry and Physics.

*Graduation Requirement*

(i) To qualify for the award of PDG-MMEN, a candidate must have been credited with at least 60 CU of compulsory courses listed below, which include the project report.

(ii) The project which will be in the form of design project for the professional PGD MMEN shall be orally defended as laid down in the university regulations. The format and number of copies to be submitted must conform to the university regulations.

*Duration of Programme*

The programme will be run in four (4) semesters within a minimum of 24 months and maximum of 30 months.

*Course Structure*

**First Semester**

| Course Code | Courses Title | Credit Units | Status |
|---|---|---|---|
| MMEN 701 | Elements of Engineering Materials | 3 | Core |
| MMEN 703 | Production Metallurgy | 2 | Core |
| MMEN 705 | Mineral Processing | 3 | Core |
| MMEN 707 | Engineering Drawing | 2 | Core |
| MMEN 709 | Numerical Method & Computer Programming | 2 | Core |
| MMEN 711 | Production Management | 2 | Core |
| MMEN 725 | Engineers Mathematics I | 2 | Core |
| **Total** | | **16** | |

**Second Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| MMEN 702 | Ferrous Extractive Metallurgy | 3 | Core |
| MMEN 704 | Foundry Technology | 3 | Core |
| MMEN 706 | Non-metallic Materials | 2 | Core |
| MMEN 708 | Heat Treatment of Materials | 3 | Core |
| MMEN 710 | Corrosion Engineering | 2 | Core |
| MMEN 712 | Materials Selection &Economics | 2 | Core |
| Total | | **15** | |

**Third Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| MMEN 713 | Physical Metallurgy | 3 | Core |
| MMEN 715 | Non-ferrous extractive Metallurgy | 3 | Core |
| MMEN 717 | Fuel, Furnaces & Refractories | 3 | Core |
| MMEN 719 | Statistics for Engineers | 2 | Core |
| MMEN 721 | Metallurgical Thermodynamics | 2 | Core |
| MMEN 723 | Metallurgical Laboratory I | 2 | Core |
| **Total** | | **15** | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| MMEN 714 | Fracture Mechanics & Failure Analysis | 2 | Core |
| MMEN 716 | Seminar (Technical Report Writing) | 1 | Core |
| MMEN 718 | Metallurgical Laboratory II | 2 | Core |
| MMEN 720 | Engineers in Society | 1 | Core |
| MMEN 722 | Engineers Mathematics II | 2 | Core |
| MMEN 724 | Materials Processing & Plant Design | 3 | Core |
| MMEN 726 | Project | 3 | Core |
| **Total** | | **14** | |

**Elective Courses**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|

| | | | |
|---|---|---|---|
| MMEN 727 | Materials Handling | 2 | |
| MMEN 728 | Waste Treatment and Disposal | 2 | |

### 5.8.1 MSc. Metallurgical and Materials Engineering

*Admission Requirement*

It is a two year course; intending candidates must have studied and passed relevant disciplines, in engineering field with minimum degree of 2-2. Other Engineering discipline may be considered for admission provided such potential candidates must be ready to do the make-up undergraduate courses which he/she lacks. The courses include Corrosion, Steelmaking, Physical Metallurgy (Ferrous), Structural Metallurgy, Mechanical Working of Metals and Mechanical Metallurgy II. While a third class degree of Ahmadu Bello University is equally eligible to apply after five years of graduation such a candidate must have worked within the engineering field to update himself/herself. Courses offered cover three areas of specialization: Process, Physical, Mechanical, Metallurgy and Materials.

*Course Structure*

**Semester 1**

| Courses code | Course Title | Credit Unit | Status |
|---|---|---|---|
| **General** | | | |
| MMEN 801 | Advanced Heat Treatment | 3 | General |
| MMEN 803 | Composition Material | 3 | General |
| MMEN 805 | X-Ray Methods | 3 | General |
| MMEN 807 | Experimental Technique (Process,Physical and Mechanical) | 3 | General |
| MMEN 809 | AdvancedIron and Steel Making | 3 | General |
| MMEN 881, 883 | Seminar I & III (1cu/semester) | 1 | General |
| MMEN 891, 893 | Research/Thesis I & III (4cu/semester) | 4 | General |
| **Option A: Process** | | | |
| MMEN 811 | Metallurgical process Plant Design | 3 | Process |
| MMEN 815 | Surface Coating & Thin Film Technology | 3 | Process |
| **Option B: Physical** | | | |
| MMEN 821 | Advanced Phase Transformation | 3 | Physical |
| MMEN 823 | Advanced Casting and Welding | 3 | Physical |
| **Option C: Mechanical** | | | |
| MMEN 831 | Fracture Mechanics & Failure Analysis | 3 | |
| | **TOTAL** | **26** | |

**Semester 2**

| Courses code | Course Titles | Credit Unit | Status |
|---|---|---|---|
| **General:** | | | |
| MMEN 802 | General Principles of Metal Working | 3 | General |
| MMEN 804 | Adv. Mineral Processing | 3 | General |
| MMEN 806 | Advanced Corrosion | 3 | General |
| MMEN 808 | Environmental Impact Assessment | 3 | General |
| MMEN 882, 884 | Seminar II & IV (1cu/semester) | 1 | General |
| MMEN 892, 894 | Research/Thesis II & IV (4cu/semester) | 4 | General |
| **Option A: Process** | | | |
| MMEN812 | Advanced Non Ferrous Extractive Metallurgy | 3 | Process |
| | | | |
| **Option B: Physical** | | | |
| MMEN 822 | Interfacial Phenomena in Materials | 3 | Physical |
| | | | |
| **Option C: Mechanical** | | | |
| MMEN 832 | Dislocation Theory | 3 | Mechanical |
| | **TOTAL** | **20** | |

**5.8.2 Ph.D. Metallurgical and Materials Engineering**

*Programme Structures*

Minimum of three years. Candidate must have M.SC (Metallurgical or Materials or Production Engineering) with relevant disciplines in Metallurgy. The average score of B or CGPA of 3.50 (5 point scale) in his/her M.Sc. Programme.

*Course Structure*

**Semester 1**

| Courses code | Course Titles | Credit Unit |
|---|---|---|
| MMEN 901 | Modelling and Simulation (Process, Physical and Mechanical) | 3 |
| ENG 901 | Advanced Research Methods | 3 |
| MMEN 981, 983,985, 987, 989 | Seminar I, III, V, VII & IX (1cu/semester) | 1 |
| MMEN 991, 993,995, 997, 999 | Research/DissertationI, III, V, VII & IX | 6 |

**Semester 2**

| Courses code | Course Titles | Credit Unit |
|---|---|---|
| MMEN 902 | Advanced Experimental Techniques(Process, Physical and Mechanical) | 3 |
| MMEN 904 | Advanced Environmental Impact Assessment | 3 |
| MMEN 982, 984,986, 988, | Seminar II, IV, VI, VIII (1cu/semester) | 1 |
| MMEN 992, 994,996, 998, | Research/DissertationII, IV, VI, VIII | 6 |

## 5.9 DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

**5.9.1 PGD Water Resources Engineering and Management and 5.9.2PGD Environmental Engineering and Management**

*Admission Requirement*

The post graduate Diploma would be termed Conversion and Professional PGDs.

(a) The conversion programme is targeted at HND (Minimum Upper Credit) and 3rd Class degree holders in Water Resources, Civil, Agricultural and Mechanical Engineering, as well as graduates with a minimum of 2nd Class Lower Degree in Chemistry, Physics, Geology and Geography with requisite working experience.

(b) The Professional programme shall admit matured and experienced students working in allied fields with minimum of Lower Credit at HND (NBTE Accredited) in Water Resources, Civil, Agricultural and Mechanical Engineering, as well as graduates with minimum of 2nd Class lower Degree in Chemistry, Physics, Geology and Geography with requisite working experience.

(c) Candidate from the listed allied fields may be required to take elective courses from amongst the undergraduate courses

(d) Additionally, students must satisfy the O'level requirements of five credits including English, Mathematics, Physics, Chemistry and any one other science subject

*Graduation Requirement*

- To be awarded the PGD, candidates are expected to have passed all taught courses.
- A candidate who fails any course at the end of the semester will be required to re-sit the written examination in the relevant taught course. These examinations will be graded on a pass or fail basis and every re-sit paper passed will be credited with 50%
- The thesis which will be in the form of design projects for the professional PGD and full blown for the conversion PGD shall be orally defended as laid down in the university regulations. The format and number of copies to be submitted must conform to the university regulations.

*Course Structure*

**First semester courses (Common to all Options):**

| Course Code | Course Title | CU |
|---|---|---|
| WREN 701 | Introduction to Industrial Processes and Safety | 2 |
| WREN 703 | Introduction to Environmental Pollution Control | 2 |
| WREN 705 | Information Management and Computer Applications | 2 |
| WREN 707 | Environmental Impact Assessment (E.I.A.) | 2 |
| WREN 709 | Statistics and Algebra | 2 |
| WREN 781 | Seminar I | 1 |
| WREN 791 | Research/Project I | 3 |

**Second semester courses (Environmental Engineering and Management):**

| Course Code | Course Title | C. U |
|---|---|---|
| WREN 702 | Industrial Water and Wastewater Engineering I | 2 |
| WREN 704 | Industrial Safety Facilities, Evaluation and costing | 2 |
| WREN 706 | Industrial, Safety and Water Laws | 2 |
| WREN 708 | Environmental Management and Economics | 2 |
| WREN 710 | Occupational and Environment Diseases /Health | 2 |
| WREN 782 | Seminar II | 1 |
| WREN 792 | Research/Project II | 3 |
| | | |

**Second semester course (Water Resources Engineering and Management):**

| Course Code | Course Title | C.U |
|---|---|---|
| WREN 714 | Numerical Analysis | 2 |
| WREN 716 | Water Law and Economics | 2 |
| WREN 718 | Hydraulics | 2 |
| WREN 720 | Engineering Hydrology | 2 |
| WREN 722 | Hydraulic Structures | 2 |
| WREN 782 | Seminar II | 1 |
| WREN 792 | Research/Project II | 3 |

**Electives Courses:**

| Course Code | Course Title | C.U |
|---|---|---|
| WREN 713 | Aspects of Industrial Management | 2 |
| WREN715 | Facilities Management | 2 |
| WREN 726 | Engineering Measurements | 2 |
| WREN 730 | Calculus | 2 |
| WREN 732 | Basic computations in safety engineering | 2 |

**Note:** The courses whose codes end with odd numbers would be offered in first semester and the ones ending with even numbers are proposed for the second semester.

### 5.9.3 M.Sc. Water Resources and Environmental Engineering

*Admission Requirements*

Candidates with the following qualifications may seek admission and registration for Master's Degree in Water Resources and Environmental Engineering.

(i) Holders of first degree in Water Resources and Environmental Engineering, Civil Engineering and Agricultural Engineering of Ahmadu Bello University, with first or second class honors degrees or a good pass for unclassified degrees, may seek admission into the three available options (Hydraulics and Engineering Hydrology; Environmental Engineering; and Irrigation and Drainage Engineering).

(ii) Holders of first degree in Chemical Engineering and Mechanical Engineering of Ahmadu Bello University, with first or second class honors or a good pass for unclassified degrees, may seek admission into the Environmental Engineering option.

(iii) Holders of equivalent qualifications from other Universities may be considered as in (i) and (ii) above.

(iii) Holders of any other qualifications which, together with relevant experience, are deemed by the Faculty Board, Postgraduate School Board and Senate to be equivalent to (i) and (ii) above.

*Graduation Requirements*

To graduate, a student must complete all Faculty and Departmental requirements. In addition a student must successfully defend a thesis before a panel of both Internal and External Examiners. A minimum of 50% grade is required for all courses to graduate.The total requirement for M.Sc. Water resources and Environmental Engineering degree is 37 Credits

*Course Structure*

**Core Departmental Courses**

**Semester 1:**

| Course Code | Course Title | C. U |
|---|---|---|
| WREN 801 | Hydraulics I | 2 |
| WREN 803 | Engineering Hydrology | 2 |
| CVEN 803 | Numerical Methods | 3 |
| WREN 805 | Principles of Water Quality | 2 |
| WREN 807 | Water Law, Management And Economics | 2 |
| WREN 891, 893 | Research/Thesis I & III | 4/Semester |
| WREN 881, 883 | Seminar I & III | 1 |

**Semester 2**

**Course work Specialization Options**

| **Hydraulics And Engineering Hydrology** | | |
|---|---|---|
| **Course Code** | **Course Title** | **C. U** |
| WREN 802 | Ground Water Modelling | 3 |
| WREN 804 | Dams Designs And Reservoir Operations | 2 |
| WREN 806 | Catchment Modelling | 2 |
| WREN 808 | Hydraulics Ii | 3 |
| WREN 810 | Environmental Impact Assessment | 2 |
| WREN 814 | Hydroinformatics | 2 |
| WREN 882, 884 | Seminar II & IV | 1 |
| WREN 892, 894 | Research/Thesis II & IV | 4/Semester |
| **Irrigation And Drainage Engineering** | | |
| WREN 802 | Ground Water Modelling | 3 |
| WREN 804 | Dams Designs And Reservoir Operations | 2 |
| WREN 808 | Hydraulics Ii | 3 |
| WREN 810 | Environmental Impact Assessment | 2 |
| WREN 816 | Land Drainage Conservation And Reclamation | 2 |
| WREN 826 | Design Of Irrigation Systems | 2 |
| WREN 882, 884 | Seminar II & IV | 1 |
| WREN 892, 894 | Research/Thesis II & IV | 4/Semester |
| **Environmental Engineering** | | |
| | | |
| WREN 810 | Environmental Impact Assessment | 2 |
| WREN 818 | Environmental Pollution Control | 3 |
| WREN 820 | Water Treatment And Supply | 2 |
| WREN 822 | Waste Treatment And Disposal | 2 |
| WREN 824 | Elements Of Public Health | 2 |
| WREN 826 | Industrial Water Engineering | 2 |
| WREN 882, 884 | Seminar II & IV | 1 |
| WREN 892, 894 | Research/Thesis II & IV | 4/Semester |

**5.9.2 Ph.D. (Water Resources and Environmental Engineering)**

*Admissions Requirements*

Candidates for Ph.D. Water Resources and Environmental Engineering Programme must be holders of good Master's Degree (minimum of 3.5/5 grade), from reputable higher institutions both in Nigeria and from other countries with good and actualizable research proposals. They must possess the requisite O'level requirement of five (5) credits in English Language, Physics, Chemistry, Mathematics and any other science subject and/or A'level passes in at least two courses (of Chemistry, Mathematics and Physics).

*Graduation Requirements*

A Ph.D. candidate is expected to present a proposal for his Dissertation at the commencement of the programme, after which he would be expected to provide progress reports and at least two seminars before being presented for external examination.

*Course Structure*

**Hydraulics and Engineering Hydrology Option**

| Course Code | Course Title | C.U |
|---|---|---|
| WREN 901 | Advanced Mathematical Analysis | 3 |
| WREN 903 | Advanced Hydro Informatics | 3 |
| WREN 905 | Advanced Hydraulics | 3 |
| WREN981 -989 | Seminar I - IX | 1/Semester |
| WREN 991- 999 | Research/Dissertation I - IX | 6/Semester |
| | | |

**Environmental Engineering Option**

| Course Code | Course Title | C.U |
|---|---|---|
| WREN 907 | Bioremediation | 3 |
| WREN 909 | Environmental Management | 3 |
| WREN 911 | Environmental Management | 3 |
| WREN 981-989 | Seminar I - IX | 1/Semester |
| WREN 991-999 | Research/Dissertation I - IX | 6/Semester |

## CHAPTER 6

## FACULTY OF ENVIRONMENTAL DESIGN

## 6.1 DEPARTMENT OF ARCHITECTURE

### 6.1.1 The Post Graduate Diploma in Landscape Architecture (PGDLA)

*Admission Requirements:*
Post Graduate Diploma in Landscape Architecture (PGDLA)
Bachelor of Science/Arts degree with minimum of 2:2 from an accredited University degree programme.

*Graduation Requirement:*
The PGDLA Programme, a student is required to earn a minimum of 30 credit units which include all core/cognate, elective courses and final project.

*Course Structure*
**Year 1 (First Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| **PDLA-701** | Design Studio Principles | 3 | CO |
| **PDLA-703** | Design Studio 2: Graphic Representations | 3 | CO |
| **PDLA-705** | Introduction to Landscape Architecture | 2 | CT |
| **PDLA-711** | Soils, Plants and Horticulture | 2 | CT |
| **PDLA-713** | Landuse and Landscape Planning | 2 | CT |
| **PDLA-707** | Landscape Technology | 2 | E |
| **PDLA-715** | Fundamentals of Ecology | 2 | |
| **DARC 781** | Seminar (1cu/semester) | 1 | |
| **DARC 791** | Research/Project (2cu/semester) | 2 | |
| | Electives | 2 | |

**Year 1: (Second Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| **PDLA-704** | Design Studio: Small Scale Interventions | 3 | CO |
| **PDLA-706** | Design Studio: Independent Project | 6 | CO |
| **PDLA-718** | Plants and Planting Design | 2 | CT |
| **PDLA-708** | Advanced Landscape Technology | 2 | CT |
| **PDLA-722** | Computer-Aided-Design: Theory | 2 | CT |
| **DARC-714** | Professional Practice I: | 2 | CT |
| **DARC 782** | Seminar (1cu/semester) | 1 | |
| **DARC 792** | Research/Project (2cu/semester) | 2 | |

### 6.1.2 M.Sc.Architecture

*Admission Requirements:*

1. Either Bachelor of Science (B.Sc.) Degree in Architecture with a minimum of Second Class Lower (2:2) from Ahmadu Bello University or a recognized University.
2. In addition to either of the above, a candidate must have credits in English Language, Mathematics and Physics plus two others in the Senior Secondary Certificate Examination (SSCE)

*Special Admission*

1. Bachelor of Science (B.Sc.) Degree in Architecture with a Third Class plus minimum of five (5) years working experience.
2. In addition to the above, a candidate must have credits in English Language, Mathematics and Physics plus two others in the Senior Secondary Certificate Examination (SSCE)

*Course Structure*
**First Semester**

| S/N | Course Code | Course Title | Credit Units | Status |
|---|---|---|---|---|
| 1 | ARCH801 | Architectural Design | 4 | CORE |

| | | | | |
|---|---|---|---|---|
| 2 | ARCH803 | Building Construction Systems | 3 | CORE |
| 3 | ARCH805 | Adv. Reinforced Concrete Structures | 3 | CORE |
| 4 | ARCH 881 | Seminar 1 | 1 | CORE |
| 5 | ARCH 891 | Research/Thesis 1 | 4 | CORE |
| **TOTAL** | | | **15** | |
| **Cognate Courses** | | | | |
| 6 | ARCH811 | Arch. Research Methods | 2 | CT |
| 7 | ARCH813 | Technical Report Writing | 2 | CT |
| 8 | ARCH815 | Building Services | 2 | CT |
| 9 | ARCH817 | Professional Practice I | 2 | CT |
| 10 | ARCH819 | Urban Form & Processes | 2 | CT |
| **TOTAL** | | | **10** | |
| **Electives (Areas of Specialization)** | | | | |
| | ARCH827 | Building System and Energy Conservation | 2 | EL |
| | ARCH843 | Restoration Studies | 2 | EL |
| | ARCH845 | Architect as Developer and Project Manager | 2 | EL |
| | ARCH847 | Contemp. Arch. Theories | 2 | EL |
| **GRAND TOTAL** | | | **27** | |

**Second Semester**

| S/N | Course Code | Course Title | Credit Units | Status | Remarks |
|---|---|---|---|---|---|
| 1 | ARCH802 | Architectural Design | 4 | CORE | 802/807 |
| 2 | ARCH804 | Building Construction Systems | 3 | CORE | 803/804 |
| 3 | ARCH882 | Seminar II | 1 | CORE | |
| 4 | ARCH892 | Research/Thesis II | 4 | CORE | |
| 5 | ARCH806 | Adv. Steel Structures | 3 | | |
| **TOTAL** | | | **15** | | |
| 3 | ARCH812 | Project and Site Management | 2 | CT | 805/806 |
| 4 | ARCH814 | Sustainable Architecture Design | 2 | CT | |
| 7 | ARCH816 | Cost Monitoring | 2 | CT | |
| 8 | ARCH818 | Professional Practice II | 1 | CT | |
| **TOTAL** | | | **7** | | |
| **Elective (Choose between two and three Elective Courses for Areas of Specialization)** | | | | | |
| | ARCH822 | Contemporary Urban forms & Structure | 2 | EL | |
| | ARCH824 | Contemporary Nigeria Architecture | 2 | EL | |
| | ARCH826 | Digital Fabrication | 2 | EL | |
| | ARCH832 | Glass/Plastic Structures | 2 | EL | |
| | ARCH834 | Case Study in African Settlements and Architecture | 2 | EL | |
| | ARCH836 | Advanced Lighting | 2 | EL | |
| | ARCH838 | Housing Development Earthen Structures | 2 | EL | |
| **GRAND TOTAL** | | | **26** | | |

**Third Semester**

| S/N | Course Code | Course Title | Credit Units | Status | Remarks |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 1 | ARCH893 | Research/Thesis | 4 | CORE | 802/807 |
| 4 | ARCH883 | Thesis Seminar | 2 | CORE | 803/804 |
| 5 | ARCH815 | Adv. Wooden Structures | 3 | | |
| **TOTAL** | | | **9** | | |
| **Choose between two and three Elective Courses for Areas of Specialization** | | | | | |
| | ARCH821 | Design Development | 2 | EL | |
| | ARCH822 | Detailing Specification Writing | 2 | EL | |
| | ARCH825 | Classical Architecture Theories | 2 | EL | |
| | ARCH827 | Building Systems and Energy Conversation | 2 | EL | |
| | ARCH829 | Environmental Design Simulation | 2 | EL | |
| | ARCH831 | Tourism and Recreational Facilities | 2 | EL | |
| | ARCH833 | Urban Ecology | 2 | EL | |
| | ARCH835 | Plastic Architecture | | EL | |
| **GRAND TOTAL** | | | **14** | | |

**Fourth Semester**

| S/N | Course Code | Course Title | Credit Units | Status | Remarks |
|---|---|---|---|---|---|
| 1 | ARCH894 | Research/Thesis | 4 | CORE | 802/807 |
| 2 | ARCH884 | Thesis Seminar | 1 | CORE | 803/804 |
| | | | | | |
| | | | **5** | | |

### 6.1.3 Masters in Landscape Arch. Programmes (MLA)

*Admission requirement:*

Bachelor of Science degree with minimum of 2:2 from an accredited University in any of the related studio based disciplines (Faculty of Environmental Design). However, those who possess 3rd class degree may be admitted after 5 year of cognate experience or acquisition of a PGD.

*Graduation requirement:*

For the MLA Programme, a student is required to earn a minimum of 45 credit units which include all core/cognate, elective courses and final theses writing & project.

*Course Structure*

**Year 1 (First Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| LARC-801 | Design Studio: Small scale Interventions | 4 | CO |
| LARC-811 | Landscape for Housing | 3 | CT |
| LARC-813 | Landscape of commerce and industry | 3 | CT |
| LARC 815 | Landscape Arch. Theory | 2 | CT |
| LARC-817 | Advanced Landscape Technology | 2 | CT |
| LARC-819 | Landscape construction | 2 | CT |
| | **Electives** | | |
| | Total | 2 | E |
| | Seminar (1cu/semester) | (18) | |
| LARC 881, | Research/Thesis (2cu/semester) | 1 | |
| LARC 891, | | 2 | |

**Second Semester**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| LARC-802 | Design Studio 4: Town/Urban Scale | 6 | CO |
| LARC-812 | Advanced Landscape Ecology | 2 | CT |
| LARC-814 | Landuse and Landscape Planning | 2 | CT |
| LARC-816 | Plants and Planting design | 2 | CT |
| LARC-818 | Computer Applications | 2 | CT |
| LARC-820 | Landscape Research Methodology | 2 | CT |
| LARC-822 | Professional Practice – II | 2 | CT |
| | Electives | 2 | |
| | Total | (18) | E |
| LARC 882, | Seminar (1cu/semester) | 1 | |
| LARC 892, | Research/Thesis (2cu/semester) | 2 | |

**Year 2: Semester 1**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| LARC- | Design Studio 1: Rebuilding Disturbed Lands | 6 | CO |
| LARC | Regional Landscape Design | 4 | CO |
| LARC- | Advanced Land Use and Landscape Planning | 2 | |
| LARC- | Watershed and waterside Development | 2 | CO |
| LARC- | Professional Practice —III | 2 | CT |
| LARC- | Computer Applications II | 2 | CT |
| | Total | (18) | |
| LARC 883 | Seminar (1cu/semester) | 1 | |
| LARC 893 | Research/Thesis (2cu/semester) | 2 | |

**Semester 2**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| LARC-802 | Design Studio 4: Town/Urban Scale | 6 | CO |
| LARC-812 | Advanced Landscape Ecology | 2 | CT |
| LARC-814 | Landuse and Landscape Planning | 2 | CT |
| LARC-816 | Plants and Planting design | 2 | CT |
| LARC-818 | Computer Applications | 2 | CT |
| LARC-820 | Landscape Research Methodology | 2 | CT |
| LARC-822 | Professional Practice – II | 2 | CT |
| | Electives | 2 | |
| | Total | **(18)** | E |
| | | | |
| LARC-802 | Thesis Research | 6 | CO |
| LARC-804 | MLA Project | 12 | CO |
| | Total | (18) | |
| LARC 884 | Seminar (1cu/semester) | 1 | |
| LARC 894 | Research/Thesis (2cu/semester) | 2 | |

**6.1.4 Masters in Urban Design (M.U.D)**

*Admission Requirements:*

Bachelor of Science degree with minimum of 2:2 (Second Class Lower) from an accredited University in a related studio based disciplines (Architecture and Urban Planner)

*Graduation Requirement*

A student is required to earn a minimum of 50 credit units which include all core/cognate, elective courses and final theses writing and project.
Total (Minimum) Credit Units Earned (TCUE) 45CU

*Course Structure*

**Year 1 (First Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| MUDN-801 | Urban Design Studio–I | 4 | CO |
| MUD-805 | History of Urban Space Structure and Form | 2<br>2 | CO<br>CO |
| MUD-807 | Transportation Planning and Management | 2 | CT |
| MUD-811 | Municipal Finance Management | 2 | |
| | Electives | 12 | EL |
| MUDN 881 | Seminar (1cu/semester) | 1 | |
| MUDN 891 | Research/Thesis (2cu/semester) | 2 | |

**Year 1 (Second Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| MUD-802 | Urban Design Studio–II | 4 | CO |
| MUD-806 | Contemporary Urban Space Structure and Form | 2 | CO |
| MUD-808 | Exposition in Urban Design and Sustainable Environment | 2 | CO |
| MUD-818 | Recreational Planning and Management | 2 | CO |
| | Electives | 2<br>12 | EL |
| MUDN 882 | Seminar (1cu/semester) | 1 | |
| MUDN 892 | Research/Thesis (2cu/semester) | 2 | |

**Year 2(Third Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| MUD-803 | Urban Design Studio–III | 4 | CO |
| MUD-800 | Research Proposal Seminar | 2 | CO |
| MUD-851 | Case Studies in Urban Design | 2 | CO |
| MUD-853 | Transformation in Urban Design | 2 | CO |
| | Electives | 12 | EL |
| MUDN 883 | Seminar (1cu/semester) | 1 | |
| MUDN 893 | Research/Thesis (2cu/semester) | 2 | |

**Fourth Semester**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| MUD-804 | Professional Practice in Urban Design | 2 | CO |
| MUDN 884 | Seminar (1cu/semester) | 1 | CO |
| MUDN 894 | Research/Thesis (2cu/semester) | 2 | CO |

**Electives**

| Courses | Course Description | Credit Unit | Status |
|---|---|---|---|
| MUD–822 | Land Resources Evaluation Techniques | 2 | EL |
| MUD–830 | Industrial location Studies | 2 | EL |

| | | | |
|---|---|---|---|
| MUD–849 | Urban Renewal | 2 | EL |
| MUD–867 | Development Policy and Social Changes | 2 | EL |
| ARCH–843 | Advanced Photography | 2 | EL |
| ARCH–871 | Historical Presentation | 2 | EL |
| ARCH–834 | Islamic Architecture and Urbanism | 2 | EL |
| ARCH–831 | Traditional African Architecture and Art Criticism | 2 | EL |
| ARCH–833 | Twentieth Century African Architecture | 2 | EL |

**6.1.5Ph.D. (Architecture)**

*Admission Requirements*

i. Either, hold a Master's Degree in Architecture or related field with a high standing (CGPA of 3.5 and above) from a recognized Universities.

ii. Or hold a professional degree in Architecture such as, the Bachelor of Architecture or its equivalent with a high standing (CGPA of 3.5 and above) from a recognized institution of higher learning.

*Graduation Requirement:*

The doctoral programme requires the satisfactory completion of required course work, field research and thesis. The total package consists of:

| | | |
|---|---|---|
| i. | Core Courses | 12 – 15 Credits |
| ii. | Cognate Courses | 16 – 18 Credits |
| iii. | Elective Component | 6 – 12 Credits |
| iv. | Field Work | 12 Credits |
| v. | Dissertation | 12-18 Credits |
| | Total = | 70 – 81 |

*Major areas of specialization includes:*

i. History and Theory of Architecture
ii. Traditional Architecture: Preservation and Conservation;
iii. Environmental Technology and Building material Research;
iv. Facility Research Design and Analysis;
v. Housing and Community Development;
vi. Professional Practice and Administration.

*Course Structure*

**Year 1 (First Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| ARCH-901 | Recent Development in Architecture | 3 | CO |
| ARCH-803 | Architectural Research | 3 | CO |
| ARCH-905 | Research Methods in Social Sciences | 3 | CO |
| ARCH-907 | Writing for Publication | 3 | CO |
| ARCH-913 | Architectural Education | 2 | CT |
| | Electives | 14 | EL |
| ARCH 981,983,985 | Seminar (1cu/semester) | 1 | |
| ARCH 991,993,995 | Research/Dissertation (3cu/semester) | 3/Semester | |

**Year 1 (Second Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|

| | | | |
|---|---|---|---|
| ARCH-908 | Elements of Scientific Research | 3 | CO |
| ARCH-912 | Qualitative Methods | 2 | CT |
| ARCH-914 | Quantitative Methods | 2 | CT |
| ARCH-916 | Computer Application in Arch. Research | 2 | CT |
| ARCH-918 | Theory and Philosophy in Architecture | 2 | CT |
| ARCH-900 | Contemporary Practice in Architecture | 2 | CT |
| | | | |
| ARCH 982,984,986 | Seminar (1cu/semester) | 1 | |
| ARCH 992,994,996 | Research/Dissertation (3cu/semester) | 3 | |

**Year 2 (Third Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| ARCH-909 | Comprehensive Research Proposal | | |
| | Seminars | 3 | CO |
| | Cognate Courses in Areas of Specialization (Min. 3 Courses) | 9 | CT |
| ARCH 980-989 | Seminar (1cu/semester) | 1 | |
| ARCH 990-999 | Research/Dissertation (3cu/semester) | 3 | |

**Year 2 (Fourth Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| ARCH-920 | Literature Review | 6 | CO |
| ARCH-922 | Doctoral Seminar – I: Development of Conceptual Framework | 3 | CO |
| ARCH 980-989 | Seminar (1cu/semester) | 1 | |
| ARCH 990-999 | Research/Dissertation (3cu/semester) | 3 | |

Total CU = 21

**Year 3 (Fifth Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| ARCH-921 | Field Work | 6 | CO |
| ARCH 980-989 | Seminar (1cu/semester) | 1 | |
| ARCH 990-999 | Research/Dissertation (3cu/semester) | 3 | |

**Year 3 (Sixth Semester)**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| ARCH 980-989 | Seminar (1cu/semester) | 1 | |
| ARCH 990-999 | Research/Dissertation (3cu/semester) | 3 | |

Total CU = 24
Total CU (6 Semesters) = 72 Requirement for Graduation

## 6.2 DEPARTMENT OF BUILDING

### 6.2.1 Postgraduate Diploma in Building

*Admission Requirements*

i. B. Sc. /B.Tech. with a minimum of Third Class degree in Building from a recognised University.

ii. B. Sc. /B.Tech. with a minimum of Third Class degree in Quantity Surveying, Estate Management, Project Management, Architecture, Civil/Mech/Elect Engineering, Building Surveying and Land Surveying, from a recognized University.

iii. HND with a minimum of Lower Credit in Building, Q/Surveying, Architecture, Estate Management, Project Management and Civil/Mech/Elect Engineering, Building Surveying and Land Surveying from a recognized Polytechnic.

*Graduation Requirements*

A student is expected to earn a minimum of twenty-four credit hours (within the two semesters) in order to graduate. The graduating student will have taken and passed all core course units, the requisite elective courses and project writing. A student may carry over failed courses but there will be no provision for repeat.

*Course structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Semester 1** | | |
| PGDB701 | Building Construction Technology | 2 |
| PGDB703 | Construction Planning and supervision of Contracts | 2 |
| PGDB705 | Concrete Technology | 2 |
| PGDB707 | Construction Labour Management | 2 |
| PGDB709 | Statistical Methods | 2 |
| PGDB711 | Information Technology in Construction | 2 |
| PGDB791 | Research/Project I | 3 |
| **Semester 2** | | |
| PGDB702 | Building Maintenance Technology and Management | 2 |
| PGDB704 | Contract Administration and Supervision | 2 |
| PGDB706 | Financial Management | 2 |
| PGDB708 | Legal aspects of Construction | 2 |
| PGDB782 | Seminar II | 1 |
| PGDB792 | Research/Project II | **3** |
| **Electives** | | |
| PGDB712 | Structural Option | 2 |
| PGDB714 | Management Option | 2 |
| PGDB716 | Services Option | 2 |

### 6.2.2 M.Sc. Construction Management

*Admission Requirements*

i. B. Sc./B.Tech. with a minimum Second Class Lower degree in Building, Quantity Surveying, Construction Engineering, Project Management, Building Surveying, Facilities Management and Civil Engineering from a recognised University.

ii. B. Sc. /B.Tech. with Third Class degree in Building, Quantity Surveying, Construction Engineering, Project Management, Building Surveying, Facilities Management and Civil Engineering from a recognised University plus a minimum of Five years relevant working experience may also be considered.
All candidates must in addition to the admission requirements for the above programmes satisfy the minimum entry requirements for matriculation of Ahmadu Bello University, Zaria i.e. Five relevant Credits including Mathematics and English.

*Graduation Requirement:*

The programme is by course work and research (thesis). It involves two semesters of course work; after which the candidates prepare a thesis on any aspect of the taught courses as may be approved by the Department. The diligent student is expected to complete the programme within 24 months.

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Semester 1 (Core Courses)** | | |
| BLDM801 | Construction Planning & Scheduling | 3 |
| BLDM803 | Modern Management Techniques | 3 |
| BLDM805 | Construction Plant & equipment | 3 |
| BLDM807 | Project Management and Feasibility Studies | 3 |
| BLDM809 | Research Methodology and Statistics | 3 |
| BLDM811 | Advanced Maintenance Management | 3 |
| BLDM815 | Information Technology in Construction | 3 |
| BLDM 881,883 | Seminar (1cu/semester) | 3-6 |
| BLDM 891,893 | Research/Thesis (2cu/semester) | 6-12 |
| **Elective Courses** | | |
| BLDS803 | Environmental Design & Utility Services | 3 |
| BLDM813 | Advanced Labour Management | 3 |
| BLDT807 | Temporary Works | 3 |
| **Semester 2 (Core Courses)** | | |
| BLDM802 | Construction Financial Management | 3 |
| BLDM804 | Organisational Behaviour | 3 |
| BLDM806 | Operational Research | 3 |
| BLDM808 | Contract Administration & Supervision | 3 |
| BLDM810 | Economics in Building | 3 |
| BLDT808 | Advanced Construction Technology II | 3 |
| **Elective Courses** | | |
| BLDF802 | Facilities Management Systems | 2 |
| BLDM812 | Legal Aspects of Construction | 2 |
| BLDT812 | Advanced Concrete Technology | 2 |
| | | |
| BLDM 882, 884 | Seminar (1cu/semester) | 3-6 |
| BLGM 892, 894 | Research/Thesis (2cu/semester) | 6-10 |

### 6.2.4 M.Sc. Construction Technology

*Admission Requirements*

i. B. Sc. /B.Tech with a minimum Second Class Lower degree in Building and Civil/Structural/Architectural Engineering from a recognised University.
ii. B. Sc. /B.Tech with Third Class degree in Building and Civil/Structural Engineering from a recognised University plus a minimum of Five years relevant working experience may also be considered.
All candidates must in addition to the admission requirements for the above programmes satisfy the minimum entry requirements for matriculation of Ahmadu Bello University, Zaria i.e. Five relevant Credits including Mathematics and English.

*Graduation Requirement:*

The programme is by course work and research (thesis). It involves two semesters of course work; after which the candidates prepare a thesis on any aspect of the taught courses as may be approved by the Department. The diligent student is expected to complete the programme within 24 months. The structure of the programme is presented below.

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester (Core Courses)** | | |
| BLDM801 | Construction Planning & Scheduling | 3 |
| BLDM805 | Construction Plant & Equipment | 3 |
| BLDM809 | Research Methodology & Statistics | 3 |
| BLDM815 | Information Technology in Construction | 3 |
| BLDT801 | Advanced Structural Analysis | 3 |
| BLDT803 | Advanced Structural Design I | 3 |
| BLDT805 | Advanced Construction Technology I | 3 |
| BLDT 881, 883 | Seminar (1cu/semester) | 3-6 |
| BLDT 891, 893 | Research/Thesis (2cu/semester) | 6-12 |
| **Elective Courses** | | |
| BLDS803 | Environmental Design & Utility Services | 3 |
| BLDT807 | Temporary Works | 3 |
| BLDM811 | Advanced Maintenance Management | 3 |
| **Second Semester (Core Courses)** | | |
| BLDT804 | Advanced Structural Design II | 3 |
| BLDT806 | Highway Bridge Design and Construction | 3 |
| BLDT808 | Advanced Construction Technology II | 3 |
| BLDT810 | Advanced Foundation | 3 |
| BLDT812 | Advanced Concrete Technology | 3 |
| BLDT814 | Construction Materials | 3 |
| BLDT 882, 884 | Seminar (1cu/semester) | 3-6 |
| BLDT 892, 894 | Research/Thesis (2cu/semester) | 6-12 |
| **Elective Courses** | | |
| BLDF802 | Facilities Management Systems | 3 |
| BLDT816 | Design of Prestressed Concrete | 3 |
| BLDM808 | Contract Administration & Supervision | 3 |

### 6.2.5 M.Sc. Building Services

*Admission Requirements*

i. B. Sc. /B.Tech with a minimum Second Class Lower degree in Building, Electrical and Mechanical Engineering from a recognised University.

ii. B. Sc. with Third Class degree in Building, Electrical and Mechanical Engineering from a recognised University plus a minimum of **Five** years relevant working experience may also be considered.

iii. M. Sc. Architecture.

All candidates must in addition to the admission requirements for the above programmes satisfy the minimum entry requirements for matriculation of Ahmadu Bello University, Zaria i.e. Five relevant Credits including Mathematics and English.

*Graduation Requirements*

The programme is by course work and research (thesis). It involves two semesters of course work; after which the candidates prepare a thesis on any aspect of the taught courses as may be approved by the Department. The diligent student is expected to complete the programme within 24 months. The structure of the programme is presented below.

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester (Core Courses)** | | |
| BLDM809 | Research Methodology & Statistics | 3 |
| BLDM811 | Advanced Maintenance Management | 3 |
| BLDM815 | Information Technology in Construction | 3 |
| BLDS801 | Fluid Services | 3 |
| BLDS803 | Environmental Design and Utility Services | 3 |
| BLDS805 | Energy Studies | 3 |
| BLDS807 | Electrical & Lighting Design Services | 3 |
| BLDS 881, 883 | Seminar (1cu/semester) | 3-6 |
| BLDS 891, 893 | Research/Thesis (2cu/semester) | 6-10 |
| Elective Courses | | |
| BLDS809 | Building Services in Rural Communities | 3 |
| BLDS811 | Building Services for Industries | 3 |
| BLDT807 | Temporary Works | 3 |
| **Second Semester (Core Courses)** | | |
| BLDM808 | Operational Research | 3 |
| BLDS802 | Air Conditioning Principles & Systems | 3 |
| BLDS804 | Heat Transfer Principles & Applications | 3 |
| BLDS806 | Control Systems | 3 |
| BLDS808 | Telecommunication Services in Buildings | 3 |
| BLDS810 | Design Studies | 3 |
| BLDS 882, 884 | Seminar (1cu/semester) | 3-6 |
| BLDS 892, 894 | Research/Thesis (2cu/semester) | 6-10 |
| Elective Courses | | |
| BLDF802 | Facilities Management Systems | 3 |
| BLDM808 | Contract Administration & Supervision | 3 |
| BLDM812 | Legal Aspects of Construction | 3 |

### 6.2.6 Masters in Facility Management

*Admission Requirements*

i. B. Sc. /B.Tech with a minimum of Second Class Lower degree in Building, Facilities Management, Quantity Surveying, Estate Management, Architecture, Project Management, Building Surveying and Civil/Mech/Elect/Architectural/Construction Engineering from a recognized University.
ii. B. Sc. /B.Tech with a minimum of Third Class degree in Building or related fields as stated in (i) above from a recognized University plus a Postgraduate Diploma in Building or Construction/Project Management with minimum of Credit from a recognized University.
iii. HND with Credit in Building or related fields as stated in (i) above from a recognized Polytechnic plus a Postgraduate Diploma in Building or Construction/Project Management with minimum of Credit from a recognized University.
iv. B. Sc. /B.Tech with Third Class degree in Building or related fields as stated in (i) above from a recognized University plus a minimum of Five years relevant working experience may also be considered.

All candidates must in addition to the admission requirements for the above programmes satisfy the minimum entry requirements for matriculation of Ahmadu Bello University, Zaria i.e. Five relevant Credits including Mathematics and English.

*Graduation Requirements*

A student is expected to earn a minimum of thirty-six credit hours (eighteen per semester) in order to graduate. The graduating student will have taken and passed all core course units, the requisite elective courses and project writing. A student may carry over failed courses but there will be no provision for repeat.

*Course Structure for Masters in Facility Management*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester (Core Courses)** | | |
| BLDF801 | Environmental & Risk Assessment | 2 |
| BLDF803 | Business Finance | 2 |
| BLDF805 | Information Management | 2 |
| BLDF807 | The Built Estate: Developing & Implementing Strategies | 2 |
| BLDM809 | Research Methodology & Statistics | 2 |
| BLDM815 | Information Technology in Construction | 2 |
| BLDM817 | Construction Material Studies I | 2 |
| BLDM 881, 883 | Seminar (1cu/semester) | 1 |
| BLGM 891, 893 | Research/Project (3cu/semester) | 9+ |
| **Elective Courses** | | |
| BLDS803 | Environmental Design & Utility Services | 2 |
| BLDM811 | Advanced Maintenance Management | 2 |
| BLDT807 | Temporary Works | 2 |
| **Second Semester (Core Courses)** | | |
| BLDF802 | Facilities Management Systems | 2 |
| BLDF804 | Property Portfolio Management | 2 |
| BLDF806 | Health: the Individual and the Workplace | 2 |
| BLDF808 | Space Planning & Project Management | 2 |
| BLDM804 | Organisational Behaviour | 2 |
| BLDM806 | Operational Research | 2 |
| BLDT814 | Construction Material Studies II | 2 |
| BLDM 882, 884 | Seminar (1cu/semester) | **1** |
| BLGM 892, 894 | Research/Project (3cu/semester) | 9+ |
| **Elective Courses** | | |
| BLDM808 | Contract Administration & Supervision | 2 |
| BLDM812 | Legal Aspects of Construction | 2 |
| BLDS808 | Telecommunication Services in Buildings | 2 |

### 6.2.7 Masters in Building

In recognition of emerging trends in the construction industry and the increasing demand for professionalism in construction and maintenance of modern buildings, the Department of Building, Ahmadu Bello University introduced the Master's degree programme in Building (M. Bldg.). The course is designed to train professionals in construction and other related fields in the skills needed to succeed as a professional builder. Graduate of this programme will be conversant with the theory as well as the practical aspects of building.

*Philosophy*

The need for this programme has become obvious due to new concepts and practices in the construction and maintenance of built spaces and their services. There is also the increased pressure from professional bodies and employers for continuous professional development (CPD) of their respective members and employees. The course is structured to integrate some elements of construction/maintenance technology, construction management, building services, financial management and building laws into a single course.

Professionalism in building is a way out of the frequently reported cases of building collapse especially with the advancements in new construction materials and methods in the 21st century.

*Objectives*

For these graduates to function effectively the programme has the following objectives:

i) Understand the science/technology of buildings and their various services ;
ii) Understand the designs and construction technology of buildings ;
iii) Have an in-depth knowledge on construction materials and components;
iv) Understand how to gather, analyse and manage information on site problems;
v) Proffer informed solution to the problems;
vi) Be able to provide sound financial advice on new and rehabilitation projects;
vii) Be able to effect/supervise the necessary construction/repairs/maintenance of building projects;
viii) Be familiar with relevant issues in laws and ethics in connection with buildings and construction.

*Admission Requirements*

i. B.Sc./B.Tech with a minimum of Second Class Lower degree in Building, Construction/Civil/Structural/Architectural Engineering from a recognized University.
ii. B. Sc. /B.Tech with a minimum of Third Class degree in Building, Construction/Civil/ Structural/Architectural Engineering from a recognized University, Plus a minimum of Five years relevant working experience may also be considered.
iii. B.Sc./B.Tech with a minimum of Third Class degree in Building, Construction/Civil/Structural/Architectural Engineering from a recognized University plus a Postgraduate Diploma in Building or Construction Management with minimum of Credit from a recognized University.
iv. HND with Credit in Building, Construction/Civil/Structural/Architectural Engineering from a recognized Polytechnic plus a Postgraduate Diploma in Building or Construction Management with minimum of Credit from a recognized University.

All candidates must in addition to the admission requirements for the above programmes satisfy the minimum entry requirements for matriculation of Ahmadu Bello University, Zaria i.e. Five relevant Credits including Mathematics and English.

*Graduation Requirements*

A student is expected to earn a minimum of thirty-six credit hours (twelve per semester) in order to graduate. The graduating student will have taken and passed all core course units, the requisite elective courses and project writing. A student may carry over failed courses but there will be no provision for repeat.

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester (Core Courses)** | | |
| MBLD801 | Construction Planning & Scheduling | 2 |
| MBLD803 | Modern Management Techniques | 2 |
| MBLD805 | Information Technology in Construction | 2 |
| MBLD807 | Advanced Construction Technology | 2 |
| MBLD813 | Project Management & Feasibility Studies | 2 |
| MBLD 881 | Seminar (1cu/semester) | 1 |
| MBLD 891 | Research/Project (3cu/semester) | **3** |
| **Student to choose one elective** | | |
| MBLD809 | Advanced Structural Analysis | 2 |
| MBLD811 | Electrical & Lighting Design Services | 2 |
| **Second Semester (Core Courses)** | | |
| MBLD802 | Advanced Concrete Technology | 2 |
| MBLD804 | Construction Materials | 2 |
| MBLD806 | Operational Research | 2 |
| MBLD808 | Contract Administration & Supervision | 2 |
| MBLD 882 | Seminar (1cu/semester) | 1 |
| MBLD 892 | Research/Project (3cu/semester) | **3** |
| **Students to choose one elective** | | |
| MBLD810 | Organisational Behaviour | 2 |
| MBLD812 | Air Conditioning Principles & Applications | 2 |
| MBLD814 | Advanced Structural Design | 2 |
| **Third Semester (Core Courses)** | | |
| MBLD801 | Environmental Design & Utility Services | 2 |
| MBLD803 | Advanced Maintenance Management | 2 |
| MBLD805 | Research Methodology & Statistics | 2 |
| MBLD807 | Construction Plant & Equipment | 2 |
| MBLD 883 | Seminar (1cu/semester) | 3-6 |
| MBLD 893 | Research/Project (3cu/semester) | 3 |
| **Students to choose one elective** | | |
| MBLD809 | Information Management | 2 |
| MBLD811 | Advanced Structural Design | 2 |
| MBLD813 | Building Services in Rural Communities | 2 |

### 6.2.8 PhD Building

*Admission Requirements*

M.Sc. in Building Services and other related fields such as MSc Building Services and passed with an average of B grade or minimum CGPA of 4.0 obtained from the Ahmadu Bello University or any other recognised University.

*Graduation Requirements*

The programme is available on both full time and part time basis. The duration for each programme on full-time and part-time is as presented below. Each student is required to present a minimum of three seminars prior to external examinations. In order to qualify for the award PhD Degree in Building, a student must pass the oral examination with respect to the dissertation and earn 36 Credit Units. Students are encouraged to carry out studies in one of the core areas of Building stated above and supervisors are appointed from amongst qualified staff within and outside the Department.

**6.2.9 Ph.D. Construction Management**

*Admission Requirements*

M.Sc. in Construction Management, Construction Project Management and Construction Economics passed with an average of B grade or minimum CGPA of 4.0 obtained from the Ahmadu Bello University or any other recognised University.

*Programme Duration*

Ph.D. Full-time

- Minimum period is two (2) years
- Maximum period is seven (3) years

Ph.D. Part-time

- Minimum period is five (3) years
- Maximum period is five (5) years

**6.2.10 Ph.D. Construction Technology**

*Course structure*

All the PhD programmes offered in the Department are run by research only.

*Programme Duration*

Ph.D. Full-time

- Minimum period is two (2) years
- Maximum period is seven (3) years

Ph.D. Part-time

- Minimum period is five (3) years
- Maximum period is five (5) years

## 6.3 DEPARTMENT OF FINE ARTS

*Admission Requirements:*

**1. M. A. Art Education/Art History:**

Candidates for these programmes should possess a first degree (B.A) in Fine Arts with at least 2nd class lower division from Ahmadu Bello University or any other recognized university.

**2. M.F.A. Painting/Sculpture:**

Candidates for these programmes should possess a first degree (B.A) in Fine Arts/Fine and Applied Arts with at least 2nd class lower division from Ahmadu Bello University or any other recognized University. Candidates are also required to forward portfolio of their recent works along with application forms.

**3. Ph.D. Art Education:**

Candidates for this programme should possess M.A. in Art Education from Ahmadu Bello University or any other recognised University. Candidates with M.F. A. can be admitted, but they have to take some M.A. Art Education courses during the first year of registration.

**4. Ph.D. Art History:**

Candidates for this programme should possess M.A. in Art History from Ahmadu Bello University or any other recognised University. Candidates with M.F.A. Painting or Sculpture can be admitted, but they have to undergo one year of M.A. Art history programme during the first year of registration.

**5. PhD Painting**

*Admission Requirements*

1. M.A or M.F.A in Painting from a recognized University.

**6.PhD Sculpture**

*Admission Requirements*

1. M.A or M.F.A in Sculpture from a recognized University.

*Graduation Requirements*

Candidates admitted to Post-graduate courses in the department shall be required to attend/present seminars and pass coursework, workshop/studio assignments and prepare a thesis showing evidence of original research of an advanced nature on a subject/topic approved by the department and other university bodies. Candidates are expected to pass all comprehensive examinations in the major fields of concentration before proceeding to the orals. All existing requirements for candidates in the Postgraduate School Regulation shall be applicable for the conduct of the full and part-time degrees.

*Programme structure*

1) Seminars: Departmentalseminars, slide lectures are held to discuss contemporary trends and raise issues of topical concern within the discipline.
2) Workshops: Workshops in drawing, painting, sculpture are held to keep a lively academic atmosphere for dialogue and exchange
3) Staff/Student Exhibition: Periodic exhibitions of staff (individual), collective, sectional are held to expose students and the university community to the recent research work in the studios by staff. This creates an atmosphere of awareness within the community.
4) Internet Research: Students are compelled to obtain current information on the discipline from the internet and publish such on the notice board to keep both staff and students in tune.
5) Field Trips: Students undertake field trips to make observations and studies on site.
6) Studio Work: Students of Painting and Sculpture undertake their coursework in their studios.
7) Lectures: Lectures are delivered to students in their various areas of specialization throughout the duration of the programme.

**6.3.1 M.F.A. (Painting)**

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 841 | Historical Evolution of Painting | 3 |
| FINA 843 | Exploration of form (and space) | 4 |
| FINA 847 | Life Painting | 4 |
| FINA 849 | Processes and techniques | 3 |
| FINA 845 | Research Method | 2 |
| FINA 851 | Professional Practice | 2 |
| FINA 871 | Life Drawing: Advance figure study | 2 |
| FINA 881, 883 | Seminar (1 CU/Semester) | 1 |
| FINA 891, 893 | Research/Project (3CU/Semester) | 3 |
| | **Total Credit Units** | **20** |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 840 | Philosophical and Aesthetic issues in painting | 3 |
| FINA 842 | Development of Form (and space) | 4 |
| FINA 844 | Special project | 4 |
| FINA 846 | Advanced Composition | 3 |
| FINA 848 | Advanced Colour Study | 2 |
| FINA 850 | Exhibition and Critic | 2 |
| FINA 872 | Experimental Drawing | 2 |

| | | |
|---|---|---|
| FINA 882, 884 | Seminar (1CU/Semester) | 1 |
| FINA 892, 894 | Research/Project (3cu/Semester) | 3 |
| | **Total Credit Units** | **28** |

**6.3 2. Ph.D. Painting**
*Course Structure*
**First Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| FINA 901 | Proposal Development | 2 | Core |
| FINA 903 | Exploration of Materials and Techniques | 4 | Core |
| FINA 905 | Research Methods in Painting | 2 | Core |
| FINA 907 | Conceptual Drawing | 2 | Core |
| FINA 981,983, 985,987 | Seminar | 1/Semester | Core |
| FINA 991,993, 995,997 | Research/Dissertation | 6/Semester | Core |

**Second Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| FINA 902 | Critique/Seminar Development | 2 | Core |
| FINA 904 | Development of Materials and Techniques | 4 | Cognate |
| FINA 906 | Issues in Nigerian Contemporary Painting | 2 | Core |
| FINA 908 | Life Study | 2 | Core |
| FINA 982,984, 986,988 | Seminar | 1/Semester | Core |
| FINA 992,994, 996,998 | Research/Dissertation | 6/Semester | Core |
| | | | |

**6.3.3 M.F.A. Sculpture**
*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINAP 821 | Historical case studies in sculpture | 3 |
| FINAP 823 | Exploration of form in sculpture | 4 |
| FINAP 825 | Research methods in sculpture | 2 |
| FINAP 827 | Life Sculpture | 4 |
| FINAP 829 | Processes and techniques (Modern Trends) | 3 |
| FINAP871 | Life Drawing | 2 |
| FINAP 803 | Research techniques | 3 |
| | Unrestricted elective | 3 |
| FINA 881,883 Seminar (1cu/semester) | | 1 |
| FINA 891, 893 Research/Thesis (2cu/semester) | | 2 |
| | **Total Credit Units** | **24** |

One Elective from the following: Sociology, Architecture, Metallurgy, Structures, Ceramics, Museology, Survey or any other relevant subject recommended by the supervisor.

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINAP 820 | Philosophical and aesthetic issues in sculpture | 3 |
| FINAP 822 | Development of form in sculpture | 6 |
| FINAP 824 | Execution of special project in sculpture | 4 |
| FINAP 826 | Advanced sculpture composition | 4 |
| FINAP 828 | Advanced life sculpture | 4 |
| FINAP 872 | Experimental drawing | 2 |
| FINA 882, 884 Seminar (1cu/semester) | | 1 |
| FINA 892, 894 Research/Thesis (2cu/semester) | | 2 |
| **Total Credit Units** | | **23** |

**Year 2 - First Semester**
Studio research proposal
Studio research
Exhibition/Seminar and criteria in sculpture

**Second Semester**
Studio research
Exhibition works in sculpture
Research report

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### 6.3.4 Ph. D Sculpture

*Course Structure (Core and Cognate)*

**First Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| FINA 901 | Proposal Development | 2 | Core |
| FINA 903 | Exploration of materials and Techniques | 4 | Core |
| FINA 905 | Research Methods in Sculpture | 2 | Core |
| FINA 907 | Conceptual Drawing | 2 | Core |
| FINA 981 | Seminar | 1/Semester | Core |
| FINA 991 | Research/Dissertation | 6/Semester | Core |
| Total | | 10 | |

**Second Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| FINA 902 | Critique/Seminar Development | 2 | Core |
| FINA 904 | Development of materials and Techniques | 4 | Cognate |
| FINA 906 | Issues in Nigerian Contemporary Sculpture | 2 | Core |
| FIINA 908 | Life Study | 2 | Core |
| FINA 982 | Seminar | 1/Semester | Core |
| FINA 992 | Research/Dissertation | 6/Semester | Core |
| TOTAL | | 10 | |

**N.B: Note earlier comments on Course coding!!!!**

| | | | |
|---|---|---|---|
| **1st/2nd and Subsequent Session(s)** | | | |

| Course Code | Course Title | Credit units | Status |
|---|---|---|---|
| FINA 983 - 989 | Critiques/Seminar | 4x6 =24 | Cognate |
| FINA 993 - 999 | Research/Dissertation | 24+ | Core |

## 6.3.5 M.A. Art Education

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 801 | Creativity and Art Education | 3 |
| FINA 803 | Research Studies Design & Art Education | 2 |
| FINA 805 | Art School & Society Relationship | 3 |
| INDE 803 | General Research Technique | 2 |
| FINA 881 | Seminar (1cu/semester) | 1 |
| FINA 891 | Research/Thesis (2cu/semester) | 2 |
| ELECTIVES | (EDUC) Psychology of Education | |
| ? | Philosophy of Education | 2 |
| ? | Measurement and Education | |
| | **Total Credit Units** | **12 .** |

**Second Semester**

| | | |
|---|---|---|
| FINA 802 | Art Curriculum & Instructional (Theory & Practical) | 3 |
| FINA 804 | Art in Elementary & Secondary Schools | 3 |
| FINA 806 | History of Art Curriculum Development in Nigeria | 3 |
| FINA 882 | Seminar (1cu/semester) | 1 |
| FINA 892 | Research/Thesis (2cu/semester) | 2 |
| ED 600 (EDUC) | Research Methods/Statistics | 3 |
| | **Total Credit Units** | **12** |

**Year Two:** 1st Semester

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 807 | Issues in Art Education | 3 |
| FINA 809 | Independent Studies/Seminar | 3 |
| FINA 883 | Seminar (1cu/semester) | 1 |
| FINA 893 | Research/Thesis (2cu/semester) | 2 |
| | **Total Credit Units** | **12** |

**2nd Semester**

| | | |
|---|---|---|
| FINA 808 | Instructional Methodology | 3 |
| FINA 810 | Studio Experiment | 3 |
| FINA 812 | Thesis (Final) | 6 |
| FINA 882, 884 | Seminar (1cu/semester) | 1 |
| FINA 892, 894 | Research/Thesis (2cu/semester) | 2 |
| | | **12** |

### 6.3.6. Ph.D. Art Education

*Course Structure*

**First Semester - Year 1**

| Course Code | Course Title | Status | C.U |
|---|---|---|---|
| FINA 901 | Advanced Creativity and Art Education | core | 3 |
| FINA 903 | Advanced Concepts and Theories of Art Education | core | 3 |
| FINA 905 | Art and Cultural Anthropology | core | 3 |
| INDA 903 | General Research Techniques | core | 2 |
| FINA 907 | Independent Study | | |
| FINA 981 | Seminar I | | 1 |
| FINA 991 | Research/Dissertation I | | 6 |
| ED: Electives | Measurement & Evaluation; Curriculum & Instructional Strategies, Psychology, Philosophy | core | 2 |
| | | | **14** |
| **Second Semester** | | | |
| FINA 902 | Theoretical Bases for Art Teaching: Theories of Pupils/Students Perception of Art | core | 3 |
| FINA 904 | Evaluation and Judgment (Art Criticism) | core | 3 |
| FINA 906 | Field Research Seminar and Instrument Development ???? | core | 2 |
| FINA 908 | Independent Study | | |
| **ED. 900** | Research Methods/Statistics | core | 2 |
| FINA 982 | Seminar II | | 1 |
| FINA 992 | Research/Dissertation II | | 6 |
| ED. Elective | Psychology, Measurement and Evaluation Curriculum, Philosophy; Philosophy | core | 2 |
| | | | **14** |
| **Year Two - First Semester** | | | |
| FINA 909 | Values in Art Education | core | 3 |
| FINA 911 | Art Education Practicum | core | 6 |
| FINA 913 | Independent Study | core | 3 |
| FINA 915 | 1st Semester in Art Education/Statement of Intent??? | | |
| FINA 917 | Professional Education of the Art Teacher | core | **14** |
| FINA 983 | Seminar III | | 1 |
| FINA 993 | Research/Dissertation III | | 6 |
| **Second Semester** | | | |
| FINA 910 | Dissertation Proposal Preparation/Defence ?? | core | 4 |
| FINA 912 | Instructional Methodology | 3 | |
| FINA 914 | 2nd Seminar in Art Education?? | core | 3 |
| FINA 984 | Seminar IV | | 1 |
| FINA 994 | Research/Dissertation IV | | 6 |
| | | | **12** |
| **Year Three - Art Education (Ph.D.)** | | | |
| **1st Semester** | | | |
| FINA 985 | Seminar V | | 1 |
| FINA 995 | Research/Dissertation V | | 6 |

**12**

| | | |
|---|---|---|
| **2nd Semester** | | |
| FINA 986 | Seminar VI | 1 |
| FINA 996 | Research/Dissertation VI | 6 |

Total Credit Units for Graduation = **78**

### 6.3.7 M.A. Art History

*Course Structure*

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 821 | Traditional African Art | 3 |
| FINA 823 | Comparative Study of African & European Art | 3 |
| FINA 825 | Traditional and Contemporary Nigerian Art | 3 |
| FINA 827 | Art Criticism | 3 |
| INDE 803 | General Research Techniques | 3 |
| FINA 881, | Seminar (1cu/semester) | 1 |
| FINA 891, | Research/Thesis (2cu/semester) | 2 |
| **Total Credit Units** | | **15** |

**2nd Semester**

| | | |
|---|---|---|
| FINA 822 | Contemporary African Art | 3 |
| FINA 824 | African Art and Society | 3 |
| FINA 826 | Seminar in Art History | 3 |
| FINA 828 | Research Methods in Art History | 3 |
| FINA 882 | Seminar (1cu/semester) | 1 |
| FINA 892 | Research/Thesis (2cu/semester) | 2 |
| ELECTIVE | | 2 |
| **Total Credit Units** | | **14** |

**2nd Year**

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 829 | Independent Studies/Proposal | 3 |
| FINA 883, 884 | Seminar (1cu/semester) | 1 |
| FINA 893, 894 | Research/Thesis (2cu/semester) | 2 |
| | **Total Credit Units** | **41** |

### 6.3.7 PhD Art History

*Course Structure*

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 901 | Advanced problems in African Art and Architecture I | 3 |
| FINA 903 | 20th Century Art of Africa | 3 |
| FINA 905 | Cultural Anthropology | 3 |
| FINA 907 | African Art & Oral Tradition | 3 |
| FINA 981 | Seminar (1cu/semester) | 1 |

| | | |
|---|---|---|
| FINA 991 | Research/Thesis (6cu/semester) | 6 |
| | **Total Credit Units** | **12** |

**2nd Semester**

| | | |
|---|---|---|
| FINA 902 | Advanced Problems in African Art & Architecture II | 1 |
| FINA 904 | Art Criticism: Advanced Study of Styles, Form and Function of Art | 3 |
| FINA 908 | Current Issues in Art: Selected Topics | 3 |
| FINA 982 | Seminar (1cu/semester) | 1 |
| FINA 992 | Research/Dissertation (6cu/semester) | 6 |
| | **Total Credit Units** | **12** |

**2nd Year: 1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| FINA 911 | Graduate Seminar II | 3 |
| FINA 913 | Ph.D. Dissertation | 6 |
| FINA 909 | Individual Studies/Proposal | 3 |
| FINA 983, 984 | Seminar (1cu/semester) | 1 |
| FINA 993, 994 | Research/Dissertation (6cu/semester) | 6 |
| | | **12** |

## 6.4 DEPARTMENT OF GEOMATICS

### 6.4.1 PGD Geomatics

*Admission Requirements*

i. The programme is open to candidates with a minimum of Third Class Bachelor's Degree or equivalent in Geomatics and Land Surveying from this or any other approved university.
ii. B.Sc./B.Tech. with a minimum of Third Class degree in Estate Management, Civil/Water Resources/Building/Mechanical/Mining/Electrical Engineering, Geography, Geology, Geophysics, Archaeology, Urban Planning, Agriculture and Architecture from a recognized University.
iii. HND with a minimum of Upper credit in Geomatics, Land Surveying, Estate Management, Civil/Water Resources/Building/Mechanical/Mining Engineering, Urban Planning, and Architecture from a recognized Polytechnic.
iv. All categories of candidates may be required to undergo a selection process.

*Graduation Requirement*

1. Satisfactorily completed the course of instruction and a research project. The total number of course credit units required for graduation is 30.
2. Satisfied all other requirements stipulated in the regulations of the school of Postgraduate Studies.

*Course Structure*

| Course code | Title | Credit unit |
|---|---|---|
| **First Semester** | | |
| GEOM 701 | Principles of Remote Sensing | 2 |
| GEOM 703 | Principles of Geospatial Information Systems | 2 |
| GEOM 705 | Cartography and Digital Mapping | 2 |
| GEOM 707 | Global Positioning System | 2 |
| GEOM 709 | Geomatics Laws and Professional Practice | 2 |
| GEOM 711 | Research Methods | 2 |
| GEOM 781 | Seminar I | 1 |
| GEOM 791 | Research/Project | 3 |
| | | |

| **Second Semester** | | |
|---|---|---|
| GEOM 702 | Spatial Database, Analysis and Modelling | 2 |
| GEOM 704 | Digital Image Processing | 2 |
| GEOM 706 | Applications of Geoinformatics | 2 |
| GEOM 708 | Map Projections and Coordinate Systems | 2 |
| GEOM 710 | High Precision Metrology | 2 |
| GEOM 712 | Geomatics Field School | 2 |
| GEOM 782 | Seminar II | 1 |
| GEOM 792 | Research/Project | 3 |
| **Electives** | | |
| GEOM 713 | Geoinformatics Resource Management | 2 |
| GEOM 714 | GIS Implementation Strategies | 2 |
| GEOM 716 | Cadastral Applications And Land Registration | 2 |

**6.4.2 M.Sc. Geomatics**

*Admission Requirements*

i. The programme is open to candidates with a minimum of second class (lower division) Bachelor's Degree or equivalent in Geomatics and Land Surveying from this or any other approved university.

ii. Candidates from other disciplines in Engineering or Geo-sciences may only be admitted as occasional students in the first instance. Such candidates will be required to make up for their deficiencies by offering prescribed courses in Geomatics at the Under Graduate level.

iii. All categories of candidates may be required to undergo a selection process, as may be determined by the Departmental board and/or the Post Graduate School.

*Graduation Requirements*

To qualify for the award of the degree in M.Sc. a candidate must have:

1. Satisfactorily completed the course of instruction and a research project. The total number of course credit units required for graduation is 51.
2. Satisfied all other requirements stipulated in the regulations of the school of Postgraduate Studies.

**Year One( 1st Semester)**

*All candidates are required to offer and pass the following courses*

| **Course Code** | **Course Title** | **Status** | **CU** |
|---|---|---|---|
| GEOM 801 | Advanced Professional Practice | CR | 3 |
| GEOM 803 | Land Information Management | CR | 3 |
| GEOM 805 | Adv Research Methodology and data analysis | CR | 3 |
| GEOM 807 | Advanced Estimation Methods and Analysis | CR | 3 |
| GEOM 809 | Spatial Models and Statistics | CR | 3 |
| GEOM881 | Seminar I | CR | 1 |
| GEOM 891 | Research/Thesis I | CR | 2 |

*In addition to the compulsory courses (above), candidates should offer and pass twenty-four (24) units of courses selected from the following specialization group of courses. All candidates should therefore offer and pass a minimum of fifty-one (51) units (this includes seminar presentations and research thesis).*

**Year One: 2nd Semester (Geodetic and Navigation Science option)**

| **Course Code** | **Title** | **Status** | **CU** |
|---|---|---|---|
| GEOM 802 | Geodetic Reference Systems | CG | 3 |
| GEOM 804 | Gravity Field Mapping and Approximation | CG | 3 |
| GEOM 806 | State Models, Kalman Filtering and Smoothing | CG | 3 |

| | | | |
|---|---|---|---|
| GEOM 808 | Satellite Altimetry and Applications | CG | 3 |
| GEOM 810 | Advanced GNSS Methods | CG | 3 |
| GEOM 812 | Navigation and Guidance | CG | 3 |
| GEOM 814 | Industrial and High-Precision Metrology | CG | 3 |
| GEOM 816 | Integrated Analysis and Deformation Studies | CR | 3 |
| GEOM 882 | Seminar II | CR | 1 |
| GEOM 892 | Research/Thesis II | CR | 2 |

**Year One: 2nd Semester (Geoinformation Science option)**

| **Course Code** | **Title** | **Status** | **CU** |
|---|---|---|---|
| GEOM 822 | Digital Terrain Modelling | CG | 3 |
| GEOM 824 | GIS Implementation Strategies | CG | 3 |
| GEOM 826 | Spatial Data Structures | CG | 3 |
| GEOM 828 | Advanced Spatial information Systems | CG | 3 |
| GEOM 830 | Advance Remote Sensing | CG | 3 |
| GEOM 832 | Digital Cartography | CG | 3 |
| GEOM 834 | Data Quality and Assessment | CG | 3 |
| GEOM 836 | Digital Image Processing(DIP) in Remote Sensing | CR | 3 |
| GEOM 882 | Seminar II | CR | 1 |
| GEOM 892 | Research/Thesis II | CR | 2 |

**Year Two: 1st Semester (General)**

| **Course Code** | **Title** | **Stat** | **CU** |
|---|---|---|---|
| GEOM 883 | Seminar III | CR | 1 |
| GEOM 893 | Research/Thesis III | CR | 2 |
| | Unrestricted Elective | CG | 3 |

**Year Two: 2nd Semester (General)**

| **Course Code** | **Title** | **Stat** | **CU** |
|---|---|---|---|
| GEOM 884 | Seminar IV | CR | 1 |
| GEOM 894 | Research/Thesis IV | CR | 2 |
| | Unrestricted Elective | CG | 3 |

**Electives**

| **Course Code** | **Title** | **Stat** | **CU** |
|---|---|---|---|
| GEOM 805 | Data Acquisition Systems | UE | 3 |
| GEOM 818 | Atmospheric Science | UE | 3 |
| GEOM 820 | Global Geophysics and Geodynamics | UE | 3 |
| GEOM 838 | Mobile Location Services | UE | 3 |
| GEOM 840 | Case Studies in Land Information Systems | UE | 3 |
| MSUR 801 | Environmental Impact Assessment | UE | 2 |
| MSUR 833 | Planning Law | UE | 2 |

**6.4.3 Ph.D. Geomatics**

*Admission Requirements*

Candidates for Ph.D. Geomatics programme must be holders of good Master's Degree (minimum of 3.5 in a 5 point grade), from reputable higher institutions both in Nigeria and from other countries with good and actualisable

research proposals. All applicants will be expected to defend a preliminary research proposal before being considered for admission. They must possess the requisite O` level requirement of five (5) credits in English Language, Physics, mathematics, geography or further mathematics and any other science subject.

*Graduation Requirements*
A Ph.D. candidate is expected to present a proposal for his dissertation at the commencement of the programme, after which he/she would be expected to provide progress reports and at least two seminars before being presented for external examination and oral viva voce examination. In addition, all requirements in the Regulations of the School of Postgraduate Studies must, in all cases, be satisfied.

*Course Structure*
The PhD programme is by course work and research. Candidates may also be advised to take additional taught courses on an individual basis following the recommendation of academic supervisor(s).

| **Course code** | **Title** | **Credit unit** |
|---|---|---|
| **First Semester** | | |
| GEOM 901 | Adv Research Methodology | 4 |
| GEOM 981, 983, 985, 987 | Seminar I, III, V, VII (1CU/Semester) | 1 |
| GEOM 991, 993, 995, 997 | Research/Dissertation I, III, V, VII (6CU/Semester) | 6 |
| | | |
| **Second Semester** | | |
| GEOM 902 | Research Advances in Geomatics | 4 |
| GEOM 982, 984, 986, 988 | Seminar II, IV, VI, VIII (1CU/Semester) | 1 |
| GEOM 992, 994, 996, 998 | Research/Dissertation II, IV, VI, VIII (6CU/Semester) | 6 |

## 6.5 DEPARTMENT OF INDUSTRIAL DESIGN

### 6.5.1 M.Sc. Glass Technology

*Admission Requirements*
To be admitted into the programme applicants must hold B.Sc. Industrial Design (Glass Technology) degree with First or Second Class Honours of Ahmadu Bello University or recognized equivalents. Candidates who hold B.Sc. in Materials Science and Engineering, Chemical Engineering, Geology, Mining Engineering, Industrial Physics, Polymer Science and Technology, Industrial Chemistry, Textile Science and Technology, Metallurgy or Mechanical Engineering may also apply but shall be required to take some core preparatory glass courses.

*Graduation Requirements*

1. The minimum number of course credit units required for graduation is 50
2. Towards the end of the programme, each candidate is required to present a seminar paper.
3. Candidates must submit an approved thesis based on individual research and practical work which will form part of the final assessment.
4. In addition to other course assessments, all candidates shall be required to present themselves for oral defense of their thesis as part of the final examination.

*Course Structure*
**M.SC. Year I**
**First Semester**

| **Course Code** | **Course Title** | **Status** | **Credit Unit** |
|---|---|---|---|
| GTEC 803 | General Research Methods | CR | 2 |
| GTEC 807 | Statistics I | CR | 2 |
| GTEC 815 | Refractory Materials | CR | 2 |

| | | | |
|---|---|---|---|
| GTEC 821 | Furnace Technology | CR | 2 |
| GTEC 801 | Industrial Raw Materials | CR | 2 |
| GTEC 805 | ICT in Silicate Technology | CR | 2 |
| GTEC 809 | Experimental Techniques | CR | 3 |
| GTEC 819 | Instrumentation and Process Control | Elective | 2 |
| GTEC 823 | Batch Formulation | Elective | 2 |
| BLDG 813 | Business Management | RE | 3 |
| GTEC 811 | Colour in Glass Technology | Elective | 2 |
| GTEC 813 | Quality Control | Elective | 2 |
| GTEC 817 | Competitive Materials | Elective | 2 |
| GTEC 881 | Seminar 1 | CR | 1 |
| GTEC 891 | Research 1 | CR | 4 |

**M.SC. Year I**
**Second Semester**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| GTEC 802 | Sintering and Glass melting | CR | 2 |
| GTEC 804 | Research Methodology | CR | 2 |
| GTEC 806 | Production Management | CR | 2 |
| GTEC 808 | Statistics II | CR | 3 |
| GTEC 820 | Glass Ceramics | CR | 2 |
| GTEC 822 | Strength of Ceramics and Glasses | CR | 2 |
| GTEC 810 | Advanced Laboratory Management | Elective | 3 |
| GTEC 812 | Petrology and Mineralogy for Material Scientists | Elective | 2 |
| GTEC 814 | Polymer Science and Technology | Elective | |
| GTEC 816 | Advanced Scientific Glass Blowing | Elective | 2 |
| GTEC 818 | Packaging and Environmental Protection | Elective | 2 |
| GTEC 882 | Seminar II | CR | 1 |
| GTEC 892 | Research II | CR | 4 |

**M.SC. Year II**
**First Semester**

| Course Code | Course Title | Status | CreditUnit |
|---|---|---|---|
| GTEC 883 | Seminar III | CR | 1 |
| GTEC 893 | Research III | CR | 4 |
| | Unrestricted Elective | Elective | 2 |
| | Total | | 5 |

**M.SC. Year II**
**Second Semester**

| | | | |
|---|---|---|---|
| GTEC 884 | Seminar IV | CR | 1 |
| GTEC 894 | Research IV | CR | 4 |
| | Unrestricted Elective | Elective | 2 |
| | Total | | 5 |

**6.5.2 Ph.D. Glass Technology**

*Admission Requirements*

Candidates for Ph.D. Glass Technology shall possess a minimum of 4.0 Cumulative Grade Point Average on 5.0 scale or equivalent letter grade B in M.Sc. Glass Technology, M.Sc. Ceramic Technology, M.Sc. Material Science and Engineering or any other recognized equivalent.

*Graduation Requirements*

The Ph.D. progamme is by coursework and research. In addition, candidate admitted into the programme who are adjudged by the department to be deficient in the area of his/her research interest will be required to take additional stipulated course at the master's level to remedy the deficiencies.

*Programme Structure*

Ph.D. Core Courses:

The required courses to be taken are four (4) core courses and one (1) elective course depending on the area of specialization. The four core courses are GTEC 901, GTEC 902, GTEC 903, GTEC 904, while the electives are GTEC 905, GTEC 906, GTEC 907.

*Course Structure*

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| GTEC 901 | Advanced Research Methods | 3 |
| GTEC 902 | Advanced Qualitative Research Methods | 3 |
| GTEC 903 | Advanced Computer Applications | 3 |
| GTEC 904 | Advanced Composite Materials | 3 |
| GTEC 991-999 | Ph.D. Dissertation (6cu/semester) | 6 |
| GTEC 981-989 | Seminar (1cu/semester) | 1 |
| **Elective Courses** | | |
| GTEC 905 | Glasses for Structural Applications | 3 |
| GTEC 906 | Advanced Competitive Materials | 3 |
| GTEC 907 | Advanced Scientific Glass Technology | 3 |

**6.5.3M.A Industrial Design**

*Admission Requirements*

An honours degree in industrial design, fine and applied arts, creative arts or any other related course and not lower than 2nd class lower division.

*Graduation requirements.*

1. The total number of course credit units required for graduation is 46.
2. Candidates must submit an approved thesis or project based on individual research.
3. Minimum duration for the programme is three semesters (18 months).
4. Maximum duration for the programme is six semesters (36 months)

*Course Structure*

**M.A. Year 1 – Semester 1.**

| **Course Code** | **Course Title** | **Credit Units** | **Status** |
|---|---|---|---|
| INDE 801 | Conceptual definitions in history and philosophy of Industrial Design | 4 | Cr |
| INDE 803 | General - Research Techniques | 4 | CR |
| INDE 505 | Advanced Studio Practice: Design | 4 | CR |

| | | | |
|---|---|---|---|
| INDE 807 | Principles in Specialising Area: Graphics, Textiles or Ceramics | 4 | CR |
| INDE 809 | Advanced Studio: Designer & Client Relations | 4 | CR |
| INDE 881 | Seminar I | 1 | CR |
| INDE 891 | Research I | 4 | CR |
| | TOTAL | 23 | |

**M.A Year 1 - Semester 2**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 802 | History & philosophy of Industrial Design in Africa | 4 | CR |
| INDE 804 | Research Design and Methodology | 4 | CR |
| INDE 806 | Advanced Studio Practice: Reproduction | 4 | CR |
| INDE 808 | Conceptual Issues in Specializing area: Graphics, Textiles, Glass and Ceramics | 4 | CR |
| INDE 810 | Advanced studio practice: Finishing and Exhibition technique | 4 | CR |
| INDE 882 | Seminar II | 1 | CR |
| INDE 892 | Research II | 4 | CR |
| | TOTAL | 23 | |

**M.A Year 2 – Semester 3**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 883 | Seminar III | 1 | CR |
| INDE 893 | Research III | 4 | CR |
| | Unrestricted Elective | 2 | |
| | TOTAL | 5 | |

**M.A Year 2 Semester 4**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 884 | Seminar IV | 1 | CR |
| INDE 894 | Research III | 4 | CR |
| | Unrestricted Elective | 2 | |
| | TOTAL | 5 | |

**6.5.4 Ph.D. Industrial Design.**

*Admission Requirements*

Entry qualification includes M.A Industrial Design or a related master's degree course from recognized institutions and such an applicant must have a good first degree in industrial design or any other related course.

*Graduation requirements.*

In general a student will be required to work closely with his supervisory committee along a clearly defined procedure which involves:

1. Attainment of Doctoral candidacy status from that of Doctoral student by passing a comprehensive examination to be attempted only after passing 75% of course requirements.
2. Defense of a comprehensive research proposal.
3. Presentation of 3 research seminars.
4. Final Dissertation defense

5. Total number of credits required for graduation is 40-60 CU.
6. Minimum duration for graduation is 4 semesters and maximum is 10 semesters for fulltime students and 14 semesters for part time students.

*Course Structure*

**Ph.D. YEAR 1 – Semester 1.**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 901 | Foundations of 20th Century Design Theorization | 4 | CR |
| INDE 903 | Industrial Design – Advanced Studio Theory | 4 | CR |
| INDE 905 | Advanced Research Technique: Quantitative | 4 | CR |
| INDE 907 | Inferential Statistics | 4 | CR |
| INDE 981 | Seminar I | 1 | CR |
| INDE 991 | Research/Dissertation I | 6 | CR |

**PhD YEAR 1- Semester 2.**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 902 | History: Evolution of designs in Europe and America before the 20th Century. | 4 | CR |
| INDE 904 | Independent Study in either Graphics, Textiles or Ceramics. | 4 | CR |
| INDE 906 | Advanced Qualitative Research Techniques | 4 | CR |
| INDE 982 | Seminar II | 1 | CR |
| INDE 992 | Research II | 6 | CR |
| | 2 Unrestricted Electives of 4 hours each. | 8 | |

**Ph.D. YEAR 2 – Semester 3.**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 909 | Collective bargaining of Industrial Workers. | 4 | CR |
| INDE 913 | Library Research | 2 | CR |
| INDE 983 | Seminar III | 1 | CR |
| INDE 993 | Research III | 6 | CR |

**Ph.D. YEAR 2 Semester 4.**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 908 | Management of Industry | 2 | CR |
| INDE 984 | Seminar IV | 1 | CR |
| INDE 994 | Research IV | 6 | CR |
| INDE 912 | Field Work | 2 | CR |

**Ph.D. YEAR 3 – Semester 5.**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 985 | Seminar V | 1 | CR |
| INDE 995 | Research V | 6 | CR |

**PhD YEAR 3 – Semester 6.**

| Code | Course Title | Credit Units | Status |
|---|---|---|---|
| INDE 986 | Seminar VI | 1 | CR |

| | | | |
|---|---|---|---|
| INDE 996 | Research VI | 6 | CR |

## 6.6 DEPARTMENT OF QUANTITY SURVEYING

### 6.6.1 M.Sc. Quantity Surveying

*Admission Requirements*

To gain admission into any of the postgraduate programmes, applicants must meet the current entry requirements prescribed by the Postgraduate School of ABU.

For M.Sc. level entry, applicants must hold either:

a. a minimum of second class lower honours degree in Quantity Surveying or other relevant degree from ABU or any other recognised University, or
b. a 3rd class degree in Quantity Surveying with at least five years of relevant experience or with full membership of a relevant professional institution and at least three years of relevant experience, or
c. a PGD qualification in a relevant course from a recognised university and with a CGPA of 3.0 and above.

In each of the case (a) – (c) above, candidates are expected to have at least five credits, which must include: Mathematics; Physics; English; and Chemistry/Economics/Technical Drawing. It should be noted that candidates without degree in Quantity Surveying at second class level and above may be required to take some remedial courses at undergraduate level.

*Course Structure*

To obtain aM.Sc. degree in Quantity Surveying, the student must successfully complete all core courses and minimum of two elective courses. Each student will be required to undergo internal defence (by way of seminar) and an oral external defence of his/her thesis.

| **First Semester** | | |
|---|---|---|
| **Course Code** | **Title** | **Credit Unit** |
| **Core/Compulsory Departmental Courses** | | |
| PRMT 823 | Applied Research Methods | 3 |
| QTYS 881, 883, 885 | MSc Seminar I, III & V | 1cu/semester |
| QTYS 891 893, 895 | MSc Research/Thesis I, III & V | 4cu/semester |
| **Core Specialisation Courses** | | |
| PRMT 809 | Construction Financial Management | 3 |
| QTYS 801 | Construction Methods and Techniques | 3 |
| QTYS 803 | Fundamentals of Construction Economics | 3 |
| **Elective Courses (At the discretion of the supervisory committee and the Student)** | | |
| **Second Semester** | | |
| **Course Code** | **Title** | **Credit Unit** |
| **Core/Compulsory Departmental Courses** | | |
| QTYS 882, 884, 886 | MSc Seminar II, IV & VI | 1cu per semester |
| QTYS 892, 894, 896 | MSc Research/Thesis II, IV & VI | 4cu per semester |
| **Core Specialisation Courses** | | |
| PRMT 804 | Construction Procurement and Contracts | 3 |
| PRMT 806 | Value and Risk Management | 3 |
| PRMT 810 | Information Management | 3 |
| QTYS 802 | Building and Engineering Measurements | 3 |

| | | |
|---|---|---|
| QTYS 804 | Cost Estimating and Modelling | 3 |
| **Elective Courses (At the discretion of the supervisory committee and the Student)** | | |
| **Elective Courses (Students are required to take minimum of two courses)** | | |
| QTYS 805 | Macroeconomics, Finance and the Built Environment | 3 |
| QTYS 806 | Microeconomics and the Built Environment | 3 |
| QTYS 807 | Highway Engineering and Management | 3 |
| QTYS 808 | Materials in Construction | 3 |
| QTYS 809 | Operations Research | 3 |
| QTYS 810 | Soil Mechanics and Foundations | 3 |
| PRMT 809 | Construction Financial Management | 3 |
| PRMT 808 | Strategic Management in Construction | 3 |
| PRMT 814 | Project Planning and Scheduling | 3 |
| PRMT 817 | Construction Equipment and Methods | 3 |

**6.6.2 M.Sc. Project Management**

*Admission Requirements*

To gain admission into any of the postgraduate programmes, applicants must meet the current entry requirements prescribed by the Postgraduate School of ABU.

Each applicant must hold either:

a. A minimum of second class lower honours degree in Quantity Surveying, Architecture, Building and Civil Engineering from ABU or any other recognised University, or

b. A 3rd class degree in any of the programmes in (a) above with at least five years of relevant experience, PGD or with full membership of a relevant professional institution in addition to at least three years of relevant experience, or

c. A B.Sc., or PGD (with a CGPA of 3.0 and above or equivalent) qualification in a relevant course from a recognised university.

It should also be noted that candidates whose undergraduate curriculum/transcript do not have sufficient management background may be required to take some remedial courses at undergraduate level.

*Graduation Requirements*

To obtain aM.Sc. degree in Project Management, the student must successfully complete all core courses and minimum of two elective courses. Each student will be required to undergo internal defence (by way of seminar) and an oral external defence of his/her thesis.

*Course Structure of M.Sc. in Project Management*

| **First Semester** | | |
|---|---|---|
| **Course Code** | **Title** | **Credit Unit** |
| **Core/Compulsory Departmental Courses** | | |
| PRMT 823 | Applied Research Methods | 3 |
| PRMT 881, 883, 885 | MSc Seminar I, III & V | 1cu/ semester |
| PRMT 891, 893 & 895 | Research/Thesis I, III & V | 4CU/Semester |
| | | |
| **Core Specialisation Courses** | | |

| | | |
|---|---|---|
| PRMT 801 | Project Management: Theory and Practice | 3 |
| PRMT 803 | Project Management: Strategic Issues | 3 |
| PRMT 809 | Construction Financial Management | 3 |
| PRMT 811 | Law for the Construction Project Managers | 3 |
| **Elective Courses (At the discretion of the supervisory committee and the Student)** | | |
| **Second Semester** | | |
| **Course Code** | **Title** | **Credit Unit** |
| **Core/Compulsory Departmental Courses** | | |
| PRMT 882, 884, 886 | MSc Seminar II, IV & VI | 1cu/semester |
| PRMT 892, 894, 896 | MSc Research/Thesis II, IV & VI | 4cu/ semester |
| **Core Specialisation Courses** | | |
| PRMT 802 | Project Management: Case Study | 3 |
| PRMT 804 | Construction Procurement and Contracts | 3 |
| PRMT 806 | Value and Risk Management | 3 |
| PRMT 808 | Strategic Management in Construction | 3 |
| PRMT 810 | Information Management | 3 |
| PRMT 814 | Project Planning and Scheduling | 3 |
| **Elective Courses (At the discretion of the supervisory committee and the Student)** | | |
| **Elective Courses (Students are required to take minimum of two courses)** | | |
| PRMT 812 | Management of Health and Safety in Construction | 3 |
| PRMT 813 | Management of People in Construction | 3 |
| PRMT 815 | Construction Cost Estimating and Management | 3 |
| PRMT 816 | Management Principles | 3 |
| PRMT 817 | Construction Equipment and Methods | 3 |
| PRMT 818 | Construction Dispute Resolution | 3 |
| PRMT 819 | Managing the Construction Process | 3 |
| PRMT 820 | e-Construction | 3 |
| PRMT 821 | Sustainability and the Built Environment | 3 |

### 6.6.3 PhD Quantity Surveying

*Admission Requirements*

For PhD, applicants must hold a Master of Science degree in Quantity Surveying, Construction Management, Project Management or Construction Economics from a recognised university.

*Graduation Requirements*

To qualify for graduation, students are expected to submit a thesis and defend in an oral *viva voce* examination by an external examiner.

*Research Areas*

The PhD programme will be focused on topics from any of the following research themes:

- Cost Modelling
- IT applications to Quantity Surveying Principles, Practices and Techniques
- Tendering and Contract Documentation
- Project Procurement Management
- Construction Contract Management

- Dispute Resolution and Alternative Dispute Resolution (ADR)
- Life Cycle Costing
- The Economics of Construction Industry
- Design and Development Economics
- Construction Cost Management
- Cost Planning and Control

*Course Structure*

| **First Semester** | | |
|---|---|---|
| **Course Code** | **Title** | **Credit Unit** |
| **Core/Compulsory Departmental Courses** | | |
| QTYS923 | Advanced Research Methods | 3 |
| QTYS 981, 983, 985 | PhD Seminar I, III & V | 1cu/semester |
| QTYS991, 993, 995 | PhD Research/Dissertation I,III & V | 6cu/semester |
| **Second Semester** | | |
| **Course Code** | **Title** | **Credit Unit** |
| **Core/Compulsory Departmental Courses** | | |
| QTYS982, 984, 986 | PhD Seminar II, IV & VI | 1cu/semester |
| QTYS992, 994, 996 | PhD Research/Dissertation II,IV & VI | 6cu/semester |

## 6.7 DEPARTMENT OF URBAN AND REGIONAL PLANNING

### 6.7.1 M.Sc. Urban and Regional Planning

*Admission Requirement*

- Candidates with first degrees in URP
- Masters in URP or a related field of study
- To satisfy general university requirements in Math and English at O Level

*Course structure*

| **M.Sc. URP Program Course Structure Core Departmental Subjects** | | |
|---|---|---|
| **First Semester**(yr 1) | | |
| MSUR.821 | Element of Statistics | 2 |
| MSUR.823 | Computer Application Planning | 3 |
| MSUR.825 | Research Methods theory | 2 |
| **Specialization Subjects** | | |

| | | |
|---|---|---|
| MSUR.801 | Environmental impact Assessment | 2 |
| MSUR.803 | Environmental Planning | 2 |
| MSUR.805 | Drought and Desertification | 2 |
| MSUR.807 | Urbanization | 2 |
| MSUR.809 | Land use Components | 2 |
| MSUR.811 | Urban and Regional Economics+ | 2 |
| MSUR.813 | Introduction to Planning Theory | 2 |
| MSUR.815 | Planning Principles and Process | 2 |
| MSUR.817 | Utility Planning | 2 |
| MSUR.819 | Transportation Planning | 2 |
| MSUR.821 | Element of Statistics | 2 |
| MSUR.823 | Computer Application Planning | 3 |
| MSUR.825 | Research Methods theory | 2 |
| MSUR 800 | Planning Studio Practice I | 3 |
| MSUR.802 | National Development Planning | 2 |
| MSUR.804 | Regional Planning | 2 |
| MSUR.806 | Site Planning and Landscaping | 2 |
| MSUR.808 | Basic land Surveying Techniques | 2 |
| MSUR.810 | Urban Design | 2 |
| MSUR.812 | Quantitative Techniques | 2 |
| MSUR.814 | Housing Process | 2 |
| MSUR.816 | Housing policy and programme | 2 |
| MSUR 800 | Planning Studio Practice I | 3 |
| MSUR.827 | Public Finance Management | 2 |
| MSUR.829 | Project Planning and Evaluation | 2 |
| MSUR.831 | Urban Management | 2 |
| MSUR.833 | Planning Law | 2 |
| MSUR 818 | Planning Administration | 2 |
| MSUR.820 | Professional Practice | 2 |
| MSUR 800 | Planning Studio Practice – 2 | 2 |
| MSUR 881-884 | Seminars (1/semester) | 3+ |
| MSUR 891-894 | Thesis (4/semester) | 12+ |
| ***TOTAL CU*** | | 82 |

**6.7.2 M.Sc. Urban Management**

*Admission Requirement*

- BURP First degree with a minimum of $2^2$
- To satisfy general university requirements in Math and English at O Level
  Or
- First degree in appropriate field of study
  Postgraduate Diploma in the field of study is an advantage

*Course structure*

**First Semester**

| **Core Departmental Subjects** | |
|---|---|
| **First Semester** | |
| **Course Code Course Title** | **Credit Units** |
| MSCC 801 Computer Applications in Planning | 3 |
| MSCC 803 Project Planning and Management | 2 |
| MSCC 805 Land Resource Evaluation | 2 |

| | |
|---|---|
| MSCC 807 Economic and Environmental Justice | 2 |
| **Core Specialization Subjects – M.Sc. Urban Management** | |
| MSCU 801 Urban Management Components | 3 |
| MSCU 805 Urban Economics | 3 |
| MSCC 809 Urban and Regional Growth and Development | 2 |
| MSCU 881,883 Seminar I & III | 1/Semester |
| MSCU 891, 893 Research/Thesis I & III | 4/Semester |
| MSCU 800 Urban Management Studio | 3 |
| | |
| **Elective Subjects** | |
| First Semester | 2 |

**Second Semester**

| **Core Departmental Subjects** | |
|---|---|
| **First Semester** | |
| **Course Code Course Title** | **Credit Units** |
| MSCC 802 Remote Sensing and GIS in Planning | 2 |
| MSCC 804 Research Methods | 2 |
| MSCC 806 Quantitative Analytical Techniques | 2 |
| **Core Specialization Subjects – M.Sc. Urban Management** | |
| MSCU 802 Urban Management Policy and Practice | 2 |
| MSCU 804 Urban Environmental Policy and Practice | 2 |
| MSCU 806 Urban Management Studio I | 3 |
| MSCU 808 Urban Governance and Security | 2 |
| MSCU 810 Urban Utilities Planning and Management | 2 |
| MSCU 882, 884 Seminar II & IV | 1/Semester |
| MSCU 892, 894 Research/Thesis II & IV | 4/Semester |
| | |
| **Elective Subjects** | |
| Second Semester | 2 |

### 6.7.3 M.Sc. Tourism and Recreational Planning

*Admission Requirement*

- BURP First degree
- To satisfy general university requirements in Math and English at O Level
  Or
- First degree in appropriate field of study
  Postgraduate Diploma in the field of study is an advantage
- To satisfy general university requirements in Math and English at O Level

*Course structure*

**Semester 1:**

| **Core Departmental Subjects** | |
|---|---|
| | |
| **Course Code Course Title** | **Credit Units** |
| MSCC 801 Computer Applications in Planning | 3 |
| MSCC 803 Project Planning and Management | 2 |

| | |
|---|---|
| MSCC 805 Land Resource Evaluation | 2 |
| MSCC 807 Economic and Environmental Justice | 2 |
| **Core Specialization Subjects – M.Sc. Tourism and Recreation Planning** | |
| MSCT881, 883 Seminar I & III | 1/Semester |
| MSCT891, 893Research/Thesis I & III | 4/Semester |
| MSCT 800 Recreation Planning Studio | 3 |
| MSCT 801 Tourism in Economic Development | 3 |
| MSCT 803 Culture, Tourism and Recreation | 3 |
| MSCC 809 Urban and Regional Growth and Development | 2 |
| **Elective Subjects** | |
| First Semester | 2 |

**Semester 2:**

| **Core Departmental Subjects** | |
|---|---|
| | |
| **Course Code Course Title** | **Credit Units** |
| MSCC 802 Remote Sensing and GIS in Planning | 2 |
| MSCC 804 Research Methods | 2 |
| MSCC 806 Quantitative Analytical Techniques | 2 |
| **Core Specialization Subjects – M.Sc. Tourism and Recreation Planning** | |
| MSCT 802 Tourism Development Policy and Practice | 2 |
| MSCT 804 Hospitality and Tourism | 2 |
| MSCT 806 Tourism Planning Studio I | 3 |
| MSCT 808 Landscape Planning and Design | 3 |
| MSCT 810 Recreation Facilities Design and Development | 2 |
| MSCT882, 884 Seminar II & IV | 1/Semester |
| MSCT892, 894 Research/Thesis II & IV | 4/Semester |
| **Elective Subjects** | |
| Second Semester | 2 |

### 6.7.4 PhD Urban and Regional Planning

*Admission Requirements*

Master's degree in Urban and Regional Planning with a minimum CGPA of 3.50.

**Course Structure**

| ***Core Departmental Subjects*** | | ***Core Specialization Subjects*** | ***Electives*** |
|---|---|---|---|
| Research Methods | 2 CU | Elective subjects within the Department as may be recommended by the supervisory Committee amounting to 6 CU | Elective subjects within or outside the Department as may be recommended by the supervisory Committee amounting to 6 CU |
| Quantitative Analyses | 2 CU | | |
| Advanced Planning Theory | 2 CU | | |
| Geographic Information Systems | 2 CU | | |
| Total Core Departmental | 8 CU | | |

Total Workload distribution in the PhD Program

| | |
|---|---|
| Departmental Core Subjects | 8 CU |
| Core Specialization Subjects | 6 CU |
| Elective Subjects | 6 CU |
| PhD Seminars | 6CU |
| PhD Dissertation | 24 CU |
| **TOTAL** | **55 CU** |

# CHAPTER 7

# FACULTY OF LAW

*Postgraduate Programmes*
The Faculty presently runs three levels of post-graduate programmes, These are:
1. Postgraduate Diplomas departmentalized as follows:
a) Department of Commercial Law: PGD in Corporate Management Law (PGDCML)
b) Department of Islamic Law: PGD in Islamic Law (PGDIL)
c) Department of Public Law: PGD in International Law and Diplomacy (PGDILD)
d) Department of Private Law: PGD in Estate Management Law (PGDEML)

2. Master of Law: This is a Faculty based programme and not departmentalized. However the Faculty awards the following degrees:
a) LLM. (Commercial Law)
b) LLM. (Islamic Law)
c) LLM (Public law)
d) LLM. (Private Law)
e) MA Laws

3. M.Phil. and PhD. These are also a Faculty based Programmes and the award is in the following areas.
a) M.Phil. and PhD. (Commercial Law)
b) M.Phil. and PhD. (Islamic Law)
c) M.Phil. and PhD. (Public law)
d) M.Phil. and PhD. (Private Law)

### 7.1.1 PGD Military Judge Advocacy

This is a programme that is offered in collaboration with the Nigerian Army School of Military Police, Bassawa, Kaduna State.

### 7.1.2 MA Laws

*Admission Requirements*
The admission requirement are as follows.
(a) Five O'Level credit which must include a credit in English language.
(b) At least a second class lower degree in Law or
(c) 3rd class LL.B. with Postgraduate Diploma in Law from Faculty of Law Ahmadu Bello University, Zaria.

*Graduation Requirements*
The award of LL.M shall be conditional upon successful completion of the course work, seminar and writing an acceptable project.

Note: A student on the LL.M programme is required to earn a minimum of 34 credits unit from course work, seminar and research project.

*Duration Of The Programme*
*Course Structure*
Legal Research Methodology and Seminar are Core for all students. Furthermore, students are required to choose additional three subjects, 2 of such subjects must be from courses in the Department which the student desires to specialize. Note that project topic determines the department of LL.M. students

**Core Faculty Subjects**

| Course Code | Course Title | Credit units |
|---|---|---|
| LAWS 801 & 802 | Legal Research Methodology | 6 |
| LAWS 881& 882 | Seminar (1CU/Semester) | 2 |
| LAWS 891 & 892 | Project (2CU/Semester) | 4 |

**Department of Public Law - First Semester**

| Course Code | Course Title | Credit units | |
|---|---|---|---|
| LWPU 807 | Labour Law | | 3 |
| LWPU 803 | Comparative Criminal Law | | 3 |
| LWPU 801 | Comparative Constitutional Law | 3 | |
| LWPU 805 | Public International Law | 3 | |
| LWPU 809 | Environmental Law | | 3 |
| LWPU 811 | Civil and Criminal Procedures | 3 | |
| **Second Semester** | | | |
| LWPU 808 | Labour Law | | 3 |
| LWPU 804 | Comparative Criminal Law | | 3 |
| LWPU 802 | Comparative Constitutional Law | 3 | |
| LWPU 806 | Public International Law | 3 | |
| LWPU 810 | Environmental Law | | 3 |
| LWPU 812 | Civil and Criminal Procedures | 3 | |

**Department of Private Law – First Semester**

| Course Code | Course Title | Credit units | |
|---|---|---|---|
| LWPR 801 | Land Law | | 3 |
| LWPR 803 | Conflict of Laws | 3 | |
| LWPR 805 | Conveyancing Law and Practice | 3 | |
| LWPR 807 | Intellectual Property Law | 3 | |
| LWPR 809 | Family Law | | 3 |
| **Second Semester** | | | |
| LWPR 802 | Land Law | | 3 |
| LWPR 804 | Conflict of Laws | 3 | |
| LWPR 806 | Conveyancing Law and Practice | 3 | |
| LWPR 808 | Intellectual Property Law | 3 | |
| LWPR 810 | Family Law | | 3 |

**Department of Islamic Law - First Semester**

| Course Code | Course Title | Credit units | |
|---|---|---|---|
| LWIS 801 | Islamic Legal Theory | | 3 |
| LWIS 803 | Islamic Law of Marriage & Guardianship | 3 | |
| LWIS 805 | Islamic Law of Succession & Bequest | 3 | |
| LWIS 807 | Islamic Law of Evidence & Procedures | 3 | |
| LWIS 809 | Islamic Law of Banking Trade & Investment | 3 | |
| LWIS 811 | Theories and Principle of Islamic Criminal Laws | | 3 |
| **Second Semester** | | | |
| LWIS 802 | Islamic Legal Theory | | 3 |
| LWIS 804 | Islamic Law of Marriage & Guardianship | 3 | |
| LWIS 806 | Islamic Law of Succession & Bequest | 3 | |
| LWIS 808 | Islamic Law of Evidence & Procedures | 3 | |
| LWIS 810 | Islamic Law of Banking Trade & Investment | 3 | |

| | | |
|---|---|---|
| LWIS 812 | Application of Sharia Penal Justice in Nigeria 3 | |

**Department of Commercial Law – First Semester**

| **Course Code** | **Course Title** | **Credit units** |
|---|---|---|
| LWCM 801 | International Economic Law | 3 |
| LWCM 803 | Company Law and Policy | 3 |
| LWCM 805 | Law of Taxation | 3 |
| **Second Semester** | | |
| LWCM 802 | International Economic Law | 3 |
| LWCM 804 | Company Law and Policy | 3 |
| LWCM 806 | Law of Taxation | 3 |

**7.1.3 Masters in Law (LL.M).**

*Admission Requirements*

A Bachelor's degree in Law with a minimum of a Second class Upper. Other requirements as spelt out by the admission guidelines of the Ahmadu Bello University for postgraduate programs.

*Graduation Requirement*

Courses: The Faculty presently offers thirteen elective courses in the first year of admission into the Master of Laws (LL.M.) programme. A student is required to register for three courses one of which must be from the department he/she wants to specialise in. In addition an LL.M. candidate shall take a course in research methodology, Seminar and Research/Thesis (Faculty core courses).

Research: The student is also required to present one seminar paper each semester and to defend a thesis before a panel of examiner and to conform with all corrections demanded of the student

*Course Structure*

**Semester I**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| LWPU 807 | Labour Law | 4 |
| LWPR 801 | Property Law | 4 |
| LWPU 803 | Comparative Criminal Law | 4 |
| LWIS 805 | Islamic Law of succession & Bequest | 4 |
| LWIS 801 | Islamic Legal Theory | 4 |
| LWIS 803 | Islamic Law Relating to Marriage & Guardianship | 4 |
| LWCM 803 | Company Law & Policy | 4 |
| LWCM 801 | International Economic Law | 4 |
| LWCM 805 | Taxation | 4 |
| LWPU 801 | Comparative Constitutional Law | 4 |
| LWPU 805 | Public International Law | 4 |
| LWPR 803 | Conflict of Laws | 4 |
| LAWS 811 | Research Methodology | 4 |
| LAWS 881, 883 | Seminar I & III | 1/semester |
| LAWS 891, 893 | Research/Thesis I & III | 2/semester |
| **Semester II**<br>**Course Code** | **Course Title** | **Credit Units** |
| LWPU 808 | Labour Law | 4 |
| LWPR 802 | Property Law | 4 |

| | | |
|---|---|---|
| LWPU 804 | Comparative Criminal Law | 4 |
| LWIS 806 | Islamic Law of succession & Bequest | 4 |
| LWIS 802 | Islamic Legal Theory | 4 |
| LWIS 804 | Islamic Law Relating to Marriage & Guardianship | 4 |
| LWCM 804 | Company Law & Policy | 4 |
| LWCM 802 | International Economic Law | 4 |
| LWCM 806 | Taxation | 4 |
| LWPU 804 | Comparative Constitutional Law | 4 |
| LWPU 806 | Public International Law | 4 |
| LWPR 804 | Conflict of Laws | 4 |
| LWPU812 and 912 | Research Methodology | 4 |
| LAWS 882, 884 | Seminar II & IV | 1/semester |
| LAWS 892, 894 | Research/Thesis II & IV | 2/semester |

**7.1.4 M.Phil. Law**

*Admission Requirements*

(a) Five O' level credit which must include a credit in English language.
(b) LL.M by course work from any recognized University
(c) LL.M with 1st Class Honours from any recognized University

*Graduation Requirements*

(a) Candidates must submit an approved researched thesis
(b) Candidates must present themselves for oral internal and external defaces of their thesis.
(c) The candidate must have passed Research methodology course work
(d) The Candidates must have presented at least one seminar paper

**7.1.5 Doctorate of Law (PhD Law)**

*Admission Requirements*

(i) LL.B – 1st Class, Second Class (Hons.) from ABU or any recognised institution.
(ii) LL.M with thesis component from ABU or any recognised institution with a minimum CGPA of 3.50

*Graduation Requirements*

1. Course work where applicable (a Pass in Research Methodology, Data Processing or Advanced Computing)
2. Successful seminar presentation.
3. Required to defend his dissertation before the Panel of examiners and to conform to all correction demanded of him.

**7.2Departmentalised Postgraduate Diploma (PGD) Programmes**

**7.2.1 Postgraduate Diploma in Commercial Law/PGD Corporate Management Law**

*Admission requirements*

1. LL.B (Civil Law) or a First Degree from any recognized University

*Graduation Requirements:*

The Department presently offers six core courses for the PGDCML programme. A student is required to register all the six courses which include Research Methodology. The student is also required to submit a Long Essay/Project duly supervised by an Internal Examiner and to conform to all correction demanded of the student.

**7.2.2 Postgraduate Diploma in Islamic Law (PGDIL)**

*Admission requirements*

(i) LL.B (Civil) and LL.B. (Sharia) with specialisation in Islamic Law or
(ii) First degree in Humanities from ABU or any recognised university.

*Graduation Requirements:*

The Department presently offers Six Core Courses for the PGDIL Programme. A student is required to register all the Six Courses which include Research Methodology.
The student is also required to submit a Long Essay duly supervised by an Internal Examiner and to conform to all corrections demanded of the student.

*Course Structure*
**Semester I**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1. | LWIS 701 | Introduction to Islamic Law | 3 |
| 2. | LWIS 703 | Islamic Family Law | 3 |
| 3. | LWIS 705 | Islamic Criminal Law | 3 |
| 4. | LWIS 707 | Islamic Law of Procedure | 3 |
| 5. | LWIS 709 | Introduction to Nigerian Law | 3 |
| 6. | LWIS 711 | Research Methodology | 3 |
| 7. | LWIS 791 | Project I | 3/semester |

**Semester II**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| 1. | LWIS 702 | Introduction to Islamic Law | 3 |
| 2. | LWIS 704 | Islamic Law of Succession | 3 |
| 3. | LWIS 706 | Islamic Criminal Law | 3 |
| 4. | LWIS 708 | Islamic Law of Evidence | 3 |
| 5. | LWIS 710 | Research Methodology | 3 |
| 6. | LWIS 712 | Long Essay | 2 |
| 7. | LWIS 792 | Project II | 3/semester |

### 7.2.3 Postgraduate Diploma in Estate Management Law

*Admission Requirements*

i. LL.B 3rd Class
ii. HND at least at lower credit level in Estate Management, Land Survey, Quantity Survey, Urban and Regional planning, Architecture and other related field.
iii. B.Sc. 3rd class in any of the above mention field.

Applicants must comply with other admission guidelines of the Ahmadu Bello University for post graduate programmes

*Graduation Requirements.*
Students are expected to pass all courses as well as a project to be internally defended.

*Course Structure*
**Semester I**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| LWPR 701 | Estate Control 1 | 3 |
| LWPR 703 | Property Law. 1 | 3 |
| LWPR 705 | Conveyancing law and Practice 1 | 3 |
| LWPU 707 | Introduction to Law 1 | 3 |
| LAWS 709 | Research Methodology. 1 | 3 |
| LAWS 781 | Seminar I | 1/semester |
| LAWS 791 | Project I | 3/semester |

Semester II

| Course Code | Course Title | Credit Unit |
|---|---|---|

| | | |
|---|---|---|
| LWPR 702 | Estate Control 2 | 3 |
| LWPR 704 | Property Law. 2 | 3 |
| LWPR 706 | Conveyancing law and Practice 2 | **3** |
| LWPU 708 | Introduction to Law 2 | 3 |
| LAWS 710 | Research Methodology.2 | 3 |
| LAWS 712 | Long Essay | 2 |
| LAWS 782 | Seminar 2 | 1/semester |
| LAWS 792 | Project 2 | 3/semester |

*Research:*The student is also required to submit a project.

### 7.2.4 Postgraduate Diploma in International Law and Diplomacy (PGDILD)

*Admission Requirements:*

**(i)** LL.B (Civil) and LL.B. (Shari'a) or

**(ii)** First degree in Arts or Humanities from recognized university.

*Graduation Requirements*

The Department presently offers Six Courses for the PGDILD Programme viz: LAWS 701 – Research Methodology; LAWS 703 – Long Essay; LWPU 703 – International Human Rights Law & Practice; LWPU 705 – International Humanitarian Law and LWPU 707 – International Law & Diplomacy.

A student is requested to submit a Long Essay duly supervised by an Internal Examiner and must conform to all corrections demanded of the student.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| LWPU 701 | International Law & Diplomacy 1 | 3 Credit Units |
| LWPU703 | International Humanitarian Law 1 | 3 Credit Units |
| LWPU 705 | International Human Rights Law 1 | 3 Credit Units |
| LWPU 707 | Research Methodology1 | 3 Credit Units |
| LWPU 709 | Introduction to Law1 | 3 Credit Units |
| LWPU 781 | Seminar 1 | 1/semester |
| LWPU 791 | Project 1 | 3/semester |

**Second Semester**

| Course Code | Course Title | Credit Units . |
|---|---|---|
| LWPU 702 | International Law & Diplomacy 2 | 3 Credit Units |
| LWPU 704 | International Humanitarian Law 2 | 3 Credit Units |
| LWPU 706 | International Human Rights Law 2 | 3 Credit Units |
| LWPU 708 | Research Methodology2 | 3 Credit Units |
| LWPU 710 | Introduction to Law 2 | 3 Credit Units |
| LWPU 712 | Long Essay | 2 Credit Units |
| LWPU 782 | Seminar 2 | 1/semester |
| LWPU 792 | Project 33/semester | |

# CHAPTER 8

# FACULTY OF MEDICINE

## 8.1 DEPARTMENT OF CHEMICAL PATHOLOGY

### 8.1.1. M.Sc. Chemical Pathology

*Admission requirement*

a) Graduates inMedicine (MBBS) from ABU or any other recognized institution with good academic standing
b) Passing of an entrance examination to be organized by the Department

*Graduation requirement*

a) Course work
To qualify for MSc degree in Chemical Pathology, the candidate in addition to fulfilling the university postgraduate requirement must obtain a minimum of 36 credit units as specified below. Candidate must participate in both undergraduate and postgraduate seminars and participate in the running of metabolic/special clinic as an elective.
b) Examination
To be eligible to sit for the qualifying examination, each student must complete 75% attendance in all courses and produce a certain set of class work and assignments as may be prescribed. Continuous assessment will form 40% of the final marks which should not be less than 50%.
c) Research
Each eligible student must submit an acceptable Thesis and successfully defend it during the viva voce at the end of the program.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| CHPY 801 | Introductory Chemical Pathology | 4 | Core |
| CHPY 803 | Laboratory tests and management | 4 | " |
| CHPY 805 | Clinical biochemistry of metabolic disorders | 4 | " |
| CHPY 807 | Clinical biochemistry of endocrine function | 4 | " |
| CHPY 809 | Special topics in clinical biochemistry | 4 | " |
| CHPY 811 | Metabolic/Special clinics | 4 | " |
| CHPY 891,893 | Research/Thesis (4cu/semester) I, III | 4 | " |
| CHPY 881, 883 | Seminar (1cu/semester) I. III | 1 | |

**Semester 2**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| CHPY 802 | Advanced analytical techniques | 4 | Core |
| CHPY 804 | Disorder of body fluids and electrolyte | 4 | " |
| CHPY 806 | Clinical biochemistry of organ functions | 4 | " |
| CHPY 808 | Clinical nutrition | 4 | " |
| CHPY 810 | Practical and case discussion | 4 | " |
| CHPY 892,894 | Research/Thesis (4cu/semester) II, IV | 4 | " |
| CHPY 882, 884 | Seminar (1cu/semester) II, IV | 1 | " |

### 8.1.2 PhD (Chemical Pathology)

*Admission requirement*

1) Graduates in M.Sc. Chemical Pathology from ABU or any other recognized institution.
2) Satisfying the O/Level, MBBS and Masters requirements.
3) Applicants must have passed the Part 1 Fellowship in the area of Pathology.

*Graduation requirement*
The programme is primarily by Research Work.Research methods, data analysis and advanced computing shall also be undertaken as well as Seminar and Research/Dissertation.

Students are expected to complete a dissertation based on original field or laboratory research, which must contribute significantly to knowledge, and are examined base on their research findings and its applications and implications in academic and clinical sciences. The dissertation is finally accepted after a successful oral examination before an external and internal team of examiners.

*Course Structure*
**First semester**

| Course code | Course Title | C.U | Status |
|---|---|---|---|
| CHPY 991, 993, 995 | Research/Dissertation I, III, V | 6/semester | Core |
| CHPY 981, 983, 985 | Seminar I, III, V | 1/semester | Core |

**Second semester**

| Course code | Course Title | C.U | Status |
|---|---|---|---|
| CHPY 992, 994, 996 | Research/Dissertation II, IV, VI | 6/semester | Core |
| CHPY 982, 984, 986 | Seminar II, IV, VI | 1/semester | Core |

### 8.1.3 Doctor of Medicine (Chemical Pathology) –MD.

*Admission Requirements*
1. MBBS/BDS of any accredited University plus 10 years clinical experience. In addition, applicants must possess a recognised professional qualification at the Fellowship level after the MBBS/BDS degree.

*Graduation Requirements*
Submission of a Thesis that covers a specialty in Chemical Pathology. The Thesis presentation shall meet all the requirements specified by the University.

## 8.2. DEPARTMENT OF COMMUNITY MEDICINE

### 8.2.1 Field Epidemiology, Veterinary Epidemiology and Laboratory Training

*Admission Requirements*

i the course is open to candidates who possess an MBBS/MD, DVM, B. Pharm/Pharm.D, BMLS or BDS/DDSdegree or a minimum of a Second Class (lower division) degree in health related sciences from a recognizedUniversity.

ii Candidates should have at least two years appropriate work experience post degree in arelevant public health setting.

iii Prospective candidates must have obtained National Youth Service Corps (NYSC) discharge or exemption certificate.

iv Candidates must provide evidence of current employment within the public health system in Nigeria and a written commitment to return to work post and serve for at least three years after graduation.

v All candidates should meet the requirements to practice their respective professions.

vi Prospective candidates must provide evidence of sponsorship or availability of support for the course.

Candidates must also satisfy the matriculation requirements of the Ahmadu Bello University, Zaria as well as other admission requirements of the School of Postgraduate Studies of Ahmadu Bello University, Zaria.

*Programme Structure*

a. The MPH with options in Field Epidemiology Practice (FEP), Laboratory Epidemiology Practice (LEP) and Veterinary Epidemiology Practice (VEP) is a two-year full-time programme consisting of approximately 25% full-time class room courses and 75% full-time field training.

*Course work:*

The Program will spread over a period of 24 calendar months and shall be devoted to a work of didactic lectures, guided application, participation at departmental and faculty seminars and preparation of research work and dissertation. Students will be required to take didactic courses and will be placed to do field work. Students must obtain a minimum of 50% pass in all courses. Courses are allocated credit units. A candidate will be expected to pass courses totaling to 45 Credit units to be considered to have passed the course overall.

*Seminars/meetings:*

There will seminars/meetings to be conducted monthly throughout the course duration. Attendance is compulsory for all students. All students should present in-progress and final work. New topics may be discussed during the meetings.

*Practicum-Field training:*

a. Students are attached to the field for 75% of their two year training period. During the field training students will be supervised by approved field supervisors and lecturers from the faculty.

b Students will learn and refine applied field epidemiology, public health laboratory, and veterinary epidemiologypractice by performing various investigations and research projects in support of FMOH-identified needsthroughout the country.

c. Investigations and projects will be conducted under close supervision of the student's field supervisor and the faculty or N-FELTP staff.

d. Where possible, a student should not be placed in his or her host institution for the field experience of the programme as placement away from the host institution enhances learning.

e. Students must satisfactorily complete all of the following required field co-activities:

i. Surveillance system analysis (analyze laboratory surveillance data and evaluate a surveillance system)
ii. Conduct outbreak investigation
iii. Conduct an epidemiological analysis of a new or existing data set
iv. Design and conduct a study or survey to assess a health problem of public health importance
v. Critically appraise scientific literature
vi. Write a report for publication in an epidemiology bulletin
vii. Write a scientific manuscript for a peer reviewed journal
viii. Give an oral presentation at a national or international conference
ix. Respond appropriately to written or oral inquiries from the public, media and other health professionals

x. Apply management and economic tools in public health work
xi. Prepare and undertake practical teaching to locale community, and or at a public health course and/or serve as a mentor for FELTP short course students.

In addition, laboratory students will complete the following:
a. Design and operate laboratory quality assurance programme
- Diagnostics
- Surveillance (general and sentinel)
- Care (monitoring care)

b Manage laboratory equipment, reagents, and supplies
c Evaluate laboratory purchasing and inventory system
d Create a standard operating procedure for the laboratory process
e Evaluate laboratory standards and practices

*Course Structure*

## Semester 1:

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| **Core/common Courses** | | | |
| COMM 831 | Basic Epidemiology | 4(1+3) | Compulsory |
| COMM 833 | Computer Application in Public Health Research | 3(1+2) | Compulsory |
| COMM 835 | Laboratory Methods in Epidemiology | 3(1+2) | Compulsory |
| COMM 837 | Management and Leadership | 3(1+2) | Compulsory |
| COMM 839 | Epidemiology of priority diseases and Injuries | 3(1+2) | Compulsory |
| COMM 891,893 | Research/Project(2CU/semester) | 6(0+6) | Compulsory |
| **Field Epidemiology Track** | | | |
| **Public Health Laboratory Track** | | | |
| COMM 843 | Laboratory Methods | | |
| COMM 845 | Principles of Quality Assurance | 2(1+1) | |
| **Veterinary Epidemiology Track** | | | |
| COMM 841 | Advanced Epidemiology | 4(1+3) | |

## Semester 2:

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| **Core/common Courses** | | | |
| COMM 832 | Biostatistics | 4(1+3) | Compulsory |
| COMM 834 | Public Health Surveillance | 3(1+2) | Compulsory |
| COMM 836 | Communications in Public Health | 3(1+2) | Compulsory |
| COMM 838 | Teaching and Mentoring | 3(1+2) | Compulsory |
| COMM 892,894 | Research/Project(2CU/semester) | 6(0+6) | Compulsory |
| **Field Epidemiology Track** | | | |
| COMM 848 | Advanced Epidemiology | 4(1+3) | |

| | | |
|---|---|---|
| COMM 842 | Prevention Effectiveness | 3(1+2) |
| **Public Health Laboratory Track** | | |
| COMM 844 | Laboratory Management, Policy and systems | 2(1+1) |
| **Veterinary Epidemiology Track** | | |
| COMM 846 | Veterinary Epidemiology | 3(1+2) |

### 7.2.2 Masters of Public Health (MPH)

*Admission Requirements*

i. The MPH course is open to candidates who possess an MBBS degree of Ahmadu Bello University and BDS or anequivalent medical degree from a recognized University.
ii. All candidates must be registered with the Nigerian Medical and Dental Council and must have at least three years post degree cognate experience in Medicine, or Industry or Federal, State, Local Government and Healthand Safety Medical Programs.
iii. There shall be a facultative pretest to determine the eligibility of candidates who can most benefit from the course.

*Graduation Requirements*

i. To be eligible to sit for the qualifying examination, each student must complete 75% attendance in all courses andproduce a certain set of class work and assignments as may be prescribed. Continuous assessment will form 40% of the final marks.
ii. Each student is expected to pass a comprehensive examination at the end of the second semester in all the prescribed courses. To be eligible to undertake the three months project, a candidate must pass all parts of the examination with an average of at least 50%.
iii. Each eligible student must submit an acceptable project and successfully defend it during the viva voce at the end of 12 months.
iv. All other requirements of Ahmadu Bello University.
v. A candidate that fulfils all the above requirements shall be awarded a Master of Public Health of Ahmadu Bello University. In case of outstanding merit, that is, a candidate who passes all parts of the examination with an average of at least 70%, may, on the recommendation of the Board of Examiners be awarded an MPH degree with distinction.

*Course Structure*

**First Semester**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| MPH 801 | Epidemiology Principles & Methods | 3 |
| MPH 811 | Behavioural Sciences | 3 |
| MPH 803 | Health Statistics & Demography | 4 |
| MPH 813 | Computer Applications | 3 |
| MPH 807 | Occupational Health | 2 |
| MPH 805 | Heath Service Management | 4 |
| MPH 809 | Environmental Health | 3 |
| MPH 815 | Research Methodology | 2 |
| MPH 881, 883 | Seminar I, III | 1cu/semester |
| MPH 891, 893 | Research/project I, III | 3cu/semester |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| MPH 802 | Epidemiology of Communicable Diseases | 3 |
| MPH 812 | General Preventive Medicine | 2 |
| MPH 804 | Reproductive/Family Health | 3 |

| | | |
|---|---|---|
| MPH 806 | Primary Health Care (PHC) | 3 |
| MPH 808 | Health Education | 2 |
| MPH 818 | Fundamentals of Measurement and Evaluation in Public Health | 2 |
| MPH 882, 884 | Seminar II, IV | 1cu/semester |
| MPH 892, 894 | Research/project II, IV | 3cu/semester |
| MPH 810 | Public Health Nutrition | 2 |
| MPH 814 | Practical | 2 |
| **Total** | | **45** |

## 8.3 DEPARTMENT OF HUMAN ANATOMY

### 8.3.1 M.Sc. Human Anatomy

*Admission Requirement*

Minimum of B.Sc. Second Class Lower degree in Anatomy, Physiology, MBBS or B.D.S, or any relevant Biomedical Science degree with substantial gross anatomy component of the Ahmadu Bello University and other recognized institutions.

*Graduation Requirements*

To qualify for degree of M.Sc. in Human Anatomy, the candidate in addition to fulfilling the University Postgraduate requirements must obtain a minimum of 36 Credit Units as specified overleaf. 24 credit units shall be for course work, 8-12 credit units for thesis and 4 credit units for seminar. In addition, candidates must assist in teaching assignment to undergraduate and present seminars and also take a minimum of one elective course. The minimum period required for graduation shall be 3 semesters.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| ANAT 801 | Applied and Clinical Anatomy | 3 | Core |
| ANAT 803 | Advanced Neuroanatomy and Neurotracing Techniques | 3 | " |
| ANAT 805 | Advanced Histology | 3 | " |
| ANAT 807 | Advanced Embryology and Teratology | 3 | " |
| VMPH 801 | Biometry/Biostatistics | 3 | " |
| ANAT 809 | Molecular Genetics | 2 | " |
| ANAT 811 | Cell and Tissue Culture | 2 | " |
| ANAT 881 | Seminar I | 1/semester | " |
| ANAT 891 | Research Thesis I | 2/semester | " |
| **TOTAL** | | **22** | |

**Second Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| ANAT 802 | Advanced Histochemistry and Techniques | 3 | Core |
| ANAT 804 | Biological Anthropology | 3 | " |
| ANAT 806 | Research Orientation and Methodology | 3 | " |
| ANAT 808 | Embalming and Museum Techniques | 2 | " |
| ANAT 812 | Teaching and Practical | 2 | " |
| ANAT 814 | Molecular Cell Biology and Cytogenetics | 2 | " |
| ANAT 818 | Laboratory Technique and Management | 2 | " |
| ANAT 882 | Seminar II | 1/Semester | " |
| ANAT 892 | Research Thesis II | 4/Semester | " |
| **TOTAL** | | **20** | |

**Third Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| ANAT 883 | Seminar III | 1 | Core |
| ANAT 893 | Research Thesis III | 4 | " |
| **TOTAL** | | **5** | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| ANAT 884 | Seminar IV | 1 | Core |
| ANAT 894 | Research Thesis IV | 4 | " |
| **TOTAL** | | **5** | |

**8.3.2 Ph.D. Human Anatomy**

*Admission Requirement*

M.Sc. degree in Anatomy from Ahmadu Bello University or from any other recognized institutions; or a first degree in anatomy with a Master's degree in any relevant biomedical science with a minimum CGPA of 4.00 in both situations

*Graduation Requirements*

To qualify for the Ph.D. degree in Anatomy, the candidate in addition to fulfilling the university postgraduate requirements are required to obtain 45 Credit Units of Course Work, 24+ Credit Units is for Dissertation and 6 credit units is for seminar.. In addition, they have to participate in the teaching assignments of the Department. Candidates particularly from other Institutions found to be deficient in any Anatomy undergraduate or postgraduate core courses shall be made to offer such course. The period required for graduation is 6 Semester for fulltime and 10 semesters for part-time.

*Course Structure*

**First Semester**

| Course Code | Course Credit | Credit Units | Status |
|---|---|---|---|
| ANAT 901 | Endocrinology | 3 | Core |
| ANAT 903 | Introduction to stereology | 2 | " |
| ANAT 981 | Seminar I | 1 | " |
| ANAT 991 | Ph.D. Research/Dissertation I | 6 | " |
| **Total** | | **12** | |

**Second Semester**

| Course Code | Course Credit | Credit Units | Status |
|---|---|---|---|
| ANAT 902 | Advanced Microscopy | 3 | Core |
| ANAT 904 | Biomedical informatics | 2 | " |
| ANAT 982 | Seminar II | 1 | " |
| ANAT 992 | Ph.D. Research/Dissertation II | 6 | " |
| **Total** | | **12** | |

**Third Semester**

| Course Code | Course Credit | Credit Units | Status |
|---|---|---|---|
| ANAT 983 | Seminar III | 1 | Core |
| ANAT 993 | Ph.D. Research/Dissertation III | 6 | " |
| **Total** | | **7** | |

**Fourth Semester**

| Course Code | Course Credit | Credit Units | Status |
|---|---|---|---|
| ANAT 984 | Seminar IV | 1 | Core |
| ANAT 994 | Ph.D. Research/Dissertation IV | 6 | " |

| | | |
|---|---|---|
| **Total** | **7** | |

**Fifth Semester**

| Course Code | Course Credit | Credit Units | Status |
|---|---|---|---|
| ANAT 985 | Seminar V | 1 | Core |
| ANAT 995 | Ph.D. Research/Dissertation V | 6 | " |
| **Total** | | **7** | |

**Sixth Semester**

| Course Code | Course Credit | Credit Units | Status |
|---|---|---|---|
| ANAT 986 | Seminar VI | 1 | Core |
| ANAT 996 | Ph.D. Research/Dissertation VI | 6 | " |
| **Total** | | **7** | |

## 8.4 DEPARTMENT OF HUMAN PHYSIOLOGY

### 8.4.1 M.Sc. Human Physiology

*Admission Requirements*

(a) A good first degree (First or Second class) in Physiology, Anatomy, Pharmacology, Biochemistry, Physiotherapy, and Zoology.
(b) A graduate of Medicine, Veterinary medicine or Dentistry.

*Graduation Requirements*

A candidate will be awarded the M.Sc. Degree in Human Physiology when he has earned a minimum of 35 credits units and successfully defended his thesis in an oral examination.

All M.Sc. candidates will be examined in the relevant courses for which they are registered. The examinations comprises of continuous assessments and final examination in each course. They must score at least a total of 50% at the end of each course. Candidates must also present at least two seminars at departmental level.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| HPHY811 | Advanced Nerve and Muscle | 3 |
| HPHY813 | Advanced blood and body fluid | 3 |
| HPHY815 | Advanced cardiovascular Physiology | 4 |
| HPHY817 | Lab. Teaching/Practical | 3 |
| HPHY881,883 | Seminar I& III | 1 |
| HPHY823 | Advanced endocrinology | 3 |
| HPHY827 | Advanced Gastro intestinal Tract | 3 |
| HPHY829 | Advanced Research Methods | 4 |
| COMM810 | Biostatistics | 4 |
| HPHY891,893 | Research/Thesis I & III | 4/Semester |
| **Core Specialization: Referred to all undergraduate physiology courses offered in the Department** | | |
| HPHY831 | General Physiology I | 3 |
| **ELECTIVES** | | |
| PHCL803 | ANS Pharmacology | 3 |
| PHCL822 | Advanced CNS Pharmacology | 3 |
| PHCL803 | ANS Pharmacology | 3 |

| | | |
|---|---|---|
| PHCL807 | Advanced Endocrine Pharmacology | 4 |
| VMPH816 | Introduction to Molecular Genetics | 3 |

**Second Semester**

| | | |
|---|---|---|
| HPHY812 | Advanced Autonomic Nerve System | 3 |
| HPHY814 | Advanced Renal Physiology | 3 |
| HPHY816 | Advanced Respiratory Physiology | 4 |
| HPHY822 | Advanced Central Nervous System Physiology | 4 |
| HPHY824 | Advanced Reproductive Physiology | 3 |
| HPHY808 | Laboratory Teaching/Practical | 3 |
| HPHY882, 884 | Seminar II& IV | 1 |
| HPHY892,894 | Research/Thesis II & IV | 4 |
| **Core Specialization: Referred to all undergraduate physiology courses offered in the Department** | | |
| HPHY833 | General Physiology II | 3 |
| **ELECTIVES** | | |
| PHCL802 | Cardiovascular and Renal Pharmacology | 3 |
| PHCL808 | Biochemical Pharmacology | 3 |
| PHCL816 | Immuno Pharmacology | 3 |

**8.4.2 Doctor of Philosophy (Ph.D.) Human Physiology**

*Admission Requirements*

(1) Candidates with an MSc (Human Physiology) degree from this University or any other recognized University with a minimum CGPA of 3.50 .

(2). Candidates with an M. Phil (Human Physiology) degree from any recognized University

*Graduation Requirements*

A candidate will be awarded the PhD degree in Human Physiology when he has earned a minimum of 54 credits units and successfully defended his dissertation in an oral examination.

The PhD programme is based on original research work. All PhD candidates will be expected to present three seminars each: the first one, on a general topic; the second, on a research related topic (research proposal of their dissertation work) and the last one, on the data collected (towards the end of their research work).The dissertation and seminars has a credit load of 40 credit units. PhD candidates who are deficient in their chosen field of research may take course work relevant to their field of dissertation.

*Course Structure*

**First semester**

| Course code | Course Title | C.U | Status |
|---|---|---|---|
| HPHY 991, 993, 995 | Research/Dissertation | 6/semester | Core |
| HPHY 981, 983, 985 | Seminar I, III, IV | 1/semester | Core |

**Second semester**

| Course code | Course Title | C.U | Status |
|---|---|---|---|
| HPHY 992, 994, 996 | Research/Dissertation | 6/semester | Core |
| HPHY 982, 984, 986 | Seminar II, IV, VI | 1/semester | Core |

### 8.4.3 M.D (Human Physiology).

The M.D. degree is awarded to Medical graduates of this university who has over ten years of experience in Teaching and Medical research with special bias to Human Physiology.

## 8.5 DEPARTMENT OF MEDICINE

### 8.5.1 Doctor of Medicine (MD)

The MD degree is awarded to medical graduates of this university who have at least 10 years' experience in teaching and medical research in internal medicine or any of its subspecialties such as immunology, cardiology, infectious disease, endocrinology, nephrology, neurology, gastroenterology etc. Prospective candidates while submitting their application forms should present a clear proposal indicating their intention to either undertake a research work or present already researched work (published or unpublished) which has not been previously presented elsewhere for the award of degree or diploma. This notification should not be less than 12 calendar months prior to the date of intended award of the degree. Successful candidates would be assigned two advisors by the department depending on the area of interest. The final write up would be examined by a team of internal and external examiners. There is no course work required for this program.

### 8.5.2 M.Sc. Immunology

*Admission requirements:*

To gain admission into the M.Sc. postgraduate programme, applicants must meet the current entry requirements of the School of Postgraduate Studies. These include

**a**. a minimum of second class lower honours degree from recognised institutions in Biochemistry, Microbiology, Haematology, Chemical Pathology, Physiology and any other basic life science.

**b**. graduates from recognised institutions in Medicine and Veterinary Medicine

In each case of a – b above, candidates are expected to have also met the minimum criteria of at least five credits at O levels in Mathematics, English, Biology, Chemistry and Physics.

*Graduation requirements*

To graduate, the candidate must in addition to fulfilling other university criteria obtain a minimum of 35 credit units as well as a pass in seminar and dissertation defence.

*Course Structure*

**First Semester**

| Course code | Course title | Credit units |
|---|---|---|
| **Core /Compulsory Departmental course** | | |
| IMML 801 | Research orientation and laboratory organisation | 2 |
| IMML 803 | Overview of the Immune system | 2 |
| IMML 805 | The Immune response | 3 |
| **Core Specialization course** | | |
| IMML 807 | Immunopathology | 3 |
| IMML 809 | Immunomodulation | 2 |
| IMML 811 | Cancer Immunology | 2 |
| IMML 881, 883 | Seminars I & III (1/Semester) | 1 |
| IMML 891, 893 | Research/Thesis I & III (4/Semester) | 4 |
| IMML 813 | Practical | 3 |
| **Elective courses** | | |
| At the discretion of the supervisory committee e g Advanced parasitology, Medical Microbiology | | |

**Second Semester**

| Course code | Course Title | Credit Units |
|---|---|---|

| **Core/Compulsory Departmental courses** | | |
|---|---|---|
| IMML 802 | Advanced Biostatistics | 2 |
| IMML 804 | Molecular Immunology | 3 |
| IMML 806 | Antigen: antibody interactions; principles and applications in immunological techniques | 2 |
| **Core Specialisation courses** | | |
| IMML 808 | Immunity in defence and disease | 3 |
| IMML 810 | Recombinant DNA technology | 2 |
| IMML 812 | Applied Immunology | 3 |
| IMML 882,884 | Seminars II & IV | 1 |
| IMML 892,894 | Research/Thesis II & IV | 4 |
| IMML 813 | Practical | 3 |
| **Elective courses** | | |
| At the discretion of the supervisory committee e g Advanced Virology | | |

**8.5.3 Doctor of Philosophy (Ph.D.) Immunology**

*Admission requirements*

An MSc in Immunology from ABU or any other recognized reputable University

Formulation of a feasible research topic (Candidates are advised to liaise with lecturers in the Department on areas of research).

Other requirements as stipulated by the University postgraduate School (i.e. five relevant O level credits, a second class lower degree minimum, an MSc from a reputable Universityetc.).

*Graduation requirements*

As per the School of Postgraduate Studies requirements

*PhD Course Structure*

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| IMML 981-989 | Seminars (1/Semester) I - IX | 4+ |
| IMML 991-999 | Research/Dissertation (6/Semester) I - IX | 24+ |

## 8.6 DEPARTMENT OF NURSING SCIENCES

8.6.1 **MSc. Nursing Sciences**

*Areas of Specialization:*

Each candidate in the M.Sc.-. Nursing programme may specialize in any of the following areas:

| S/No | Major specialty | Minor specialty |
|---|---|---|
| 1. | Medical/Surgical Health/Nursing | Critical Care, Operative, Oncology |
| 2. | Mental Psychiatric/ Health/Nursing | Paediatric Psychiatric. Adolescents, Adult |
| 3. | Community Health Nursing | Gerontology, Environmental Health, Family Health |
| 4. | Maternal and Child Health Nursing | Woman's Health, Midwifery, Emergency Obstetrics |
| 5. | Nursing Education | Patient Education, Academic Education |
| 6. | Nursing Administration | Quality Control, Hospital Administration |

*Admission Requirements*

a. candidate must possess university and faculty Ordinary level certificate requirement at credit level in at least five subjects of English Language, General Mathematics, Biology, Chemistry and Physic in West African Examination Council Ordinary Level Certificate or its equivalent in not more than two sittings.

b. The candidates must possess RN or RN/RM Certificates in addition to Bachelor degree B. Sc Nursing/B.N. Sc. from Ahmadu Bello University or any other recognized University and must

obtain a minimum of second-class lower division. A postgraduate diploma in Nursing or other related disciplines may be an added advantage.

c. Candidate who has third-class degree from any institution mentioned in (b) above and possess a post graduate diploma in an area he wish to further his MSc. Nursing or spent three years after graduation are legible to be considered for the programme.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 801 | Theories and concepts in Nursing | 3 | Core |
| NURS 803 | Advanced Research Methodology and Statistics | 3 | Supportive |
| NURS 805 | Curriculum development | 2 | Supportive |
| NURS 807 | Health policy and legal issues | 2 | Supportive |
| NURS 809 | Advanced Primary Health Care | 2 | Core |
| NURS 811 | Nursing informatics and innovations | 3 | Core |
| NURS 881,883,885 | Seminar I, III, V | 1CU/Semester | 1 |
| NURS 891,893,895 | Research/Thesis I, III, V | 2CU/Semester | 2 |

**Specialization Courses**

Candidates must register courses in their various areas of specialization as listed below in the second semester.

**(A) Community Health Nursing Option**

**Second Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| NURS 802 | Advanced Community Health Nursing | 3 | Core |
| NURS 804 | Advanced Epidemiology | 2 | Core |
| NURS 806 | Health Education & Promotion | 2 | Supportive |
| NURS 808 | Advanced Occupational and Environmental Health | 2 | Core |
| NURS 810 | Programme Monitoring and Evaluation | 2 | Supportive |
| NURS 812 | Seminar in Community Health Nursing | 2 | Core |
| NURS 882 | Seminar II | 1CU/Semester | |
| NURS 892 | Research/Thesis II | 2CU/Semester | |
| **Elective Courses:** At least any two courses from other's specialty areas both for 2nd semester. | | | |

**Third Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 815 | Community Health Nursing Practicum | 4 | Core |
| NURS 883 | Seminar III | 1CU/Semester | |
| NURS 893 | Research/Thesis III | 2CU/Semester | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 884 | Seminar IV | 1CU/Semester | |
| NURS 894 | Research/Thesis IV | 2CU/Semester | |

**(B) Maternal and Child Health Nursing Option**

**Second Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 816 | Advanced Maternal and Newborn Nursing | 3 | Core |
| NURS 818 | Neonatal Health | 2 | Core |
| NURS 822 | Advanced Studies in Family Health | 3 | Core |

| | | | |
|---|---|---|---|
| NURS 826 | Contemporary Issues in Midwifery | 2 | Core |
| NURS 806 | Health Education & Promotion | 2 | Core |
| NURS 812 | Seminar in Midwifery | 2 | Core |
| NURS 882 | Seminar II | 1CU/Semester | |
| NURS 892 | Research/Thesis II | 2CU/Semester | |
| **Elective Courses:** At least any two courses from other's specialty areas both for 2nd semester. | | | |

**Third Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 813 | Maternal and Child Health Nursing Practicum. | 4 | Core |
| NURS 883 | Seminar III | 1CU/Semester | |
| NURS 893 | Research/Thesis III | 2CU/Semester | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 884 | Seminar IV | 1CU/Semester | |
| NURS 894 | Research/Thesis IV | 2CU/Semester | |

### (C) Medical-Surgical Nursing

**Second Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 832 | Advanced Medical and Surgical Nursing. | 3 | Core |
| NURS 834 | Palliative and Rehabilitative Nursing | 2 | Core |
| NURS 806 | Health Education & Promotion | 2 | Core |
| NURS 838 | Intensive/ Critical Care Nursing. | 2 | Core |
| NURS 842 | Oncology Nursing | 2 | Core |
| NURS 812 | Seminar in Medical and Surgical Nursing | 2 | Core |
| NURS 882 | Seminar II | 1CU/Semester | |
| NURS 892 | Research/Thesis II | 2CU/Semester | |
| **Elective Courses:** At least any two courses from other's specialty areas both for 2nd semester. | | | |

**Third Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 817 | Medical Surgical Nursing Practicum | 4 | Core |
| NURS 883 | Seminar III | 1CU/Semester | |
| NURS 893 | Research/Thesis III | 2CU/Semester | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 884 | Seminar IV | 1CU/Semester | |
| NURS 894 | Research/Thesis IV | 2CU/Semester | |

### (D) Psychiatric/Mental Health Nursing

**Second Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 846 | Psycho-Pathological Foundations of Mental Health | 2 | Core |
| NURS 848 | Advanced Psychiatric/Mental Health Nursing | 3 | Core |
| NURS 852 | Family and Group Psychiatric/Mental Health Nursing. | 2 | Core |
| NURS 854 | Advanced Community Psychiatric/Mental Health Nursing | 2 | Core |

| | | | |
|---|---|---|---|
| NURS 806 | Health Education & Promotion | 2 | Core |
| NURS 856 | Seminar in Psychiatric/Mental Health Nursing | 2 | Core |
| NURS 882 | Seminar II | 1CU/Semester | |
| NURS 892 | Research/Thesis II | 2CU/Semester | |
| **Elective Courses:** At least any two courses from other's specialty areas both for 2nd semester. | | | |

**Third Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 819 | Psychiatric/Mental Health Nursing Practicum | 4 | Core |
| NURS 883 | Seminar III | 1CU/Semester | |
| NURS 893 | Research/Thesis III | 2CU/Semester | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 884 | Seminar IV | 1CU/Semester | |
| NURS 894 | Research/Thesis IV | 2CU/Semester | |

### (E) Nursing Education

**Second Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 858 | Education thought and practice | 3 | Core |
| NURS 860 | Advanced Educational Psychology in Nursing | 2 | Core |
| NURS 806 | Health Education & Promotion | 2 | Core |
| NURS 862 | Advanced Educational Administration and Planning | 2 | Core |
| NURS 864 | Measurement and Evaluation in Nursing Education | 2 | Core |
| NURS 866 | Seminar in Nursing Education | 2 | Core |
| NURS 882 | Seminar II | 1CU/Semester | |
| NURS 892 | Research/Thesis II | 2CU/Semester | |
| **Elective Courses:** At least any two courses from other's specialty areas both for 2nd semester. | | | |

**Third Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 821 | Teaching Practice | 4 | Core |
| NURS 883 | Seminar III | 1CU/Semester | |
| NURS 893 | Research/Thesis III | 2CU/Semester | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 884 | Seminar IV | 1CU/Semester | |
| NURS 894 | Research/Thesis IV | 2CU/Semester | |

### (F) Health and Nursing Administration

**Second Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 868 | Advance Principles of Health planning and Nursing Administration. | 2<br>1 | Core |
| NURS 872 | Advanced Health Policy Formulation | 2 | Core |

| | | | |
|---|---|---|---|
| NURS 874 | Advanced Human Resources Planning and Management in Health | 2 | Core |
| NURS 876 | Health Economics and Health Care Financing | 2 | Core |
| NURS 806 | Health Education & Promotion | 2 | Core |
| NURS 878 | Seminar in Health and Nursing Administration | 2 | Core |
| NURS 882 | Seminar II | 1CU/Semester | |
| NURS 892 | Research/Thesis II | 2CU/Semester | |
| **Elective Courses:** At least any two courses from other's specialty areas both for 2nd semester. | | | |

**Third Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 823 | Health and Nursing administration Practicum | 4 | Core |
| NURS 883 | Seminar III | 1CU/Semester | |
| NURS 893 | Research/Thesis III | 2CU/Semester | |

**Fourth Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 884 | Seminar IV | 1CU/Semester | |
| NURS 894 | Research/Thesis IV | 2CU/Semester | |

### 8.6.2 Ph.D. Nursing Sciences

*Admission Requirements*

a. PhD Candidates must possess a good Bachelor of Nursing Science (B.Sc. Nursing/ B.N.Sc) degree and a good M. Sc. degree in Nursing or Master's degree in related disciplines from Ahmadu Bello University or any other recognized university.
b. Candidates with master's degrees in related disciplines shall be admitted into the M Phil/PhD Nursing Science programme during which the candidate must register and pass all the M.Sc. Nursing courses as required. To continue with the PhD on completion of the course work, such candidate must obtain a minimum CGPA of 3.50 on a 5 point scale.
c. Candidates who have successfully converted from M.Phil./ Ph.D. in Nursing programme.

*Transfer From M.Phil. To Ph.D.*

A Candidate who has been registered for the degree of Master of Philosophy (M.Phil.) programme for not less two semesters and who, in the course of his work, has shown exceptional ability may be transferred as candidate to the Doctor of Philosophy (Ph.D.) degree programme subject to the following conditions:

(i) That he/she has completed the coursework requirements for the M.Phil. degree with a weighted average grade of not less than (3.5CGPA)
(ii) That he/she completes and defends a Thesis.

**Areas of specialization:**

Medical/Surgical Health/Nursing
Mental Psychiatric/ Health/Nursing
Community Health Nursing
Maternal and Child Health Nursing
Nursing Education
Nursing Administration

All applicants must be registerable by the Nursing and Midwifery Council of Nigeria

*Course Work Requirements*

This will be tailored to the academic status /deficiencies of each candidate.

*Course Structure*

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 901 | Seminar in Contemporary issues in Nursing | 3 | Core |
| NURS 902 | Seminar in Areas of nursing Specialty | 3 | ,, |
| NURS981,982, 983, 984,985,986 | Seminar (I-VI) | 1/Semester | |
| NURS 991,992,993, 994,995,996 | Research/Dissertation (I – VI) | 6/Semester | |

**Electives**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| NURS 906 | Health Policy Analysis | 3 | Elective |
| NURS 907 | Pollution and Family Heath | 3 | ,, |
| NURS 908 | Health System Research | 3 | ,, |

## 8.7 DEPARTMENT OF PATHOLOGY (MORBID ANATOMY)

### 8.7.1 Master of Science (MSc) in Pathology (Clinical Laboratory Management)

*Admission Requirements*

i) The course will be open to candidates who possess MBBS from the Ahmadu Bello University or from any other recognized University.

ii) Prospective candidates must have obtained National Youth Service Corps (NYSC) discharge or exemption certificate.

iii) Candidates must satisfy the matriculation requirements of the Ahmadu Bello University, Zaria. All candidates must satisfy other admission requirements of the Post graduate School of Ahmadu Bello University, Zaria.

iv) Candidates must undergo a screening examination to assess their suitability for the programme.

*Graduation Requirements*

a. At the end of each semester, students will be assessed based on the courses completed during that semester. Final assessments will include written examinations; and reports of laboratory posting, seminars and thesis. Any student who fails to meet the requirements of this examination shall carry over the examination at the next available opportunity.

b. Continuous assessments will be conducted on an ongoing basis through class work assignments/tests, essays, practical, tutorial and community works. This will form 30% of the final marks.

c. Clinical Service and Public Health/Research Laboratory attachments are designed to show the cumulative effect of the skill and knowledge gained across a series of subject areas. Laboratory postings will be graded using a log book of expected competencies. Each student will be expected to score a minimum of 50% to pass.

d. The Candidate must submit a thesis in pathology laboratory management under the supervision of a relevant faculty staff. This will involve laboratory and/or field data collection, entry, analysis and interpretation of results. The thesis topic will be approved after presentation at a departmental seminar. The final report of the thesis will be defended in accordance with rules and regulations governing Postgraduate examinations of the Ahmadu Bello University at the end of the second year.

e. A student that fulfills all of the above requirements shall be awarded Master of Science (M.Sc.) in Pathology (Clinical Laboratory Management).

f. In case of outstanding merit, that is, a student who passes all parts of the examination with an average of at least CGPA of 4.0, on the recommendation of the Board of Examiners, be given an award.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units | Course Status |
|---|---|---|---|
| PATH 801 | Pathology of selected diseases | 1 | Core Departmental |
| PATH 803 | Introduction to Clinical Laboratory | 2 | Core Specialization |
| PATH 805 | Basic Laboratory Management | 2 | Core Departmental |
| PATH 807 | Medical Informatics | 2 | Elective |
| PATH 809 | Basic Epidemiology | 1 | Core Departmental |
| PATH 881 | Seminar I | 1 | Core Departmental |
| PATH 891 | Research/Thesis | 2 | Core Departmental |

**Second Semester**

| | | | |
|---|---|---|---|
| PATH 802 | Quality Management Systems | 2 | Core Specialization |
| PATH 804 | Advanced Laboratory Management | 2 | Core Specialization |
| PATH 806 | Advanced Laboratory Methods | 2 | Core Specialization |
| PATH 808 | Research Methods | 2 | Core Departmental |
| PATH 882 | Seminar II | 1 | Core Departmental |
| PATH 892 | Research/Thesis | 2 | Core Departmental |

**Third Semester**

| | | | |
|---|---|---|---|
| PATH 813 | ClinicalService Laboratory Posting | 5 | Core Specialization |
| PATH 883 | Research/Thesis | 2 | Core Departmental |
| PATH 893 | Seminar III | 1 | Core Departmental |

**Fourth Semester**

| | | | |
|---|---|---|---|
| PATH 814 | Public health/Research Laboratory Posting | 5 | Elective |
| PATH 884 | Research/Thesis | 2 | Core Departmental |
| PATH 894 | Seminar IV | 1 | Core Departmental |

Seminars: PATH 881, 882, 883, 884; Four (4) credit units
Research/Thesis: PATH 891, 892, 893, 894; Eight (8) credit units

**8.7.2Doctor of Philosophy (Ph.D.) in Pathology (Clinical Laboratory Management)**

*Admission Requirements*

i) The course is open to candidates who possess M.Sc. Pathology or its equivalent with a minimum CGPA of 3.5.
ii) Candidates with MPH or its equivalent who have at least four (4) years of laboratory medicine (pathology) practice are also eligible.
iii) Candidates must have Part 1 Fellowship of the National Postgraduate Medical College of Nigerian Pathology (Laboratory Medicine) or its equivalent.
iv) Candidates must satisfy the matriculation requirements of the Ahmadu Bello University, Zaria. All candidates must satisfy other admission requirements of the Post graduate School of Ahmadu Bello University, Zaria.
v) Candidates must undergo a screening examination to assess their suitability for the programme.

*Graduation Requirements*

i) Final assessments will include written examinations, seminars and dissertation.

ii) The Candidate must submit a dissertation on Clinical Laboratory Management under the supervision of a relevant faculty staff. The candidate must be able to develop research questions that anchor on clinical laboratory principles and practice. The dissertation topic will be approved after presentation at a departmental seminar. This will involve laboratory and/or field data collection, entry, analysis and interpretation of results. The final report of the dissertation will be defended in accordance with rules and regulations governing Postgraduate examinations of the Ahmadu Bello University at the end of the second year.

iii) For a student to graduate, he must pass all courses and have a minimum of two seminar presentations. Where a student falls short of these graduation requirements at the expiration of his/her period of study, he may be awarded an **MPhil** in Pathology.

iv) A student that fulfills all of the above requirements shall be awarded Doctor of Philosophy (Ph.D.) in Pathology (Clinical Laboratory Management).

*Course Structure*

| **Course Code** | **Course title** | **Credit unit** |
|---|---|---|
| PATH 901 | Advanced research methods | 3 CU |
| PATH 902 | Data analysis and management | 3 CU |
| PATH 991, 992, 993, 994 | Research/Dissertation | 6CU/Semester |
| PATH 981, 982, 983, 984 | Seminars I, II, III, IV | 1CU/Semester |

# CHAPTER 9

# FACULTY OF PHARMACEUTICAL SCIENCES

## 9.1 DEPARTMENT OF CLINICAL PHARMACY AND PHARMACY PRACTICE

### 9.5.1 M.Sc. Clinical Pharmacy

The M.Sc. Clinical Pharmacy degree is a full time programme consisting of coursework and research.

*Admission Qualification*

To be eligible for M.Sc. in Clinical Pharmacy, candidates must;

i. Have Bachelor of Pharmacy (B.Pharm) degree or Doctor of Pharmacy (Pharm.D) from a recognized university
ii. Have attained a satisfactory level of performance in the university's admission test and interview where applicable.

*Graduation Requirements*

i. Course work: Candidates are expected to take and pass all the core courses and elective courses from outside the department as prescribed by the department. Candidates should take elective courses relevant to their area of research interest in consultation with their supervisors. Candidates must earn a minimum of 42 credit units of course work.
ii. Assessment: Assessment includes both continuous assessment and written examinations, which shall be given for every course at the end of each semester. The total score obtainable for any course is 100%, which comprise of Continuous Assessment (40%) and Final Examination (60%). Each course shall normally be completed and examined at the end of the semester in which it is offered. A written examination shall normally have a maximum of 3 hours duration for each course. The minimum pass mark for each course work is 50% (C).
iii. M.Sc. Seminar**:** Candidates are to present seminar each semester including research proposal, progress report, and final project presentation, on other current relevant topics/recent advances in Clinical Pharmacy to the research area. The minimum pass mark for seminar is 50% (C).
iv. M.Sc. Thesis: At the end of the course the student shall produce a thesis to be defended before a panel of internal and external examiners. The Thesis shall carry 6 (six) credit units. The minimum pass mark for thesis is 50% (C).

**First Semester:**

*Core Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCP 801 | Advanced Pharmacotherapeutics I | Core | 3 |
| PHCL 813 | Biostatistics | Core | 2 |
| PHCP 803 | Clinical Laboratory Investigations and Patient | Core | 3 |

| | | | |
|---|---|---|---|
| | Assessment | | |
| PHCP 805 | Clinical Pharmacokinetics and Therapeutic Drug Monitoring | Core | 3 |
| PHCP 807 | Pharmaceutical Care | Core | 2 |
| PHCP 809 | Research Methodology in Pharmacy Practice | Core | 2 |
| PHCP 881 | M.Sc. Seminar I | Core | 1 |
| PHCP 891 | M.Sc. Research/Thesis I | Core | 4 |

*Core Specialization Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCP 811 | Pharmacy Practice Management | Core | 3 |
| PHCP 813 | Pharmacoeconomics | Core | 2 |

*Elective Courses*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCH 803 | Advanced Pharmaceutical Analysis | Elective | 3 |
| PHCG 805 | Traditional Medicine and Medicinal Plant | Elective | 4 |
| PHCG 815 | Pharmaceutical Necessities of Plant Origin | Elective | 3 |
| PHCL 807 | Antiviral Chemotherapy | Elective | 2 |
| PHCL 809 | Antibacterial Chemotherapy | Elective | 3 |
| PHCL 811 | Antiparasitic Chemotherapy | Elective | 3 |

**Second Semester:**

*Core Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCP 802 | Advanced Pharmacotherapeutics II | Core | 3 |
| PHCP 804 | Advanced Pharmacotherapeutics III | Core | 3 |
| PHCP 808 | Communication Skills & Patient Counseling | Core | 3 |
| PHCP 810 | Pharmacovigilance & Drug Information Services | Core | 3 |
| PHCP 882 | M.Sc. Seminar II | Core | 1 |
| PHCP 892 | M.Sc. Research/Thesis II | Core | 4 |

*Core Specialization Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCP 806 | Advanced Public Health Pharmacy | Core | 2 |

*Elective Courses*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 806 | Advanced Pharmacokinetics | Elective | 4 |
| PHCT 802 | Stability of Pharmaceutical Products | Elective | 3 |

**Third Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 821 | Pharmacy Ward Practice | Core | 6 |
| PHCP 883 | M.Sc. Seminar III | Core | 1 |
| PHCP 893 | M.Sc. Research/Thesis III | Core | 4 |

**Fourth Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 884 | M.Sc. Seminar IV | Core | 1 |
| PHCP 894 | M.Sc. Research/Thesis IV | Core | 4 |

### 9.5.2 PhD Clinical Pharmacy

*Admission Requirement*

To be eligible for PhD Clinical Pharmacy, Candidates must;

i. Be Pharmacists who have masters in Clinical Pharmacy from a recognized University. The master's degree can be either M.Sc. Clinical Pharmacy or M.Pharm Clinical Pharmacy.
ii. Have attained a satisfactory level of performance in the university's admission test and interview where applicable.

*Graduation Requirements*

Ph.D. Clinical Pharmacy is mainly by research and seminar presentation. The minimum total credit a candidate must earn before awarded PhD Clinical Pharmacy degree is sixty (60) Credit Units (inclusive of credit units earned at the masters level).

i. PhD Seminar: Candidates are to present seminars each semester including research proposal, progress report, and final project presentation and on other current relevant topics/recent advances in Clinical Pharmacy.
ii. PhD Dissertation:At the end of the course the student shall produce dissertation to be defended before a panel of internal and external examiners.

*Course Structure*

**First Semester:**

*Core Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCP 981 | PhD Seminar I | Core | 1 |
| PHCP 991 | PhD Research/Dissertation I | Core | 6/Semester |

**Second Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 982 | PhD Seminar II | Core | 1 |
| PHCP 992 | PhD Research/Dissertation II | Core | 6 |

**Third Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 983 | PhD Seminar III | Core | 1 |
| PHCP 993 | PhD Research/Dissertation III | Core | 6 |

**Fourth Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 984 | PhD Seminar IV | Core | 1 |
| PHCP 994 | PhD Research/Dissertation IV | Core | 6 |

**Fifth Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 985 | PhD Seminar V | Core | 1 |
| PHCP 995 | PhD Research/Dissertation V | Core | 6 |

**Sixth Semester:**

*Core Courses:*

| | | | |
|---|---|---|---|
| PHCP 986 | PhD Seminar VI | Core | 1 |
| PHCP 996 | PhD Research/Dissertation VI | Core | 6 |

## 9.2 DEPARTMENT OF PHARMACEUTICAL AND MEDICINAL CHEMISTRY

### 9.2.1 M.Sc. Pharmaceutical Chemistry

The M.Sc. Pharmaceutical Chemistry is a Full Time Programme with minimum of 3 and maximum of 4 semesters.

*Admission Requirements*

1. To qualify for the master's degree, candidate should possess a first degree in pharmacy from a recognized university.
2. A graduate of chemistry or biochemistry with at least $2^2$ division.

*Graduation Requirements*

I) Student shall obtain the degree of M.Sc. Pharmaceutical Chemistry by course work and scientific research within the relevant fields.

II) The Supervisors would prescribe course work and the research topic will be determined in consultation with the supervisors, which will later be presented to the Departmental PG Committee, Faculty PG Board, SPGS Board and finally the Senate for confirmation.

III) The student is expected to present two seminars i.e. proposal before the commencement of research work, progress/final seminar.

IV) The research project will comprise of comprehensive introduction of study's methodology for advance research in appropriate field so as to enable the student make original contribution to the existing knowledge.

V) The student must have earned a minimum of 30 CU (excluding seminars and research) before graduation.

VI) At the end of the research work candidate will be require to produce a thesis which will be examine by an external examiner.

VII) The award of degree will be governed by the university higher degree regulation.

*Course Structure*

In addition to **PHCL 813 Biostatistics** all the five departmental courses are compulsory for postgraduate students. However, students may wish to offer other elective courses which will be determine by the supervisor.

**Semester 1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PHCH 801 | Medicinal Chemistry | 4 |
| PHCH 803 | Advanced Pharmaceutical Analysis | 4 |
| PHCH 805 | Concept in Drug Design | 4 |
| PHCH 881,883 | Seminar (1cu/semester) | 1 |
| PHCH 891,893 | Research/Thesis (4cu/semester) | 4 . |

**Semester II**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PHCH 802 | Organic Synthesis | 4 |
| PHCH 804 | Chemistry of Natural Product | 4 |
| PHCH 882,884 | Seminar (1cu/semester) | 1 |
| PHCH 894,894 | Research/Thesis (4cu/semester) | 4 . |

**Elective**

| Course Code | | Course Title | Credit Units |
|---|---|---|---|
| PHCG 807 | - | Advanced Chromatography | 4 |
| PHCL 806 | - | Advanced Pharmacokinetics | 4 |
| PHCG 801 | - | Evaluation of Crude Drugs | 4 |
| PHCG 811 | - | Advances in Phytochemistry & Drug Development. | 4 |

Non pharmacy graduates are also required to take some undergraduate courses i.e.

| Course Code | Course Title | Credit Units |
|---|---|---|
| PHCH 501 | Physiochemical Principle of medicinal chemistry | 2 |

| | | |
|---|---|---|
| PHCH 503 | Medicinal Chemistry 1 | 1 |
| PHCH 502 | Medicinal Chemistry 11 | 2 |

**9.2.2 Ph.D. Pharmaceutical Chemistry**

The maximum duration for Ph.D. Full Time is 3years while the Part Time Ph.D. Programme is for a maximum of five years.

*Admission Requirements*

Candidate should have a Master degree in Pharmaceutical Chemistry or M.Sc. Chemistry or Biochemistry from a recognized University.

*Graduation Requirements*

For the award of Ph.D. degree in Pharmaceutical Chemistry the scope is by original research work and this would be determine by the supervisors with approval from the Faculty Postgraduate Committee. The Degree requirement includes:

*Graduation Requirements*

I) Student shall obtain the degree of PhD. Pharmaceutical Chemistry by scientific research within the relevant fields.

II) The Supervisors would prescribe course work and the research topic will be determined in consultation with the supervisors, which will later be presented to the Departmental PG Committee, Faculty PG Board, SPGS Board and finally the Senate for confirmation.

III) The student is expected to present a minimum of four seminars i.e. proposal before the commencement of research work, progress, results andfinal seminar.

IV) The research/Dissertation (PHCH 991-999) will comprise of comprehensive introduction of study's methodology for advance research in appropriate field so as to enable the student make original contribution to the existing knowledge.

V) The student must have earned a minimum of 30 CU (excluding seminars and research) before graduation.

VI) At the end of the research work candidate will be require to produce a Dissertation which will be examine by a panel of examiners.

VII) The award of degree will be governed by the university higher degree regulation.

## 9.3 DEPARTMENT OF PHARMACEUTICS AND PHARMACEUTICAL MICROBIOLOGY

*Research areas in Pharmaceutics*

1. Pharmaceutics
2. Pharmaceutical Technology
3. Formulation sciences.

**9.4.1 M.Sc. Pharmaceutics**

*Admission Requirements*

Graduates with the following qualifications are eligible for admission:

1. B.Sc. (pharmacy) with a minimum of second class lower degree and one year post-qualification experience. Candidates with third class degree are only considered after five years post qualification or those with postgraduate diploma in relevant areas of pharmaceutics.
2. B. Pharmacy degree with at least one year post-qualification experience.

*Graduation Requirement*

A student for the M.Sc. degree is required to meet the following requirements before graduation:

a. Course Work: Earn a minimum of 18 credit units in at least six core course units, one of which must be the Research methodology and Data analysis. The minimum pass mark for each course work is 50% (C).
b. Seminars: Present and pass three seminars, categorized as follows:
   - ✓ Seminar I: Research proposal
   - ✓ Seminar II: Interim Report of research work

- ✓ Seminar: III Final project presentation

The minimum pass mark for each seminar is 50% (C).

c. Project: Write a thesis on the research work carried out and successfully defend it before a panel of examiners (external and internal examiners).

*Course Structure*

Course works shall be undertaken by the students in the first and second semesters of the programme. There are core and elective courses. PHCT813 (research methodology and data analysis) is compulsory for all students.

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Semester I: Core Courses** | | |
| PHCT 801: | Formulation of Pharmaceutical Dosage Forms | 4CU |
| PHCT 805: | Powder and Tablet Technology | 4CU |
| PHCT 809: | Dispersed Systems and Semi-solids Dosage Forms | 4CU |
| PHCT 813: | Research Methodology and Data Analysis | 4CU |
| PHCT 881, 883 | Seminar I, III 1cu/semester | |
| PHCT 891, 893 | Research/Thesis I, III4cu/semester | |
| **Semester 2** | | |
| PHCT802: | Stability of Pharmaceutical Products | 4CU |
| PHCT 806: | Dissolution and Sustained Release Technology | 4CU |
| PHCT 810: | Biopharmaceutics, Pharmacodynamics and Pharmacokinetics | 4CU |
| PHCT 882, 884 | Seminar II, IV 1cu/semester | |
| PHCT 892, 894 | Research/Thesis II, IV4cu/semester | |

All Postgraduate students are required to present a project proposal to the Department for approval before commencement of their bench work.

### 9.4.2 M Sc. Pharmaceutical Microbiology

*Admission Requirements*

Candidates for admission into the M.Sc. (Pharm. Microbiology) degree programme are required to possess any of the following qualifications:

- B. Sc. Pharmacy
- B. Pharm.
- B. Sc. Microbiology
- B. Sc. Food Technology
- B. Sc. Biotechnology
- DVM
- MBBS
- B.Sc. Public Health

*Graduation Requirement*

A student for the M.Sc. (Pharmaceutical Microbiology) degree is required to meet the same requirement as for M.Sc. (Pharmaceutics).

*Course Structure*

Course works shall be undertaken by the students in the first and second semesters of the programme. There are core and elective courses. PHCT813 (research methodology and data analysis) is compulsory for all students.

M. Sc. Pharmaceutical Microbiology

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Semester I** | | |

PHCT 803: Chemical Antimicrobial Agents: Properties, applications and evaluations - 4CU
PHCT 807: Industrial Fermentation of Pharmaceutical product - 4CU
PHCT 811: Bacterial Genetics and Drug Resistance - 4CU
PHCT 813: Research Methodology and Data Analysis - 4CU
PHCT 815: Microbial Contamination and Spoilage of Pharmaceutical and Allied Products - 3CU
PHCT 881,883 Seminar (1cu/semester) I. III 1
PHCT 891,893 Research/Thesis (4cu/semester) I, III4

**Semester II**
PHCT804: Pharmaceutical Biotechnology - 4CU
PHCT 808: Antimicrobial Preservative and Preservation of Pharmaceutical products - 4CU
PHCT 812: Epidemiology - 4CU
PHCT 814: Emerging and Re- emerging Diseases - 3CU
PHCT 816: Sterile Dosage Forms - 3CU
PHCT 882,884 Seminar (1cu/semester) II, IV 1
PHCT 892,894 Research/Thesis (4cu/semester) II, IV4 .

### 9.4 3. PhD Pharmaceutics

*Admission Requirements*

Candidates for admission into the PhD degree programme are required to have obtained one of the following qualifications: M.Sc. (Pharmaceutics), M.Sc. (Pharmaceutical Technology), M.Sc. (Biopharmaceutics) and M.Sc. (Pharmaceutical Microbiology) provided the first degree is in Pharmacy

*Graduation Requirement*

The PhD degree programme is by research and selected courses.

Seminar: Each student is expected to present a seminar every semester:

- Seminar I: Research proposal. This is a prerequisite for starting the bench work.
- Seminar II: Preliminary research findings
- Seminar III
- Seminar IV
- Seminar V: Mid-term research work findings
- Seminar VI: End of Research Project

Project: Write a dissertation on the research work carried out and successfully defend it before apanel of examiners (external and internal examiners). The total credit a student must earn before the award of Doctor of philosophy in Pharmaceutics and Pharmaceutical Microbiology is 44 credit units.

*Course Structure*

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Year 1: Semester 1** | | |
| PHCT 981: | Seminar I (Research proposal) | 1/semester |
| PHCT 991 | Research/Dissertation 1 | 6/semester |
| **Semester 2** | | |
| PHCT 982: | SeminarII (Research proposal) | 1/semester |
| PHCT 992 | Research/Dissertation I1 | 6/semester |
| **Year 2: Semester 1** | | |
| PHCT 983: | Seminar III (Research proposal) | 1/semester |
| PHCT 993 | Research/Dissertation III | 6/semester |

| | | |
|---|---|---|
| **Semester 2** | | |
| PHCT 984: | Seminar IV (Research proposal) | 1/semester |
| PHCT 994 | Research/Dissertation 1V | 6/semester |
| **Third year** | | |
| **Semester 1** | | |
| PHCT 985: | Seminar V (Research proposal) | 1/semester |
| PHCT 995 | Research/Dissertation V | 6/semester |
| **Semester 2** | | |
| PHCT 981: | Seminar VI (Research proposal) | 1/semester |
| PHCT 991 | Research/Dissertation V1 | 6/semester__. |

**9.4.4 Ph.D. Pharmaceutical Microbiology**

*Admission Requirements*

Candidates for admission into the PhD Pharm. Microbiologydegree programme are required to have obtained one of the following qualifications:

- M.Sc. (Pharmaceutics)
- M.Sc. (Pharmaceutical Microbiology)
- M.Sc. (Microbiology)
- M.Sc. (Biotechnology)
- M.Sc. (Molecular biology)
- M.Sc. (Immunology)
- M.Sc. (Epidemiology)
- M.Sc. (Food technology)

*Graduation Requirement*

Graduation requirement is same for the PhD Pharmaceutics.

*Course structure*

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Year 1: Semester 1** | | |
| PHCT 981: | Seminar I (Research proposal) | 1/semester |
| PHCT 991 | Research/Dissertation 1 | 6/semester |
| **Semester 2** | | |
| PHCT 982: | SeminarII (Research proposal) | 1/semester |
| PHCT 992 | Research/Dissertation I1 | 6/semester |
| **Year 2: Semester 1** | | |
| PHCT 983: | Seminar III (Research proposal) | 1/semester |
| PHCT 993 | Research/Dissertation III | 6/semester |
| **Semester 2** | | |
| PHCT 984: | Seminar IV (Research proposal) | 1/semester |
| PHCT 994 | Research/Dissertation 1V | 6/semester |
| **Third year** | | |
| **Semester 1** | | |
| PHCT 985: | Seminar V (Research proposal) | 1/semester |

| | | |
|---|---|---|
| PHCT 995 | Research/Dissertation V | 6/semester |

**Semester 2**

| | | |
|---|---|---|
| PHCT 981: | Seminar VI (Research proposal) | 1/semester |
| PHCT 991 | Research/Dissertation V1 | 6/semester __ . |

## 9.5. DEPARTMENT OF PHARMACOGNOSY AND DRUG DEVELOPMENT

There are three post graduate programs in the Department namely:

1. PGD Herbal Medicine
2. M.Sc. Pharmacognosy
3. Ph.D. Pharmacognosy

| **Programme** | **Areas of Specializations** |
|---|---|
| **PGD Herbal Medicine** | Herbal Medicine |
| **MSc. Pharmacognosy** | Phytochemistry |
| | Ethno/traditional Medicine |
| | Economic Pharmacognosy |
| | Molecular Pharmacognosy |
| | Classical Pharmacognosy |
| **Ph.D. Pharmacognosy** | Phytochemistry |
| | Ethno/traditional Medicine |
| | Economic Pharmacognosy |
| | Molecular Pharmacognosy |
| | Classical Pharmacognosy |

### 9.3.1 PGD Herbal Medicine

*Admission Requirement*

The intention of the Diploma is not to produce a clinical herbalist, but to provide a solid foundation in herbal medicine. The completion of the program shall form the basis for registration of professional herbalist. Special target group for PDHM program includes but not limited to graduates in Pharmaceutical Sciences (B. Pharm), MBBS and BSc. in Biological sciences, Agricultural sciences, Chemistry and Biochemistry.

*Graduation Requirement*

Candidate must sit and pass all the courses designed for postgraduate diploma in Herbal Medicine by the Department as listed below and in addition submit a project report to the Department.

*Course Structure*

**First Semester**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCG701 | Taxonomy and Cultivation of Medicinal Plants | Core | 2 |
| PHCG703 | Pharmacognosy and Ethno-medicine | Core | 2 |
| PHCG705 | Herbs and Drugs Action | Core | 2 |
| PHCG707 | Introduction to Pathology | Core | 2 |
| PHCG709 | Herbal Clinical Pharmacy and Therapeutics | Core | 2 |
| | | | |
| | | | |
| PHCG781 | Seminar I | Core | 1/Semester |
| PHCG791 | Project/Research I | Core | 3/Semester |

**Second Semester**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHGC 782 | Seminar II | Core | 1/Semester |
| PHCG 792 | Project/Research II | Core | 3/Semester |
| | | | |

**9.3.2 M.Sc. Pharmacognosy**

*Admission Requirement*

Candidate for M.Sc. program **must** have O/A level requirement for admission into Ahmadu Bello University in addition, candidates **must** have first degrees in either of the following: B. Pharmacy, B.Sc. Chemistry, B.Sc. Biochemistry or B.Sc. Botany with a minimum of second class upper from any recognized University or a $2^{2}$ with an additional qualification of PGD Herbal Medicine.

*Graduation Requirement*

Candidates are eligible to be awarded MSc. Pharmacognosy degree if they satisfy the following criteria

1. Must sit and pass (minimum 50% mark) all the postgraduate courses offered in the Department of Pharmacognosy (see post graduate courses table below)
2. Must sit and pass a course in BIOSTATISTICS offered in any field of biological sciences (Biology, Pharmacology, Medicine, Veterinary Medicine and Agriculture)
3. Non-Pharmacy graduates should undergo some undergraduate courses (listed below)
4. Must have given at-least three seminars presentation one of which must be proposal presentation
5. For candidates to qualify for external examination they**must** have sat and passed an internal oral examination in the Department
6. Must face an external examination as required by the School of Postgraduate Studies
7. Any other requirement for graduation by the University.

*Course Structure*

The following courses are available in the Department of Pharmacognosy and Drug Development for Postgraduate students:

**First Semester (Core)**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCG801 | Traditional Medicine and Medicinal Plants | Core | 4 |
| PHCG803 | Advanced Microscopy and Photomicrography | Core | 2 |
| PHCG805 | Pharmaceutical Necessities of Plant Origin | Core | 2 |
| PHCG807 | Research Methodology in Pharmacognosy | Core | 2 |
| PHCG809 | Evaluation of Crude Drugs and Natural Products | Core | 4 |
| PHCG811 | Molecular Pharmacognosy and Tissue Culture | Core | 4 |
| PHGC 881,883 | Seminar I & III | Core | 1/Semester |
| PHGC 891,893 | Research/Thesis 1 & III | Core | 4/Semester |
| | | | |
| | | | |

**Second Semester(Core)**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCG802 | Advances in Phytochemistry and Development of New Drugs from Plants | Core | 4 |
| PHCG804 | Advanced Chromatographic Techniques | Core | 4 |
| PHCG806 | Comparative Phytochemistry | Core | 4 |
| PHCG808 | Origin and Biogenesis of Natural Drug Products | Core | 4 |
| **XXX** | Biostatistics | Core | 4 |
| PHGC882,884 | Seminar II & IV | Core | 1/Semester |
| PHGC892,894 | Research/Thesis 1I & IV | Core | 4/Semester |

**Electives**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCH 804 | Chemistry of Natural Products | Elective | 4 |
| PHCH 805 | Advanced Pharmaceutical Analysis | Elective | 4 |
| PHCL 818 | Ethnopharmacology | Elective | 2 |
| PHCL 815 | Toxicology | Elective | 4 |
| BCHM 811 | Biotechnology & Genetic Engineering | Elective | 3 |

**Undergraduate Courses (For Non-Pharmacists)**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCG301 | Extraction Processes and Introduction to Separation Techniques | Remedial | 3 |
| PHCG 302 | Phytochemistry of Natural Products | Remedial | 4 |

**9.3.3 Ph.D. Pharmacognosy**

*Admission Requirement*

Candidate for PhD Pharmacognosy**must** have O/A level requirement for admissions into Ahmadu Bello University, a first degrees (B. Pharmacy, B.Sc. Botany, and B.Sc. Chemistry B.Sc. Biochemistry) and a Master degree in Pharmacognosy with a minimum CGPA of 3.50.

*Graduation Requirement*

1. Must have some course work component in their program
2. Must have given at-least three seminars one of which must be proposal presentation
3. For candidates to qualify for external examination they **must** have sat and passed an internal oral examination in the Department
4. Must face an external examination as required by the School of Postgraduate Studies
5. Any other requirement for graduation by the University.

*Course Structure*

**First Semester**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCH 981,983,985,987 | Seminar I, III, V, VII | Core | 1/Semester |
| PHCH 991,993,995,997 | Research/Dissertation I, III, V, VII | Core | 6/Semester |

**Second Semester**

| Course Code | Course Title | Status | Credit Unit |
|---|---|---|---|
| PHCH 982,984,986,988 | Seminar I, III, V, VII | Core | 1/Semester |
| PHCH 992,994,996,998 | Research/Dissertation I, III, V, VII | Core | 6/Semester |

**9.6 DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS**

**Postgraduate Diploma in Pharmacology (PGDPC)**

The philosophy of the Postgraduate Diploma in Pharmacology program is to produce well trained professionals that will be able to provide relevant pharmacological services to the public.

The main aim of the Postgraduate Diploma Program in Pharmacology is to offer suitably qualified students, graduates or their equivalent, that do not have a degree in Pharmacology, an understanding of advanced pharmacological theory and to provide an introduction to pharmacological research. Emphasis is placed on developing skills in experimental design, technical expertise, thinking, analysis and presentation skills that will enable students to consider a carrier in medical research and or training.

*Course Duration*

The postgraduate diploma in Pharmacology is a two semester (one academic session) full time programme as follows:

i) Course work and examination at the end of each semester;
ii) a project to be supervised and approved by the department within the session.

*Admission Requirements*

The admission requirement is any of the following in addition to the Ordinary level papers:

(i) Credit in at least five (5) O level subjects including English Language and Mathematics;
(ii) Minimum of third class degree in Biochemistry, Anatomy, Nursing Sciences, Physiotherapy, Medical Laboratory Science, Chemistry, Animal Health, Animal Production, Biological Sciences and related disciplines;
(iii) HND with at least a credit in Biochemistry, Physiology, and Chemistry, Nursing, Pharmacy Technician etc. and work experience.

*Course Description*

**First Semester**

| | | | |
|---|---|---|---|
| PGDPC 701 | : | Basic Pharmacology | 2 CU |
| PGDPC 703 | : | Autonomic Pharmacology | 2 CU |
| PGDPC 705 | : | Chemotherapy of Parasitic Infection | 3 CU |
| PGDPC 707 | : | Clinical Tropical Toxicology | 2 CU |
| PGDPC 709 | : | Introduction to Physiology | 4 CU |
| PGDPC 711 | : | Traditional Medicine | 3 CU |
| **Total** | | | **16 CU** |

**Second Semester**

| | | | |
|---|---|---|---|
| PGDPC 702 | : | Cardiovascular Pharmacology | 4 CU |
| PGDPC 704 | : | Central Nervous System Pharmacology | 4 CU |
| PGDPC 706 | : | Chemotherapy of Bacterial, Viral and Fungal Infections | 2 CU |
| PGDPC 708 | : | Endocrine Pharmacology | 2 CU |
| PGDPC 710 | : | Systemic Physiology | 3 CU |
| PGDPC 712 | : | Phytochemistry | 3 CU |
| PGDPC 700 | : | Project | 3 CU |
| **Total** | | | **21 CU** |

*Graduation Requirements*

This is in accordance with Ahmadu Bello University School of Postgraduate Studies requirements as follows:

i) Successful completion of all required courses and a project on an approved topic
ii) Candidate must have earned 37 credit units of course work
iii) Must have obtained a minimum of 2.49 Cumulative Grade Points Average (CGPA)

**9.6.2 M.Sc. Pharmacology**

*Admission Requirements*

For the MSc degree programme, candidates should have at least a Second Class Honours degree in Pharmacology or in a related biomedical subject such as Physiology and Biochemistry from a recognized university. Non-pharmacy and non-medical degree graduates in relevant disciplines must have at least a second class lower division or equivalent. Candidates with an MBBS or Pharmacy degree and their equivalents are also eligible. Holders of DVM and other professionals within medicine may also be considered. Candidates with BSc degrees in related fields who have not undertaken full undergraduate pharmacology courses are required to possess a PGD in Pharmacology before they can be admitted or when not mounted, to remedy these deficiencies prior to commencement of PG courses in pharmacology.

*Graduation Requirement*

The requirements are as obtained in the School of Postgraduate Studies Ahmadu Bello University Zaria, requirements for graduation.

i. Successful completion of all required courses, internal assessment and external defense of thesis
ii. Candidate must have earned a minimum of permissible numbers of credits of coursework
iii. Submission of the Graduation Application Form (GAF 10.4) to the School of Postgraduate Studies not later than two weeks after date of certification.
iv. Submission of 8 signed and bound copies of thesis to the School of Postgraduate Studies through the Head of Department for endorsement and distribution to the University Main Library, School of Postgraduate Studies, members of the Supervisory Committee, the Department and the student.

### 9.6.2 Ph.D Pharmacology

*Admission Requirements*

For the PhD programme, candidates should have a Master's degree in Pharmacology or in a related biomedical subject such as Physiology and Biochemistry from a recognized University. Candidates with Physiology or Biochemistry degrees must possess a PGD in Pharmacology. Candidates with Master's Degree in Pharmacology are not normally required to undertake course work. All others are required to undertake course work. Candidates who have not undertaken full undergraduate pharmacology courses are required to remedy these deficiencies prior to commencement of PG courses in Pharmacology.

*Graduation Requirement*

i. Successful completion of all required courses, internal courses, internal assessment and external defense of dissertation.
ii. Candidate must have earned the required number of credit units
iii. Submission of the Graduation Application Form (GAF 10.4) to the School of Postgraduate Studies not later than two weeks after date of certification.
iv. Submission of 8 signed and bound copies of dissertation to the school of Postgraduate Studies through the Head of Department of distribution to the University Main Library, School of Postgraduate Studies, members of Supervisory Committee, the Department and the student.

*Course Structure*

**First Semester Courses**

*Core Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 801 | General Pharmacology | Core | 2 |
| PHCL 813 | Biostatistics | Core | 4 |
| PHCL 803 | ANS Pharmacology | Core | 4 |
| PHCL 811 | Antiparasitic Chemotherapy | Core | 3 |
| PHCL 815 | Toxicology I | Core | 3 |
| PHCL 817 | Biochemical Pharmacology I | Core | 3 |
| PHCL 881 | MSc Seminar | Core | 1/Semester |
| PHCL 891 | MSc Research/Thesis | Core | 2/Semester |
| PHCL 981 | PhD Seminar | Core | 1/Semester |
| PHCL 991 | PhD Research/Dissertation | Core | 6/Semester |

*Core Specialization Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 807 | Endocrinology | Core Spec. Courses | 4 |

*Electives:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 809 | Antibacterial Chemotherapy | Elective | 3 |
| PHCL 811 | Antiviral Chemotherapy | Elective | 2 |

**Second Semester Courses**

*Core Courses*:

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 806 | Advanced Pharmacokinetics | Core | 4 |
| PHCL 808 | Biochemical Pharmacology II | Core | 3 |
| PHCL 818 | Ethno-pharmacology | Core | 4 |
| PHCL 822 | Advanced CNS Pharmacology | Core | 4 |
| PHCL 824 | Laboratory Techniques/Animal Handling | Core | 2 |
| PHCL 826 | Toxicology II | Core | 3 |

*Core Specialized Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 802 | Cardiovascular and Renal Pharmacology | Core Spec. Courses | 4 |
| PHCL 814 | Clinical Pharmacology | Core Spec. Courses | 4 |

*Elective Courses:*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 828 | Antineoplastic Chemotherapy | Elective | 3 |
| PHCL 830 | Clinical Pharmacy | Elective | 4 |
| PHCL 832 | Immunopharmacology | Elective | 4 |

**Third Semester**

*Core Courses*:

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 883 | MSc Seminar | Core | 1 |
| PHCL 893 | MSc Research/Thesis | Core | 4 |
| PHCL 983 | PhD Seminar | Core | 1 |
| PHCL 993 | PhD Research/Dissertation | Core | 6 |

**Fourth Semester**

*Core Courses*

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| PHCL 884 | MSc Seminar | Core | 1 |
| PHCL 894 | MSc Research/Thesis | Core | 4 |
| PHCL 984 | PhD Seminar | Core | 1 |
| PHCL 994 | PhD Research/Dissertation | Core | 6 |

# CHAPTER 10

# FACULTY OF SCIENCE

## 10.1 DEPARTMENT OF BIOCHEMISTRY

### 10.1.1 MSc Biochemistry

*Admission Requirement*

To be considered for admission into the M.Sc. programmes, the applicant must satisfy the following requirements.

i. Applicants must have five (5) O/L credit passes including English language, Mathematics, Biology, Chemistry and Physics.
ii. A first degree in Biochemistry with at least a second class honours of Ahmadu Bello University or
iii. An equivalent degree from another University recognized by Ahmadu Bello University.
iv. At least two favorable letters of recommendation, one of which must be from the applicant's previous academic advisor.

*Graduation Requirements*

a. Course work: For the purpose of the M.Sc. written examination, the courses are organized in course units and are divided into core courses and electives. For the successful completion of the coursework aspect of the M.Sc. programmes a student is required to take and pass all the taught core courses (24 CU) and a minimum of six (6) CU of elective courses.

b. Research: Research for the M. Sc Degree should normally takes 9-12 months to complete. The research shall run concurrently with some credit courses from the second semester of the study

*Course Structure*:

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **First Semester** | | |
| **Core** | | |
| SCI 801 | Management and Entrepreneurship | 2 |
| BCHM 801 | Enzyme Chemistry | 2 |
| BCHM 805 | Advanced Principle of Nutrition | 2 |
| BCHM 807 | Regulatory Mechanisms of Biological Systems (Regulation of Intermediary Metabolism) | 3 |
| BCHM 811 | Biotechnology & Genetic Engineering | 2 |
| BCHM 813 | Medical Biochemistry | 3 |
| BCHM 830 | Technical Paper Writing and Grant Application | 1 |
| BCHM 831 | Experimental techniques in Biochemistry | 2 |
| COMM 810 | Advanced Bio-statistics | 3 |
| BCHM 832 | Biochemistry practical Teaching and Demonstration | 0 |
| BCHM 881 & 883 | Seminar (Colloquium) I & III | 1/Semester |
| BCHM 891 & | Research/Thesis I & III | 4/Semester |

| | | |
|---|---|---|
| 893 | | |
| **Second Semester** | | |
| **Core** | | |
| SCI 802 | ICT and Research Methodology | 2 |
| BCHM 806 | Physical Biochemistry of Macromolecules | 2 |
| BCHM 882 & 884 | Seminar (Colloquium) II & IV | 1/Semester |
| BCHM 892 & 894 | Research/Thesis II & IV | 4/Semester |
| **ELECTIVES** | | |
| BCHM 802 | Thermodynamics and Bioenergetics | 2 |
| BCHM 804 | Chemistry and Function of Biological Membrane | 2 |
| BCHM 812 | Industrial Biochemistry | 2 |
| BCHM 814 | Immunochemistry | 2 |
| NUTR 802 | Nutrition, Agriculture and Gender | 2 |
| NUTR 810 | Nutritional & Environmental Toxicology | 2 |
| BTEC 846 | Bioinformatics | 3 |
| PHCL 808 | Biochemical Pharmacology | 4 |
| PHCL 815 | Toxicology | 4 |
| MICR 809 | Advanced Industrial Microbiology | 4 |
| VMPP 818 | Applied Physiology | 4 |
| VMPH 815 | Introduction to Molecular Genetics | 3 |
| VMSM 847 | Advanced Clinical Oncology | 3 |
| **Third And Fourth Semesters** | | |
| Conclusion of research project, Seminar and write – up of Thesis | | |

Others Electives may be taken from departments such as: Chemical Engineering, Anatomy, Chemistry, Microbiology, Pharmacology etc. subject to approval by the Department. But for M.Sc. programmes, unrestricted electives may not exceed a maximum of 2CU.

**10.1.2 M. Phil/PhD Biochemistry**

*Admission Requirement*

i. Applicants must have five (5) credit passes including English language, Mathematics, Biology, Chemistry and Physics.

ii. An applicant who already holds the M.Sc. degree in Biochemistry may be considered for direct admission into the Ph.D. programme if the applicant's M.Sc. is considered equivalent to that of Ahmadu Bello University's department of Biochemistry and must have scored a minimum CGPA of 4.0/5.0 and Thesis score not less than 60% (B). Candidates that meet these requirements but have not passed any of the core courses in the M.Sc. programme in this department shall be required to register and pass at 'B' grade such courses.

iii. Candidates in the following categories will be required to enroll for the M. Phil. programme and may be allowed to proceed for the Ph.D. programme after successful completion of the M. Phil. programme:

a) A candidate who's CGPA at the Master degree level is less than 4.0/5.0 but not lower than 3.5/5.

b) A candidate who's Master degree programme did not include a thesis component.

c) A candidate who has a Master degree not in Biochemistry but a closely related field.

iv. At least two favorable letters of recommendation, one of which must be from the applicant's previous academic advisor.

NOTE: A candidate who does not meet the requirement for upgrading of M. Phil programme to a Ph.D. shall be awarded the M.Phil. Biochemistry.

*Graduation Requirements*

a. Course work

i. A Ph.D. candidate is expected to register and pass a minimum of 45CU, but not exceeding 60CU (including Seminar and Dissertation). A 'B' grade shall be considered a pass for Ph.D. candidates.
ii. A Ph.D. candidate shall present at least three (3) Seminars.
iii. Ph.D. candidates unable to conclude their study within the stipulated time but have earned a minimum of 40CU of course work (excluding Seminar and Research credits) and have conducted enough research work for a Project/Thesis,shall be awarded M.Phil. Biochemistry

b. Research/Examination

Candidate must demonstrate orally complete mastery of basic theoretical biochemistry as well as successfully defend his/her research dissertation before a panel of internal and external examiners.

*Course Structure*:

| Course Code | Course Title | Credit Units |
|---|---|---|
| BCHM 901 | Computer Appreciation for Research Students | 3 |
| BCHM 903 | Biotechnology | 3 |
| BCHM 905 | Cell Biology and Molecular Evolution | 3 |
| BCHM 907 | Modern Concepts in Cancer and Carcinogenesis | 3 |
| BCHM 909 | Biochemistry of Tropical Parasites and Disease Agents | 3 |
| BCHM 911 | Journal Club | 2 |
| BCHM 981, 983 & 985 | Seminar I ( Proposal Defence), III & V | 1/Semester |
| BCHM 982, 984 & 986 | Seminar II, IV & VI | 1/Semester |
| BCHM 991, 993 & 995 | Research/Dissertation I, III & V | 6/Semester |
| BCHM 992, 994 & 996 | Research/Dissertation II, IV & VI | 6/Semester |

**10.1.3 Postgraduate Diploma in Nutrition (PGDN)**

*Admission Requirements*:

Candidates with the following academic qualifications from recognized institutions may apply for admission into the programme:

a) Applicants must have five (5) O/L credit passes including English language, Mathematics, Biology, Chemistry and Physics.
b) A degree in Agriculture, Biochemistry, Nutrition, Nursing, Medicine, Veterinary Medicine, Food Science, or Food Technology, Home Economics and related disciplines with a minimum of Third Class degree.
c) Professionals in the field of Nutrition who may be HND holders with a minimum of Lower Credit or equivalent in related disciplines.
d) Registered Nurses with post basic qualifications and Community Health Officers with relevant experience in the field of Nutrition.

*Duration:*

a) The Full-Time shall run for a minimum of two (2) semesters and maximum of Three (3) semesters.
b) The Part-Time shall run for a minimum duration of three (3) semesters and maximum of four (4) semesters.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| NUTR 701 | Principles of Nutrition | 2 | Core |
| NUTR 705 | Food Processing, Preservation & Safety | 2 | Core |
| NUTR 707 | Nutrition through the Life Cycle | 2 | Core |

| | | | |
|---|---|---|---|
| NUTR 709 | Nutrition & Disease | 2 | Core |
| NUTR 711 | Management & Entrepreneurship | 2 | Core |
| NUTR 703 | Food Chemistry | 2 | Elective |
| NUTR 715 | Extension & Rural Sociology | 2 | Elective |
| NUTR 713 | Basic statistics & Application to Nutrition | 2 | Elective |
| NUTR 791 | Research Project I | 3 | Core |

**Second Semester**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| NUTR 702 | Research Methods in Nutrition | 2 | Core |
| NUTR 704 | Nutrition & Metabolism | 2 | Core |
| NUTR 706 | Community Nutrition | 2 | Core |
| NUTR 708 | Computer Application in Nutrition | 2 | Core |
| NUTR 712 | Community Management of Acute Malnutrition | 2 | Elective |
| NUTR 792 | Research Project II | 3 | Core |

**Third Semester**

| | | | |
|---|---|---|---|
| NUTR 793 | Research Project III | 3 | Core |

### i10.1.4 Master of Science (M.Sc.) in Nutrition

*Admission Requirements*

Candidates seeking admission for the Master of Science Degree Programme in Nutrition must have any of the following academic qualifications from recognized institutions:

a) Applicants must have five (5) O/L credit passes including English language, Mathematics, Biology, Chemistry and Physics.

b) Bachelor's degree in Agriculture, Biochemistry, Dietetics, Nutrition, Nursing, Medicine, Veterinary Medicine, Food Science, Food Technology, Home Economics, Microbiology, and related disciplines with a minimum of Second Class degree.

c) HND Credit plus PGDN at a minimum of Credit level, in addition to satisfying University matriculation requirements.

*Requirements for Graduation*

The course shall be evaluated by course work and research through Examination and thesis. To successfully complete course work a student is required to pass all the core courses (33CU) and a minimum of 6CU electives.

To be awarded the Master of Science degree in Nutrition, a candidate must have fulfilled the following conditions:

a) Passed a minimum of 38 Credit Unit.

b) Carried out a research in area of nutrition and submitted an acceptable thesis. Candidate must successfully defend his/her Thesis.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| SCI 801 | Management Entrepreneurship | 2 | Core |
| NUTR 801 | Macronutrients Metabolism, Deficiencies & Control | 3 | Core |
| NUTR 803 | Micronutrients Metabolism, Deficiencies & Control | 2 | Core |
| NUTR 805 | Geriatric Nutrition and Social Welfare | 2 | Core |

| | | | |
|---|---|---|---|
| NUTR 807 | Maternal, Child and Adolescent Nutrition | 2 | Core |
| NUTR 809 | Nutritional Disorders | 2 | Core |
| NUTR 811 | Community and Public Health Nutrition | 2 | Core |
| NUTR 813 | Instrumentation and Techniques in Food and Nutrition | 2 | Core |
| NUTR 815 | Nutritional Epidemiology | 2 | Core |
| NUTR 881 | Seminar I | 1 | Core |
| NUTR 891 | Research/Thesis 1 | 4 | Core |

**Second Semester**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| SCI 802 | ICT & Research Methodology | 2 | Core |
| NUTR 802 | Nutrition, Agriculture & Gender | 2 | Core |
| NUTR 816 | Supervised Field Work/ Internship | 2 | Core |
| NUTR 883 | Seminar presentation | 2 | Core |
| COMM 810 | Advanced Biostatistics | 3 | Core |
| NUTR 804 | Food Composition Databases & Biodiversity | 2 | Elective |
| NUTR 806 | Nutrition Communication, Counseling & Advocacy | 2 | Elective |
| NUTR 808 | Nutrition and Exercise | 2 | Elective |
| NUTR 810 | Nutritional Genomics, Evolution & Environment | 2 | Elective |
| NUTR 812 | Nutritional & Environmental Toxicology | 2 | Elective |
| NUTR 814 | Food and Nutrition in Emergency | 2 | Elective |
| NUTR 882 | Seminar II | 1 | Core |
| NUTR 892 | Research/Thesis II | 4 | Core |

**Third And Fourth Semesters**

| | | | |
|---|---|---|---|
| NUTR 893 & 894 | Nutrition Thesis III & IV | 4 | Core |
| NUTR 883 & 884 | Seminar III & IV | 1 | Core |

**10.1.5 PGD (Forensic Biotechnology)**

*Admission Requirement*

To be considered for admission into the course, the applicant must satisfy the following requirements:

i. A first degree in Biochemistry and other Natural Sciences, Agriculture, Veterinary, Medical and Pharmaceutical Sciences, and Chemical Engineering with at least a third class honours of Ahmadu Bello University or HND with upper credit or
ii. An equivalent degree from another University recognized by Ahmadu Bello University.
iii. At least twofavorable letters of recommendation, oneof which **must be** from the applicant's previous academic advisor.

- Forty percent (40%) of the admission quota will be reserved for female applicants.
- Similarly, thirty percent (30%) of the admission quota will be reserved for non-Nigerians.

*Graduation Requirements*

The programme shall be run using a combination of approaches namely, taught courses (lectures), laboratory exercises, seminars, assignments and independent research activities. The research component may run concurrently with the second semester of the programme.

For successful completion of the coursework aspect of the PGD Forensic programme, a student is required to:

- attain at least 75% attendance of lectures and laboratory practical works
- register for and pass all the taught core courses (20Credit Units) and a minimum of 2 Credit units of electives.
- obtain a minimum of "C" grade in all the core courses
- present a written non-thesis, supervised project
- present at least one seminar per semester

*Course structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **First Semester** | | |
| **Core** | | |
| SCI 801 | Management and Entrepreneurship | 2 |
| FBTE 701 | Basic Biochemistry | 2 |
| FBTE 703 | Introduction to Biotechnology | 2 |
| FBTE 705 | DNA and Forensic Technology | 2 |
| FBTE 707 | Genomics / Proteomics | 2 |
| FBTE 709 | Principles of Forensic Sciences | 2 |
| FBTE 711 | Legal Issues in Forensics | 1 |
| FBTE 713 | Forensic Biotechnology Applications I | 2 |
| FBTE 715 | Bioethics and Biosafety | 2 |
| FBTE 791 | Research/Project 1 | 3 |
| **Electives** | | 0 |
| FBTE7017 | Forensic Toxicology | 1 |
| FBTE7019 | Forensic Pathology | 1 |
| **Second Semester** | | |
| **Core** | | |
| SCI 802 | ICT and Research Methodology | 2 |
| FBTE702 | Bioinformatics | 2 |
| FBTE704 | Forensic Biotechnology Applications II | 2 |
| FBTE706 | Genotyping and Hereditary | 2 |
| FBTE708 | Laboratory Operating Standards and Quality Assurance | 1 |
| FBTE710 | Introduction to Research Techniques and Data Acquisition | 1 |
| FBTE712 | Seminars | 2 |
| FBTE 792 | Research/Project 1I | 3 |
| **Electives** | | 0 |
| FBTE714 | Forensic Archeology | 1 |
| FBTE716 | Forensic Entomology | 1 |
| | | |
| **Third And Fourth Semesters** | | |
| FBTE793 & 794 | Research/Project 1II & IV | 3 |

**10.1.6. M.Sc. (Biotechnology)**

*Admission Requirement*

To be considered for admission into the M.Sc. courses, the applicant must satisfy the following requirement:

1. A first degree in Biochemistry, any other Natural Sciences, Agriculture or Human and Veterinary Medicine, or Pharmaceutical Sciences of Ahmadu Bello University with at least a second class honours, or
2. An equivalent degree from another University recognized by Ahmadu Bello University.
3. At least two favorable letters of recommendation, one of which must be from the applicant's previous academic adviser.

*Graduation Requirement*

a. Course work

Courses are taken from the course structure given above for twelve months with a minimum pass of C. Only twenty percent of course credit load is allowed from electives from the department or other relevant programmes in the university.

b. Research

Research for the MSc Degree programmes normally takes 12-18 months to complete. The research may run concurrently with some credit courses from the second semester of the study or after the first one year of course work.

c. Seminar / Examination
For the purpose of the M.Sc., written examination, the courses are organized in course units and are divided into core courses and electives. For successful completion of the coursework aspect of the MSc. programme a student is required to take and pass all the taught core courses (30CU) and a minimum of 9CU of electives.

*Course structure*

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **First Semester** | | |
| **Core** | | |
| BTEC841 | General Biochemistry | 3 |
| BTEC843 | General Microbiology | 2 |
| BTEC845 | Molecular Biology & Recombinant DNA Technology | 3 |
| BTEC847 | Biosafety | 2 |
| BTEC849 | Cell And Tissue Culture | 2 |
| BTEC851 | Biotechnology Laboratory I | 2 |
| BTEC853 | Recent Advances In Biotechnology | 2 |
| BTEC 881 | Seminar I | 1 |
| BTEC 891 | Research/Thesis 1 | 4 |
| **Second Semester** | | |
| **Core** | | |
| BTEC842 | Bioethics | 2 |
| BTEC844 | Bioentrepreneurship & Intellectual Property | 2 |
| BTEC846 | Bioinformatics | 3 |
| BTEC848 | Bioengineering | 2 |
| BTEC850 | Research Methodology And Biostatistics | 2 |
| BTEC852 | Biotechnology Laboratory I | 2 |
| BTEC892 | Research/Thesis II | 4 |
| BTEC 882 | Seminar II | 1 |
| **Electives** | | |
| | BTEC854 to BCHM858 Applied Biotechnology | |
| | **Choose one according to specialization**<br>BTEC854 Agricultural Biotechnology<br>BTEC856 Medical &Pharmaceutical Biotechnology<br>BTEC858 Industrial & Environmental Biotechnology | |
| | | |
| **Third And Fourth Semesters** | | |
| BTEC 893 & 894 | Research/Thesis 1II & IV | 4/Semester |

**10.1.7 Ph.D. (Biotechnology)**

*Admission Requirement*

An applicant who already holds the M.Sc. degree in Biotechnology may be considered for admission into the PhD programme if the applicant's MSc is in relevant area and is considered equivalent to that of Ahmadu Bello University. PhD candidates with their MSc from Ahmadu Bello University and other Universities should have:

i. Scored a minimum average of 'B' or 60% in his M.Sc. exams.
ii. Candidates with average less than 'B' or 60% shall be required to take all core MSc. Courses in Biotechnology.
Iii Candidate with average greater than 60% shall be required to take the core MSc courses in Biotechnology that they have not taken or passed previously.

*Graduation Requirements*

a. Course work

PhD candidates are expected to take BTEC901, 903, 911 and at least any other from the list prescribed 900L courses.

b. Research/Examination

Candidate must demonstrate orally complete mastery of basic theoretical biochemistry as well as successfully defend his/her dissertation research. In addition, candidate must have passed at least 18CU of prescribed 800L courses.

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Semester I, III, V, VII** | | |
| BTEC901 | Molecular Evolution | 3 |
| BTEC903 | Modern Concepts in Cancer and Carcinogenesis | 3 |
| BTEC905 | Biochemistry of Tropical Parasites and Disease Agents | 3 |
| BTEC907 | Journal Club | 2 |
| BTEC 981, 983, 985, 987 | Seminar I, III, V & VII | 1/Semester |
| BTEC 991, 993, 995, 997 | Research/Dissertation I, III, V & VII | 6/Semester |
| **Semester II, IV, VI, VIII** | | |
| BTEC 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| BTEC 992, 994, 996 & 998 | Research/Dissertation II, IV, VI & VIII | 6/Semester |
| | | |

**DEPARTMENT OF BIOLOGY**

**10.2.1 Postgraduate Diploma in Fisheries (PGDF)**

*Admission Requirement*

(I) A degree in Biology, Botany, Zoology, Fisheries, Microbiology, Biochemistry, Agriculture, Human Medicine, Veterinary Medicine, Geography and allied disciplines.

(II) Holders of Higher National Diploma (HND) (Upper Credit) in Fisheries, Environmental Biology, Biology, Food Science, Science Laboratory Technology, Microbiology, Water resources and Allied fields.

*Graduation Requirements*

A) Course Work

To qualify for the PGDF, a candidates must in addition to fulfilling other Ahmadu Bello University Postgraduate School requirements, obtain a minimum of 36 Credit Units of Coursework.

B) Postgraduate Diploma Research Project:Every PGDF student must carry out an approved research to collect data for a PGDF Project. Each PGDF student's research project must be supervised by a senior academic who must not be below the rank of Lecturer I.

C) Seminars and Examinations:

i) Seminars: During the First Semester of his/her PGDF programme every PGDF student must present a seminar on selected/approved topical issue on Fisheries.

ii) Course Work Examinations: These consist of written examinations in courses for which the student has registered. The examinations are usually administered at the end of each semester. During each course, oral or written continuous assessment of courses may be conducted in addition to assessments of field/laboratory practical exercises. The weighing of the final score for each course shall be 60% for the final exam and 40% for the continuous assessment.

iii) Project Score:This consists of external moderation of an Internally defended Project.

*Course Structure*
Below is a detailed list of courses (with their contents) and list of academic staff available to participate in

| Course Code | | Course Title | Credit Units |
|---|---|---|---|
| **CORE COURSES** | | | |
| **First Semester** | | | |
| ➢ FISH701 | - | Fish Biology/Ichthyology | 3 |
| ➢ FISH703 | - | Hydrobiology/Limnology | 3 |
| ➢ FISH705 | - | Fish Pond Construction and Management | 2 |
| ➢ FISH707 | - | Principles of Aquaculture | 2 |
| ➢ FISH709 | - | Fish Cropping Techniques | 2 |
| ➢ FISH 711 | - | Research Methods and Statistics | 2 |
| ➢ FISH713 | - | Fish Seminar | 2 |
| | | Elective | 2 |
| **18** | | | |
| **Second Semester** | | | |
| ➢ FISH 700 | - | Research Project and Orientation | 6 |
| ➢ FISH 702 | - | Fish Feed Formulation and Production | 2 |
| ➢ FISH 704 | - | Fingerling Production and Management | 2 |
| ➢ FISH 706 | - | Fish Health/Disease and Management | 2 |
| ➢ FISH 708 | - | Fisheries Economics and Extension | 2 |
| ➢ FISH 710 | - | Fish Processing and Preservation | 2 |
| | | Electives | 2 |
| | | | 18 |
| | | **Grand Total** | **36** |
| **Electives** | | | |
| ➢ FISH 712 | - | Fisheries Policy, Law and Regulations | 2 |
| ➢ FISH 714 | - | Integrated Fish Farming and Project Management | 2 |
| ➢ FISH 715 | - | Fish Health Management | 2 |
| ➢ FISH 716 | - | Aquaculture Economics | 2 |
| ➢ FISH717 | - | Fish Nutrition | 2 |
| ➢ BIOL755 | - | Environmental Pollution | 2 |
| ➢ BIOL764 | - | Principles of Environmental Impact Assessment | 2 |

NB: A minimum of thirty eight (36) credit units is required for graduation. Students are expected to take a minimum of two (2) credit units as elective per semester.

### 10.2.2 M.Sc. Programmes

*Admission requirements into the M.Sc. Programmes*

a) *M.Sc. Biology* – Minimum of *B.Sc.* or *B.Tech.* (Second Class, Lower Division) in Biology, Botany or Zoology, or any relevant applied Biology area.
b) *M.Sc. Botany* – Minimum of *B.Sc.* or *B.Tech.* (Second Class, Lower Division) in Biology or Botany or any relevant applied Biology area.
c) *M.Sc. Fisheries* – Minimum of *B.Sc.* or *B.Tech.* (Second Class, Lower Division) in Biology, Botany, Zoology or any relevant applied Biology area.
d) *M.Sc. Zoology* – Minimum of B.Sc. or B. Tech. (Second Class, Lower Division) in Biology or Zoology, or any relevant applied Biology area.

*Graduation Requirements*

a. Course Work

To qualify for the M.Sc. degree, a candidate must in addition to fulfilling other Ahmadu Bello University Postgraduate School requirements, obtain a minimum of 50 Credit Units as prescribed under the degree in view.

a. During a student's M.Sc. programme, he/she may be required to take specific undergraduate courses to address identified deficiencies in his/her undergraduate training, *vis a vis* his/her envisaged area of postgraduate research. Such courses may be taken from within or outside the department.

b. M.Sc. Research Project

Every M.Sc. student must carry out an approved research to collect data for a M.Sc. thesis. Each M.Sc. student's research project must be supervised by a committee of at least two senior academics, of which at least one must be a Ph.D. holder and/or of Senior Lecturer rank.

c. Examinations

i) Seminars

During the First Semester of his/her M.Sc. programme, every M.Sc. student must present a Research Proposal for his/her M.Sc. Thesis at a departmental Seminar organized for this purpose. Every M.Sc. student is also required to present the findings of his/her M.Sc. research at a departmental seminar, prior to the Oral Examination.

ii) Course Work Examinations

These consist of written examinations in courses for which the student has registered. The examinations are usually administered at the end of each semester. During each course, oral or written continuous assessment of courses may be conducted in addition to assessments of field/laboratory practical exercises. The weighting of the final score for each course shall be 60% for the final exam and 40% for the continuous assessment.

iii) Oral Examination (Viva Voce)

This will be conducted by a renowned scholar from another institution, approved by the University Senate. The examination shall be based mainly on the candidate's M.Sc. Thesis and the general area of the research conducted by the student.

*Course Structure*

**A) M.Sc. Biology**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Core Courses** | | |
| BIOL 801 | Research Orientation and Computer Applications | 2 |
| BIOL 802 | Advanced Biostatistics | 2 |
| BIOL 881- 884 | Seminar (1cu/semester) | 3-6 |
| BIOL 891-894 | Research/Thesis (2cu/semester) | 6-10 |
| In addition to the above-listed courses, each student must choose relevant courses amounting to 6 Credit Units from those listed below. | ……6 | |
| **Total Core** | | **42** |
| ***Electives:* (8 credit units, other than those selected from below as core)** | | 8 |
| BIOL 814 | Advanced Cell Biology and Cytogenetics | 2 |
| BIOL 815 | Cell and Tissue Culture | 2 |
| BIOL 816 | Advanced Hydrobiology | 2 |
| BIOL 817 | Modern Taxonomic Methods | 2 |
| BIOL 818 | Biological Control Methods | 2 |
| BIOL 819 | Advanced Cell Physiology | 2 |
| BIOL829 | Molecular Biology | 2 |

| | | |
|---|---|---|
| BIOL 839 | Advanced Plant and Animal Ecology | 2 |
| ZOOL837 | Environmental Adaptation in Animals | 2 |
| OTHERS | Relevant courses from other Units of the Faculty and/ or the University …….. | 2-4 |

Credit unit requirements:

| | | |
|---|---|---|
| | Core Courses | 12 |
| | Research and Thesis | 10 |
| | Electives | 8 |
| **Grand Total** | | **30** |

*Admission Requirements*
The requisite entry requirement into any of the department's Ph.D. degree programmes is a Master of Science degree in a relevant biological field of specialization from ABU or other recognized universities with a minimum CGPA of 3.50.

*Graduation Requirements*
All the Ph.D. degree programmes of the department are by Research Project and Dissertation. However, a candidate's Supervisory Committee may prescribe relevant courses for the candidate to audit, in areas that will improve and/or strengthen the candidate's capacity to conduct a better research and produce a better dissertation. The expected duration of a Ph.D. programme is three years; two years of research and one year dissertation write-up and defense.

Examinations
Examinations in any of the Ph.D. programmes of the department are in three parts, namely:

**a)** Seminars: This consists of three seminars, namely:
i) Research Project Proposal Seminar (usually before commencement of research work)
ii) Research Project Progress Report Seminar (usually after the first year of research work), and
iii) Final Seminar (after completion of the research work and write-up of draft Ph.D. dissertation).
All the three seminars are subject to assessment by a panel of internal examiners. Each Ph.D. candidate is required to attend and participate in at least 75% of all departmental seminars that hold during his/her period of studentship. Failure to achieve this may result in delays in presenting a student for the Oral Examination.

**b)** Oral examination **(*Viva voce*)**: This will be conducted by a renowned scholar from another institution, approved by the University Senate. The examination shall be based mainly on the candidate's PhD Dissertation as well as the general area of the research conducted by the student.

**DEPARTMENT OF BOTANY**

**B) M.Sc. Botany**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| ***Core Courses*** | | |
| BIOL801 | Research Orientation and Computer Application | 2 |
| BIOL802 | Advanced Biostatistics | 2 |
| BOTY820 | Advanced Bryology | 2 |
| BOTY823 | Advanced Genetics | 2 |
| BOTY825 | Comparative Plant Morphology and Anatomy of vascular plants | 2 |
| BOTY826 | Photosynthesis and Translocation | 2 |
| BOTY828 | Plant Growth and Development | 2 |
| BOTY829 | Taxonomy of Angiosperms | 2 |
| BIOL 839 | Advanced Plant and Animal Ecology | 2 |
| BIOL 881-884 | Seminar (1cu/semester) | 3-6 |
| BIOL 891-894 | Research/Thesis (2cu/semester) | 6-10 |

In addition to the above-listed core courses, each student must choose relevant courses amounting to 12 Credit Units from those listed below.

| | | | |
|---|---|---|---|
| ***Electives:* (8 credit units, other than those selected from below as core)** | | 8 | |
| BOTY821 | Advanced Mycology | | 2 |
| BOTY822 | Fungal Cytogenetics | 2 | |
| BOTY824 | Advanced Phycology | | 2 |
| BOTY827 | Nutrient Metabolism in Plants | | 2 |
| BIOL 814 | Advanced Cell Biology and Cytogenetics | 2 | |
| BIOL 817 | Modern Taxonomic Methods | | 2 |
| BIOL 819 | Advanced Cell Physiology | | 2 |
| BIOL829 | Molecular Biology | | 2 |
| OTHERS - | Courses from other programmes of the Department and/or Faculty and/or University | | 2-4 |

*Admission Requirements*
The requisite entry requirement into any of the department's Ph.D. degree programmes is a Master of Science degree in a relevant biological field of specialization from ABU or other recognized universities with a minimum CGPA of 3.50.

*Graduation Requirements*
All the Ph.D. degree programmes of the department are by Research Project and Dissertation. However, a candidate's Supervisory Committee may prescribe relevant courses for the candidate to audit, in areas that will improve and/or strengthen the candidate's capacity to conduct a better research and produce a better dissertation. The expected duration of a Ph.D. programme is three years; two years of research and one year dissertation write-up and defense.

Examinations
Examinations in any of the Ph.D. programmes of the department are in three parts, namely:

**a)** Seminars: This consists of three seminars, namely:
i) Research Project Proposal Seminar (usually before commencement of research work)
ii) Research Project Progress Report Seminar (usually after the first year of research work), and
iii) Final Seminar (after completion of the research work and write-up of draft Ph.D. dissertation).
All the three seminars are subject to assessment by a panel of internal examiners. Each Ph.D. candidate is required to attend and participate in at least 75% of all departmental seminars that hold during his/her period of studentship. Failure to achieve this may result in delays in presenting a student for the Oral Examination.

**b)** Oral examination **(*Viva voce*)**: This will be conducted by a renowned scholar from another institution, approved by the University Senate. The examination shall be based mainly on the candidate's PhD Dissertation as well as the general area of the research conducted by the student.

## 10.7 DEPARTMENT OF MICROBIOLOGY

**Area of Specialization**:

1. Microbial Biotechnology

2. Medical Microbiology

**Option**s:

i) Pathogenic Bacteriology
ii) Virology
iii) Immunology and Immunobiology
iv) Medical Parasitology

v) Medical Mycology
vi) Public Health Microbiology

3. Applied Microbiology:
**Options**:
i) Industrial Microbiology
ii) Food Microbiology
iii) Petroleum Microbiology
iv) Pharmaceutical Microbiology
v) Fermentation Technology
vi) Applied Mycology

4. Environmental Microbiology:
**Options**:
i) Soil Microbiology
ii) Aquatic Microbiology
iii) Bioremediation and Biotransformation
iv) Environmental Biotechnology
v) Air Microbiology and Pollution

**10.7.1 MSc Microbiology**
*Admission Requirements:*
The admission requirement for MSc in Microbiology is a first or second class honours degree in Microbiology from Ahmadu Bello University or any other recognized University.All MSc students are required to take postgraduate courses.

All candidates admitted into postgraduate programmes in the Department must have a minimum of credit pass at O' level in Biology, Chemistry, Physics, Mathematics and English language.

*Graduation Requirements*
(a). Course Work: All M.Sc. and Ph.D. candidates are expected to do course work and must earned a minimum of 24 and 54 credit units respectively before graduation

(b). Research:All M.Sc. and Ph.D. candidates are expected to carry out research work and produce a thesis and dissertation respectively before graduation.

**(**c). Seminar/Examination: M.Sc. candidates are expected to present at least 3 seminars while Ph.D. candidateswill present 4 seminars. At the end of their research work they will be subjected to internal and external examinations to defend their theses and dissertations respectively.

*Course Structure*
**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **General Courses** | | |
| 1. SCI 801: | Management and Entrepreneurship | 2 Credit Units |
| 2. MICR 881, 883: | Seminar I & III | 1CU/Semester |
| 3. MICR 891, 893: | Research/Thesis I & III | 4CU/Semester |
| **Core Courses** | | |
| 1. MICR 801: | Principles of Fermentation Technology | 3 Credit Units |
| 2. MICR 803: | Advanced Environmental Microbiology | 3 Credit Units |
| **Elective Courses** | | |
| 1. MICR 805: | Advanced Bacteriology | 3 Credit Units |

| | | | |
|---|---|---|---|
| 2. | MICR 807: | Advanced Mycology | 3 Credit Units |
| 3. | MICR 809: | Advanced Public Health Microbiology | 3 Credit Units |
| 4. | MICR 811: | Plant Virology | 3 Credit Units |
| 5. | MICR 813: | Advanced Food Microbiology | 3 Credit Units |
| 6. | MICR 815: | Advanced Industrial Microbiology | 3 Credit Units |
| 7. | MICR 817: | Immunology and Immunobiology | 3 Credit Units |

**Semester 2:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **General Courses** | | |
| 1. | SCI 802:ICT and Research Methodology | 2 Credit Units |
| 2. | MICR 882, 884: Seminar II & IV | 1CU/Semester |
| 3. | MICR 892, 894: Research/Thesis II & IV | 4CU/Semester |
| **Core Courses** | | |
| 1. MICR 802: | Advanced Microbial Physiology and Metabolism | 3 Credit Units |
| 2. MICR 804: | Advanced Microbial Genetics and Genomics | 3 Credit Units |
| 3. BIOL 802: | Biostatistics | 3 Credit Units |
| **Elective Courses** | | |
| 1. MICR 806: | Advanced Virology | 3 Credit Units |
| 2. MICR 808: | Advanced Microbial Ecology | 3 Credit Units |
| 3. MICR 810: | Advanced Pathogenic Microbiology | 3 Credit Units |
| 4. MICR 812: | Antimicrobial Agents and Chemotherapy | 3 Credit Units |
| 5. MICR 814: | Advanced Soil Microbiology | 3 Credit Units |
| 6. MICR 816: | Advanced Petroleum Microbiology | 3 Credit Units |
| 7. MICR 818: | Advanced Medical Parasitology | 3 Credit Units |

**10.7.2 Doctor of Philosophy (PhD) in Microbiology**

*Admission Requirements:*

The admission requirement for PhD in Microbiology is MSc degree in Microbiology with at least a CGPA of 3.50 from Ahmadu Bello University or any other recognized University. The PhD programme is by research and course work where necessary.

All candidates admitted into postgraduate programmes in the Department must have a minimum of credit pass at O' level in Biology, Chemistry, Physics, Mathematics and English language.

*Graduation Requirements*

(a). Course Work: All Ph.D. candidates are expected to do course work and must earn a minimum of 54 credit units before graduation

(b). Research:All Ph.D. candidates are expected to carry out research work and produce a dissertation before graduation.

(c). Seminar/Examination: Ph.D. candidates will present 4 seminars. At the end of their research work they will be subjected to internal and external examinations to defend their dissertations.

**10.7.3 Postgraduate Diploma In Microbiology (PGDM)**

*Admission Requirements*

(i) B.Sc. degree with a 3rd Class honours in Microbiology and relatedcourses such as B.Sc. (Hons) in Biology, Botany, Zoology, Biochemistry, FoodScience and Technology etc.

(ii) HND with at least credit level passes in Microbiology and the related courseslisted in (i) above.

*Graduation Requirement:*

(a). Course work:All PGDM candidates are expected to do all the prescribed courses and pass them before graduation.

(b). Research: All PGDM candidates are expected to carry out research work and produce a project and end of the research.

(c). Seminar/Examination**:** All PGDM candidates shall present 2 seminars and successfully defend their projects before graduation

*Course Structure*

**Semester 1:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| 1. PGDM 771: | Introductory General Microbiology I | 3 Credit Units |
| 2. PGDM 773: | General Laboratory Techniques | 3 Credit Units |
| 3. PGDM 775: | Introductory Microbial Physiology | 2 Credit Units |
| 4. PGDM 777: | Introductory Microbial Genetic | 2 Credit Units |
| 5. PGDM 779: | Principle of Sterilization and Disinfection | 2 Credit Units |
| 6. PGDM 701: | Biostatistics | 2 Credit Units |
| 7. PGDM 781: | Seminar | 1CU/Semester |
| 8. PGDM 791: | Research/Project | 3CU/Semester |
| **Semester 2:** | | |
| 1. PGDM 772: | Introductory General Microbiology II | 2 Credit Units |
| 2. PGDM 774: | Applied Microbiology I (Food/Industrial/ Environmental Option) | 3 Credit Units |
| 3. PGDM 776: | Applied Microbiology II (Medical/Env. Option) | 3 Credit Units |
| 4. PGDM 778: | Introductory Microbial Biotechnology | 1 Credit Units |
| 5. PGDM 782: | Seminar | 1CU/Semester |
| 6. PGDM 792: | Research/Project | 3CU/Semester |

**DEPARTMENT OF ZOOLOGY**

**MSc. Zoology**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| BIOL 801 | Research Orientation and Computer Applications | 2 |
| BIOL 802 | Advanced Biostatistics | 2 |
| BIOL 881 | M. Sc Seminar 1 | 2 |
| BIOL 882 | M.Sc. Seminar 2 | 2 |
| BIOL 983 | Ph.D. Seminar 1 | 2 |
| BIOL 984 | Ph.D. Seminar 2 | 2 |
| **CoreSpecialisation Courses** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 831 | Advanced Vertebrate Physiology | 2 |
| ZOOL 832 | Advanced techniques in Histology | 2 |
| ZOOL 834 | Parasites and parasitism | 2 |

| | | |
|---|---|---|
| ZOOL 835 | Insect Taxonomy, Evolution and Ecology | 2 |
| ZOOL 836 | Biology and control of Insects of Medical Importance | 2 |
| ZOOL 837 | Environmental Adaptation in Animals | 2 |
| BIOL 829 | Molecular Biology | 2 |
| **Animal Ecology** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 865 | Forest and Savanna ecology | 2 |
| ZOOL 817 | Techniques in Animal Ecology | 2 |
| ZOOL 818 | Ecosystems Pollution Ecology | 2 |
| ZOOL 819 | Physiological Animal Ecology | 2 |
| ZOOL 847 | Ecology of Aquatic Environment | 2 |
| ZOOL 844 | Biogeography | 2 |
| ZOOL 863 | Landscape Restoration Ecology | 2 |
| ZOOL 854 | Environmental Audit and Impact Assessment | 2 |
| **Entomology** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 811 | Insect Taxonomy | 2 |
| ZOOL 813 | Insect Physiology & Biochemistry | 2 |
| ZOOL 814 | Stored Products Entomology | 2 |
| ZOOL 815 | Medical and Veterinary Entomology | 2 |
| ZOOL 816 | Management of Harmful Insects | 2 |
| **Parasitology** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 823 | Basic Principles and Concepts in parasitology | 2 |
| ZOOL 824 | Transmission and Diseases of protozoan Parasites | 2 |
| ZOOL 825 | Physiology and Biochemistry of Parasites | 2 |
| ZOOL 826 | Parasite Immunology | 2 |
| ZOOL 827 | Transmission and Diseases of Helminth Parasites | 2 |
| ZOOL 828 | Epidemiology and control of Parasitic Diseases in the Tropics | 2 |
| | | |
| | | |
| **Wild Life Conservation and Management** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 805 | Ecotoxicology | 2 |
| ZOOL 806 | Ecology of Tropical Ecosystems | 2 |
| ZOOL 807 | Wild Life Conservation and Management | 2 |
| ZOOL 808 | Environmental Impact Assessment | 2 |
| ZOOL 809 | Behavioural Ecology | 2 |
| ZOOL 810 | Ecology of Management of Tropical Wetlands | 2 |
| **Electives** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| BIOL 818 | Biological Control Methods | ? |
| BIOL 813 | Biological Instrumentation and Special techniques | ? |
| ZOOL 845 | Fisheries Management | ? |

**MSc. Zoology**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| BIOL 801 | Research Orientation and Computer Applications | 2 |
| BIOL 802 | Advanced Biostatistics | 2 |
| BIOL 881 | M.Sc. Seminar 1 | 2 |
| BIOL 882 | M.Sc. Seminar 2 | 2 |
| BIOL 983 | Ph.D. Seminar 1 | 2 |

| | | |
|---|---|---|
| BIOL 984 | Ph.D. Seminar 2 | 2 |
| **Core Specialisation Courses** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 831 | Advanced Vertebrate Physiology | 2 |
| ZOOL 832 | Advanced techniques in Histology | 2 |
| ZOOL 834 | Parasites and parasitism | 2 |
| ZOOL 835 | Insect Taxonomy, Evolution and Ecology | 2 |
| ZOOL 836 | Biology and control of Insects of Medical Importance | 2 |
| ZOOL 837 | Environmental Adaptation in Animals | 2 |
| BIOL 829 | Molecular Biology | 2 |
| **Animal Ecology** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 865 | Forest and Savanna ecology | 2 |
| ZOOL 817 | Techniques in Animal Ecology | 2 |
| ZOOL 818 | Ecosystems Pollution Ecology | 2 |
| ZOOL 819 | Physiological Animal Ecology | 2 |
| ZOOL 847 | Ecology of Aquatic Environment | 2 |
| ZOOL 844 | Biogeography | 2 |
| ZOOL 863 | Landscape Restoration Ecology | 2 |
| ZOOL 854 | Environmental Audit and Impact Assessment | 2 |
| **Entomology** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 811 | Insect Taxonomy | 2 |
| ZOOL 813 | Insect Physiology & Biochemistry | 2 |
| ZOOL 814 | Stored Products Entomology | 2 |
| ZOOL 815 | Medical and Veterinary Entomology | 2 |
| ZOOL 816 | Management of Harmful Insects | 2 |
| **Parasitology** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 823 | Basic Principles and Concepts in parasitology | 2 |
| ZOOL 824 | Transmission and Diseases of protozoan Parasites | 2 |
| ZOOL 825 | Physiology and Biochemistry of Parasites | 2 |
| ZOOL 826 | Parasite Immunology | 2 |
| ZOOL 827 | Transmission and Diseases of Helminth Parasites | 2 |
| ZOOL 828 | Epidemiology and control of Parasitic Diseases in the Tropics | 2 |
| | | |
| | | |
| **Wild Life Conservation and Management** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| ZOOL 805 | Ecotoxicology | 2 |
| ZOOL 806 | Ecology of Tropical Ecosystems | 2 |
| ZOOL 807 | Wild Life Conservation and Management | 2 |
| ZOOL 808 | Environmental Impact Assessment | 2 |
| ZOOL 809 | Behavioural Ecology | 2 |
| ZOOL 810 | Ecology of Management of Tropical Wetlands | 2 |
| **Electives** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| BIOL 818 | Biological Control Methods | ? |
| BIOL 813 | Biological Instrumentation and Special techniques | ? |
| ZOOL 845 | Fisheries Management | ? |

*Admission Requirements*

The requisite entry requirement into any of the department's Ph.D. degree programmes is a Master of Science degree in a relevant biological field of specialization from ABU or other recognized universities with a minimum CGPA of 3.50.

*Graduation Requirements*

All the Ph.D. degree programmes of the department are by Research Project and Dissertation. However, a candidate's Supervisory Committee may prescribe relevant courses for the candidate to audit, in areas that will improve and/or strengthen the candidate's capacity to conduct a better research and produce a better dissertation. The expected duration of a Ph.D. programme is three years; two years of research and one year dissertation write-up and defense.

Examinations

Examinations in any of the Ph.D. programmes of the department are in three parts, namely:

**a)** Seminars: This consists of three seminars, namely:
   i) Research Project Proposal Seminar (usually before commencement of research work)
   ii) Research Project Progress Report Seminar (usually after the first year of research work), and
   iii) Final Seminar (after completion of the research work and write-up of draft Ph.D. dissertation).
   All the three seminars are subject to assessment by a panel of internal examiners. Each Ph.D. candidate is required to attend and participate in at least 75% of all departmental seminars that hold during his/her period of studentship. Failure to achieve this may result in delays in presenting a student for the Oral Examination.

**b)** Oral examination **(*Viva voce*)**: This will be conducted by a renowned scholar from another institution, approved by the University Senate. The examination shall be based mainly on the candidate's PhD Dissertation as well as the general area of the research conducted by the student.

**FACULTY OF LIFE SCIENCES**

**10.3. DEPARTMENT OF CHEMISTRY**

The Department offers Full time M.Sc. programmes as well as full time and part time Ph.D programmes in the following areas:

i. Analytical Chemistry
ii. Inorganic Chemistry
iii. Organic Chemistry
iv. Physical Chemistry
v. Polymer Science and Technology

*Admission Requirements for Post Graduate Diploma Courses*

(1) Candidates applying for Postgraduate Diploma in Chemistry must have the following requirements:

(a) Minimum of credit in the following five O' level subjects: Chemistry, Biology, Physics, Mathematics and English language.

(b) At least a **Third Class Honours** degree in Chemistry, Chemical Engineering, Biochemistry, Chemistry Education and Textile Science and Technology from Ahmadu Bello University or any other recognized University.

Or

Higher National Diploma (HND) in Chemistry with a minimum of **Upper Credit** from any recognized Polytechnic or Tertiary institution.

*Graduation Requirement*

Students must earn all the forty two credit units.

**10.3.1 and 10.3.2: PGD (Analytical and Environmental Chemistry)**

*Course Structure*

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **First Semester** | **Environmental Chemistry** | |
| CHEM 721 | Introduction to the Environment | 4 |
| CHEM 723 | Environmental Resources and Problems | 4 |
| CHEM 725 | Environmental Devastation and Conservation | 4 |
| CHEM 727 | Environmental Pollution and Pollution Control | 4 |
| CHEM 729 | Analytical Techniques and Instrumentation | 4 |
| CHEM 791 | Research Project I | 3 |
| | | **Total = 23** |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 722 | Atmospheric Chemistry and Air Pollution | 2 |
| CHEM 724 | Sampling for Environment Analysis | 4 |
| CHEM 726 | Environmental Housekeeping Practices in Industry | 4 |
| CHEM 728 | Linkages for Environmental Control | 4 |
| CHEM 782 | Seminar | 2 |
| CHEM 792 | Research Project II | 3 |
| | | **Total = 19** |
| **Analytical Chemistry** | | |
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 731 | Classical Methods | 4 |
| CHEM 733 | Electrochemical Methods | 4 |
| CHEM 735 | Separation Techniques in Analytical Chemistry | 4 |

| | | |
|---|---|---|
| CHEM 737 | Computerization | 4 |
| CHEM 739 | Analytical Instrumentation | 3 |
| CHEM 791 | Research Project I | 3 |
| | | **Total = 22** |
| **Second semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 732 | Spectroscopy | 4 |
| CHEM 734 | Thermal Methods | 4 |
| CHEM 736 | Basic Statistics | 4 |
| CHEM 738 | The Analytical Laboratory | 3 |
| CHEM 782 | Seminar | 2 |
| CHEM 792 | Research Project II | 3 |
| | | **Total = 20** |

**Admission Requirements for M.Sc. and Ph.D.**

1. Candidates applying for Master's degree in Inorganic, Organic, Analytical, Physical Chemistry and Polymer Science and Technology, must have the following requirements:

(a) Minimum of credit in the following five O' level subjects: Chemistry, Biology, Physics, Mathematics and English language;

(b) A B.Sc. degree in Chemistry with a minimum CGPA of 3.00 from Ahmadu Bello University or any other recognized University;

(c) In addition to 1a and 1b the candidates shall be required to pass a qualifying examination.

2. Candidates applying for Ph.D. in Inorganic, Organic, Analytical, Physical Chemistry and Polymer Science and Technology must have a Master's degree in Chemistry with a minimum CGPA of 3.50 from Ahmadu Bello University or any other reorganized University. In addition the candidate must satisfy (1a) above.

*Graduation Requirements*

M.Sc. Students are expected to earn the minimum number of credit units at the end of the course work to graduate including presentation of at least two seminars and submission of a thesis. The numbers of credit units that must be earned differ for the different areas of specialisation but must be between 30 to 45 units. This is as follows:

| **Area** | **Course work** | **Thesis** | **Total** |
|---|---|---|---|
| M.Sc. Physical Chemistry | 31 | 12 | 43 |
| M.Sc. Inorganic Chemistry | 30 | 12 | 42 |
| M.Sc. Organic Chemistry | 28 | 12 | 40 |
| M.Sc. Analytical Chemistry | 30 | 12 | 42 |
| M.Sc. Polymer Science & Technology | 31 | 12 | 43 |

The credit units for the thesis is made up of scores from:

a. Supervisor's Continuous Assessment of research project
b. Presentation of Progress Report (Seminar)
c. Thesis write-up and External Examination (Oral defence)

It must also be noted that before a candidate is presented for external examination, that candidate must have passed all the stipulated course work.

### 10.3.3 M.Sc. Physical Chemistry

| **CORE COURSES** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Credit Units** |
| **First Semester** | | |
| CHEM 801 | Statistics | 2 |
| CHEM 803 | Information Technology | 2 |

| | | |
|---|---|---|
| CHEM 805 | Chemical Informatics | 2 |
| CHEM 811 | Quantum Chemistry | 3 |
| CHEM 813 | Chemical Dynamics | 3 |
| CHEM 815 | Classical Chemical Thermodynamics | 3 |
| CHEM 817 | Group Theory and Symmetry | 2 |
| CHEM 819 | Statistical Thermodynamics | 2 |
| CHEM 881 | Seminar I | 1 |
| CHEM 891& 893 | Research/Thesis I & III | 4/Semester |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 812 | Computational Chemistry | 3 |
| CHEM 814 | Computational Quantum Chemistry | 3 |
| CHEM 816 | Seminar in Computational Chemistry | 3 |
| CHEM 818 | Physical Chemistry Seminar | 1 |
| CHEM 874 | Molecular Structure | 2 |
| CHEM 882 | Seminar II | 1 |
| CHEM 892& 894 | Research/Thesis II & IV | 4/Semester |
| **ELECTIVES** | | |
| CHEM 807 | Advance Topics in Quantum Chemistry | 2 |
| CHEM 804 | Molecular Spectroscopy | 2 |
| CHEM 808 | Advance Topics in Statistical Thermodynamics | 2 |
| CHEM 879 | Introduction to Molecular Modelling | 2 |

**10.3.4 M.Sc. Inorganic Chemistry**

| **CORE COURSES** | | |
|---|---|---|
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 801 | Statistics | 2 |
| CHEM 803 | Information Technology | 2 |
| CHEM 805 | Chemical Informatics | 2 |
| CHEM 823 | Advanced Inorganic Reaction Mechanism | 2 |
| CHEM 825 | Metal ions in Solution I | 2 |
| CHEM 827 | Chemistry of Main Group Elements | 2 |
| CHEM 829 | Advanced Organometallic Chemistry | 2 |
| CHEM 881& 883 | Seminar I & III | 1 |
| CHEM 891& 893 | Research/Thesis I & III | 4/Semester |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 822 | Molecular Structure by Diffraction Method | 2 |
| CHEM 824 | Coordination Compounds | 2 |
| CHEM 826 | Metal ions in Solution II | 2 |
| CHEM 828 | Chemistry of Transition Metals | 2 |
| CHEM 813 | Chemical Dynamics | 3 |
| CHEM 882& 884 | Seminar II & IV | 1 |
| CHEM 892& 894 | Research/Thesis II & IV | 4 |
| **ELECTIVES** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 815 | Classical Chemical Thermodynamic | 3 |
| CHEM 820 | Kinetic Methods | 2 |
| CHEM 821 | Applied Organometallic Chemistry | 2 |
| CHEM 845 | Laboratory Organization and Management | 2 |
| CHEM 846 | Separation Techniques | 2 |

| | | |
|---|---|---|
| CHEM 849 | Spectroscopic Analysis | 2 |
| CHEM 885 | Catalysis | 2 |

- Students are expected to pick 4 credit units of electives across the first and second semester from the list of courses above

**10.3.5 M.Sc. Organic Chemistry**

| **CORE COURSES** | | |
|---|---|---|
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 801 | Statistics | 2 |
| CHEM 803 | Information Technology | 2 |
| CHEM 805 | Chemical Informatics | 2 |
| **CHEM 830** | **Stereochemistry** | **2** |
| **CHEM 833** | **Natural Product/Medicinal Chemistry** | **2** |
| **CHEM 835** | **Organic Synthetic Methods** | **2** |
| **CHEM 837** | **Applied Organic Spectroscopy for Structural Elucidation and Elemental Analysis** | **2** |
| CHEM 843 | Laboratory Purification Techniques | 2 |
| CHEM 845 | Laboratory Organisation and Management | 2 |
| CHEM881& 883 | Seminar I& III | 1 |
| CHEM 891&893 | Research/Thesis I& III | 4 |
| | | |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| **CHEM 832** | **Industrial Organic Processes** | **2** |
| **CHEM 834** | **Heterocyclic Chemistry** | **2** |
| **CHEM 836** | **Organic Functional Group Analysis** | **2** |
| CHEM882& 884 | Seminar II& IV | 1 |
| CHEM 892&894 | Research/Thesis II & IV | 4/Semester |
| **ELECTIVES** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| **CHEM 831** | **Physical Organic Chemistry** | **2** |
| **CHEM 838** | **Organic Sulphur Chemistry** | **2** |
| **CHEM 839** | **Photochemistry** | **2** |
| **CHEM 841** | Environmental Pollution Analysis | **2** |
| CHEM 857 | Synthesis of Polymer | **2** |

- Students will pick additional 4 credit units in second semester as electives from any of the listed courses to give a total of 28 credit units for the session.

**10.3.6 M.Sc. Analytical Chemistry**

| **Core Courses** | | |
|---|---|---|
| **Course code** | **Course title** | **Credit units** |
| **First semester** | | |
| CHEM 801 | Statistics | 2 |
| CHEM 805 | Chemical informatics | 2 |
| CHEM 803 | Information Technology | 2 |
| CHEM 840 | Classical Analysis | 3 |
| CHEM 841 | Electrochemical Analysis | 2 |
| CHEM 843 | Laboratory Purification Techniques | 2 |
| CHEM 845 | Laboratory Organisation and Management | 2 |

| | | |
|---|---|---|
| CHEM 849 | Spectroscopic Analysis | 2 |
| CHEM 881&883 | Seminar I&III | 1/Semester |
| CHEM 891&893 | Research/Thesis I& III | 4/Semester |
| **Second semester** | | |
| **Course code** | **Course title** | **Credit units** |
| CHEM 836 | Organic Functional Group Analysis | 2 |
| CHEM 842 | Automatic Analysis | 2 |
| CHEM 844 | Water Analysis | 2 |
| CHEM 846 | Separation Techniques | 3 |
| CHEM 848 | Chemometrics and Experimental Design | 2 |
| CHEM 882&884 | Seminar II& IV | 1/Semester |
| CHEM 892&894 | Research/Thesis II & IV | 4/Semester |
| | **Electives** | |
| **Course code** | **Course title** | **Credit units** |
| CHEM 815 | Classical Chemical Thermodynamics | 3 |
| CHEM 825 | Metal ions in Solution I | 2 |
| CHEM 824 | Coordination Compounds | 2 |
| CHEM 827 | Chemistry of Main Group Elements | 2 |
| **CHEM 847** | Environmental Pollution Analysis | 2 |

- Students will pick at least additional 2 credit units as electives in the second semester from any of the listed courses to give a total of 30 credit units for the session.

### 10.3.7 M.Sc. Polymer Science and Technology

| **CORE COURSES** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Course Units** |
| **First Semester** | | |
| CHEM 851 | Introduction to Macromolecules | 2 |
| CHEM 853 | End-use Properties and Applications of Commercial Polymers | 3 |
| CHEM 855 | Physical and Thermal Properties of Polymers | 3 |
| CHEM 503 | Production Management | 2 |
| CHEM 409 | Financial Management | 2 |
| CHEM 881&883 | Seminar I&III | 1/Semester |
| CHEM 891&893 | Research/Thesis I& III | 4/Semester |
| | | |
| **Second Semester** | | |
| CHEM 852 | Molecular and Supermolecular Structure of Polymers | 3 |
| CHEM 854 | Polymer Processing | 3 |
| CHEM 856 | Introduction to Solid State Properties of Polymer | 3 |
| CHEM 882&884 | Seminar II & IV | 1/Semester |
| CHEM 892&894 | Research/Thesis II & IV | 4/Semester |
| | | |
| **Modules (Polymer Science Option)** | | |
| **Course Code** | **Course Title** | **Course Units** |
| **First Semester** | | |
| CHEM 857 | Polymer Synthesis | 2 |
| CHEM 858 | Polymer Characterization Techniques | 2 |
| CHEM 859 | Polymer Reactions | 2 |
| CHEM 860 | Thermodynamics of Polymer Solution | 2 |
| CHEM 861 | Theory of the Structure of Polymer Solutions | 2 |
| CHEM 864 | NMR and IR of Polymers | 2 |
| CHEM 870 | Electrical, Magnetic and Optical Properties of Polymers | 2 |

| | | |
|---|---|---|
| CHEM 875 | Polymer Synthesis Laboratory | 2 |
| CHEM 877 | Polymer Characterization Laboratory | 2 |
| | **Modules (Polymer Technology option)** | |
| **Course Code** | **Course Title** | **Course Units** |
| CHEM 865 | Polymer Reactions Engineering | 2 |
| CHEM 866 | Design of Polymer Processing Equipment | 2 |
| CHEM 867 | Control Theory | 2 |
| CHEM 868 | Further Polymer Processing | 2 |
| CHEM 869 | Polymer Rheology | 2 |
| CHEM 871 | Adhesives, Films and Coatings | 2 |
| CHEM 872 | Modifications of Polymers | 2 |
| CHEM 874 | Polymer Processing Laboratory | 2 |
| CHEM 876 | Advanced Polymer Processing Laboratory | 2 |
| CHEM 878 | Workshop Practice | 2 |
| | **General Electives** | |
| **Course Code** | **Course Title** | **Course Units** |
| CHEM862 | Natural Polymers | 2 |
| CHEM 863 | Inorganic Polymers | 2 |
| CHEM 873 | Special Techniques | 2 |
| CHEM 879 | Polymer Testing Laboratory | 2 |

Additional eight credit units may be taken from electives depending on the area a student wants to specialise on and any two from general electives or all ten units from student's area specialisation.

### 10.3.8 Ph.D. Chemistry

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| | **Semester I, III, V, VII** | |
| CHEM 981, 983, 985, 987 | Seminar I, III, V & VII | 1/Semester |
| CHEM 991, 993, 995, 997 | Research/Dissertation I, III, V & VII | 6/Semester |
| | **Semester II, IV, VI, VIII** | |
| CHEM 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| CHEM 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| CHEM 992, 994, 996 & 998 | Research/Dissertation II, IV, VI & VIII | 6/Semester |
| | | |

**M.Sc. Environmental Chemistry**

Environmental Chemistry is a scientific discipline that utilizes the principles and methods of chemistry for understanding the sources, reactions, transport, effects, and fates of chemical species in the atmospheric, terrestrial and aquatic environments. As a much focused branch of chemistry, it recognizes that chemical compounds, both natural and anthropogenic, have notable effects on natural processes and biological systems. It is important, therefore, to use the procedures and findings of chemistry in order to understand these effects and keep them under control for the benefit of humanity. The M.Sc. Environmental Chemistry Programme at Ahmadu Bello University, Zaria, is an interdisciplinary programme that requires a sound background in chemistry and in many other disciplines. Therefore, students will have the opportunity of receiving instructions from different departments of the University, in addition to advice from industry-based experts. The ultimate goal is to equip the students with the necessary knowledge and skills required to make them proficient in problem solving and enable them to operate effectively and efficiently in the increasingly complex society that has insatiable demands for the services of such professionals. Professional outlook for graduates of this programme is good; they can work in a variety of places, including oil companies, academia, environmental protection agencies and international non-governmental organizations.

The duration for the M.Sc. Environmental Chemistry is twenty four (24) calendar months. Course work will run for two semesters and Laboratory work/ thesis writing for another two semesters.

*Admission Requirements*
The admission requirements are as follows:

(i) Five O' Level credit passes in Chemistry, English Language, Mathematics, Physics and any other science subject.
(ii) A B.Sc. degree in Chemistry, Biochemistry, Environmental Science or Environmental Engineering with minimum CGPA of 3.00 from Ahmadu Bello University or any other recognized University.
(iii) Third class degree/HND with Postgraduate Diploma in Analytical Chemistry, Environmental Chemistry, Environmental Science, Biochemistry, Environmental Engineering from Ahmadu Bello University or any other recognized University/Polytechnic.

*Course Structure*

| **CORE COURSES** | | |
|---|---|---|
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 801 | Statistics | 2 |
| CHEM 803 | ICT & Research Methodology | 2 |
| CHEM 847 | Environmental Pollution Analysis | 2 |
| CHEM 883 | Advanced Environmental Chemistry | 3 |
| GEEM 803 | Environmental Policy & Management | 3 |
| GEOL 823 | Advanced Applied Geochemistry | 2 |
| CHEM 850 | Health, Safety & Environment | 2 |
| | | **Total =16** |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 800 | Research Project | 12 |
| CHEM 846 | Separation Techniques | 3 |
| CHEM 848 | Chemometrics & Experimental Design | 2 |
| GEEM 804 | Field Techniques for Environmental Managers | 3 |
| | | **Total = 20** |

*Requirements for Graduation*
The award of M.Sc. Environmental Chemistry shall be conditional upon successful completion of course work and writing an acceptable thesis.

**Note:** A student on the M.Sc. Environmental Chemistry programme is required to earn a total of 36 credit units from course work and research thesis.

**Master of Science (M.Sc.) Petroleum Chemistry**
Petroleum chemistry broadly refers to the study of the chemical composition, properties and refining processes of crude petroleum and petroleum products including the analysis and applications or utilization of chemical compounds derived directly or indirectly from the crude processing with the resulting implications to the ecosystem. The proposed Master of Science programme in Petroleum Chemistry is aimed at the understanding of broader theoretical concepts and basic techniques of petroleum refining procedures, transport and storage. It includes practical applications of laboratory techniques for analysis of petroleum, petrochemicals and environmental analysis, including detection and remediation of oil spills. The program design recognized the unique skill requirement of the petroleum and petrochemical and allied industries. Hence the teaching style/assessment would involve case studies relating to problem solving, paper reviews, group assignments and individual oral presentations. Furthermore, two areas of research priority are proposed: (i) Petrochemicals analysis and (ii) Environmental remediation studies. These would involve laboratory techniques for quality and safety of crude or refined products by testing for density, API (American Petroleum Institute) gravity, octane number, cetane number, flash point, viscosity, pour point, ignition point among others. The environmental remediation studies would involve oil spill, detection, remediation/biosurfactants and environmental sample collection and analysis using modern techniques. These would

prepare candidates for the capability required by a Masters' Degree holder in Petroleum Chemistry for employment by Nigerian and international companies including consultants of the petroleum and petrochemical cluster of the Nigerian economy.

The duration for the M.Sc. Petroleum Chemistry is twenty four (24) calendar months. Course work will run for two semesters and Laboratory work/ thesis writing for another two semesters.

*Admission Requirements*
The admission requirements are as follows:

(i) Five O' Level credit passes in Chemistry, English Language, Mathematics, Physics and any other science subject.
(ii) At least a second class lower degree in Chemistry, Chemical Engineering, Environment Science, Geology, from Ahmadu Bello University or any other recognized University.
(iii) Third class degree/HND with Postgraduate Diploma in Analytical Chemistry, Environmental Chemistry, Chemical Engineering, Environment Science, Geology, from Ahmadu Bello University or any other recognized University/Polytechnic.

*Course Structure*

| **CORE COURSES** | | |
|---|---|---|
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 801 | Statistics | 2 |
| CHEM 803 | ICT and Research Methodology | 2 |
| CHEM 815 | Spectroscopic Analysis | 3 |
| CHEM 845 | Laboratory Organization and Management | 2 |
| CHPC 811 | Petrochemistry (I) | 3 |
| CHEM 853 | End Use Properties and Application of Polymers | 3 |
| | | **Total=15** |
| | | |
| | | |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEM 800 | Research Project | 12 |
| CHEM 850 | Health, Safety and Environment (HSE) | 2 |
| CHPC 822 | Fluid Analysis | 2 |
| CHPC 812 | Petrochemistry (II) | 3 |
| GEOL 832 | Petroleum Engineering, Prospect Management and Economics | 2 |
| | | **Total=21** |

*Requirements for Graduation*

The award of M.Sc. Petroleum Chemistry shall be conditional upon successful completion of course work and writing an acceptable thesis.
**Note:** A student on the M.Sc. Petroleum Chemistry programme is required to earn a total of 36 credit units from course work and research thesis.

**Master in Petroleum Chemistry Programme**

***Introduction***
Master in Petroleum Chemistry is a professional program for high level manpower in the petroleum and allied industries. Because the workflow in oil and gas industries depends largely on continuous human capacity development the Master in Petroleum Chemistry is designed to provide the needed capacity building through a well

packaged result-oriented training to strengthen the basic knowledge of Petroleum Chemistry for improved awareness and professional efficiency in the rapidly changing and competitive oil and gas cluster of the Nigerian economy.
The duration for the Master in Petroleum Chemistry is twelve (12) calendar months. Course work will run for two semesters including project writing.

*Admission Requirements*
The admission requirements are as follows:

(i) Five O' Level credit passes in Chemistry, English Language, Mathematics, Physics and any other science subject.
(ii) At least a second class lower degree in Chemistry, Chemical Engineering, Geology, or Science Laboratory Technology and related courses from Ahmadu Bello University or any other recognized University.
(iii) Third class degree/HND with Postgraduate Diploma in Analytical Chemistry, Environmental Chemistry, Chemical Engineering, Geology, Science Laboratory Technology and related courses from Ahmadu Bello University or any other recognized University/Polytechnic.
(iv) Candidates working in the Petroleum and allied industries will have added advantage

*Course Structure*

| **First Semester** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Credit Units** |
| CHPC 803 | Research Methodology | 2 |
| CHPC 805 | Laboratory Management | 2 |
| CHPC 807 | Petroleum Industry | 3 |
| CHPC 809 | Quality Assurance in Petroleum Industry | 2 |
| CHPC 813 | Fundamentals of Oil and Gas | 2 |
| CHEC 801 | Environmental Quality Assessment | 3 |
| | | **Total=14** |
| | | |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHPC 800 | Project Report | 6 |
| CHEC 804 | Health, Safety and Environment (HSE) | 2 |
| CHPC 802 | Biofuels | 2 |
| CHEC 802 | Environmental Management | 3 |
| CHPC 804 | Petroleum Prospecting | 2 |
| | | **Total=15** |

**Master in Environmental Chemistry Programme**

***Introduction***
The degree in view is the Master in Environmental Chemistry by course work without thesis. This professional programme is for high level manpower in the environmental monitoring and regulatory agencies, and allied industries. The programme is designed to provide the needed capacity building through a well packaged result-oriented training to strengthen the basic knowledge of Environmental Chemistry for improved awareness and professional efficiency in the rapidly changing global environment.
The duration for the Master in Environmental Chemistry is twelve (12) calendar months. Course work will run for two semesters including project writing.

*Admission Requirements*
The admission requirements are as follows:

(i) Five O' Level credit passes in Chemistry, English Language, Mathematics, Physics and any other science subject.

(ii) At least a second class lower degree in Chemistry, Environmental Science, Biochemistry, Chemical Engineering, Geology, or Science Laboratory Technology and related courses from Ahmadu Bello University or any other recognized University.

(iii) Third class degree/HND with Postgraduate Diploma in Analytical Chemistry, Environmental Chemistry, Environmental Science, Biochemistry, Chemical Engineering, Geology, Science Laboratory Technology and related courses from Ahmadu Bello University or any other recognized University/Polytechnic.

(iv) Candidates working in the Environment and allied industries will have added advantage

*Course Structure*

| | | |
|---|---|---|
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEC 801 | Environmental Quality Assessment | 3 |
| CHEC 803 | Environmental Chemistry | 3 |
| CHEC 805 | Pollution Analysis | 2 |
| CHEC 807 | Sampling Techniques & Analysis | 3 |
| CHEC 809 | Data Processing in Chemistry | 2 |
| CHPC 803 | Research Methodology | 2 |
| | | **Total =15** |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CHEC 800 | Project Report | 6 |
| CHEC 802 | Environmental Management | 3 |
| CHEC 804 | Health, Safety & Environment | 2 |
| CHEC 806 | Separation Methods | 3 |
| | | **Total = 14** |

*Requirements For Graduation*

The award of Masters in Environmental Chemistry shall be conditional upon successful completion of course work and writing an acceptable project.

**Note:** A student on the Masters in Environmental Chemistry programme is required to earn a total of 29 credit units from course work and project writing.

## DEPARTMENT OF COMPUTER SCIENCE

Postgraduate Diploma in Computer science (PGDCS)
M. Sc. Computer Science
Ph. D. Computer Science

### 10.6.1 Postgraduate Diploma in Computer Science (PGDCS)

*Admission Requirements*

For admission into the PGDCS program, applicants must possess the following qualifications:

1 All candidates must have five credit passes including English, Mathematics and two other relevant science subjects at 'O' Level;

2. Candidates with Bachelor's degree from an approved university must obtain a minimum of third class degree in the relevant science discipline;

3 Holders of HND in relevant programmes from approved institutions with a minimum of Lower Credit may also be considered for admission;

4 A Professional Postgraduate Diploma in Computer Science, with at least a merit pass, from a recognized institution. Candidates in this category will either take the second semester in the full-time program or two semesters of the second year in the part-time option.

*Graduation Requirement*
To graduate, a student must successfully complete forty six (46) Credit Units including a Project, as shown in the Degree Plan. However, if required, changes can be introduced from time to time, by the academic committee constituted to conduct the program.

*Course Structure*
**One-year (Full Time) Plan**

| 1st Semester | | | 2nd Semester | | |
|---|---|---|---|---|---|
| **Course Code** | **Title** | **CR** | **Course Code** | **Title** | **CR** |
| PGCS 701 | Introduction to Computing | 2 | PGCS 702 | Data Structures and Algorithm Analysis | 3 |
| PGCS 703 | Systems Analysis and Design | 2 | PGCS 704 | Software Engineering | 3 |
| PGCS 705 | Computer Organization | 3 | PGCS 706 | Computer Architecture | 3 |
| PGCS 707 | Web Applications Engineering I | 3 | PGCS 708 | Web Application Engineering II | 2 |
| PGCS 709 | Object Oriented Programming I | 3 | PGCS 710 | Object Oriented Programming II | 3 |
| PGCS 711 | Database Management Systems | 3 | PGCS 712 | Operating Systems | 3 |
| PGCS 713 | Discrete Structures | 3 | PGCS 74X | Elective II | 2 |
| PGCS 715 | Data Communications and Networks | 3 | PGCS 791 &792 | Project I 7 II | 3/Semester |
| PGCS 74X | Elective I | 2 | - | - | - |
| | Sub-total | 24 | | Sub-total | 22 |
| Total credit units: 46 | | | | | |

**Two-year (Part Time) Plan**
**First Year**

| 1st Semester | | | 2nd Semester | | |
|---|---|---|---|---|---|
| **Course Code** | **Title** | **CR** | **Course Code** | **Title** | **CR** |
| PGCS 721 | Introduction to Computing | 2 | PGCS 722 | Database Management Systems | 3 |
| PGCS 723 | Systems Analysis and Design | 2 | PGCS 724 | Discrete Structures | 3 |
| PGCS 725 | Web Applications Engineering I | 3 | PGCS 726 | Web Application Engineering II | 2 |
| PGCS 727 | Object Oriented Programming I | 3 | PGCS 728 | Object Oriented Programming II | 3 |
| PGCS 729 | Computer Organization | 3 | - | - | - |
| | Sub-total | 13 | | Sub-total | 11 |
| Total credit units: 24 | | | | | |

**Second Year**

| 1st Semester | | | 2nd Semester | | |
|---|---|---|---|---|---|
| **Course Code** | **Title** | **CR** | **Course Code** | **Title** | **CR** |
| PGCS 731 | Data Communications and Networks | 3 | PGCS 732 | Computer Architecture | 3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PGCS 733 | Data Structures and Algorithm Analysis | | | 3 | | PGCS 734 | Operating Systems | | | 3 |
| PGCS 735 | Software Engineering | | | 3 | | PGCS 74X | Elective II | | | 2 |
| PGCS 74X | Elective I | | | 2 | | PGCS 792 | Project | | | 3 |
| | Sub-total | | | 11 | | | Sub-total | | | 11 |
| Total credit units: 22 | | | | | | | | | | |

**Electives**

| Course Code | Title | CR |
|---|---|---|
| PGCS 741 | Introduction to Artificial Intelligence | 2 |
| PGCS 742 | Introduction to Human Computer Interaction | 2 |
| PGCS 743 | Simulation Methodology | 2 |
| PGCS 744 | Professional and Social Aspects of Computing | 2 |

**LT** stands for Lecture Credit Units, **LB** stands for Laboratory Credit Units and **CR** stands for the total credit units (i.e. CR = LT + LB). Note also, as is the standard, a three-hour lab is equivalent to one credit unit (i.e. 3LB = 1LT).

### 10.6.3 Master of Science (M.Sc.) Computer Science

*Admission Requirements*

1. All candidates must have five credit passes including English, Mathematics and two other relevant science subjects at 'O' Level;
2. Candidates with Bachelor's degree from an approved university must obtain a minimum of second class lower division with CGPA of at least 3.0/5.0 in Computer Science, Mathematics with Computer Science, and Statistics with Computer Science or equivalent from any recognized University;
3. Candidates with a third class Bachelor's degree or HND (with a minimum of Lower Credit) plus a Postgraduate Diploma (with CGPA of at least 3.0/5.0) in Computer Science of Ahmadu Bello University or its equivalent from approved institutions may also be considered for admission.
4. Candidates with a third class or second class lower (with a CGPA less than 3.0/5.0) Bachelor's degree plus a minimum of five years post-graduation experience in Computer Science or equivalent from approved institutions may also be considered for admission.

*Graduation Requirements*

To graduate, a student must earn 42 credit units, out of which 36 credit units are core courses and 6 credit units elective courses. The thesis is approved subject to its evaluation by an external examiner appointed by the university and also after an oral examination by a board of internal/external examiners. However, all these rules and regulations stated above are subject to change from time to time by the University.

*Courses*

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| COSC 801 | Operating Systems | 3 |
| COSC 803 | Advanced Computer Algorithms | 3 |
| COSC 805 | Computer Communications and Networks | 3 |
| COSC 807 | Modeling and Simulation of Computing | 3 |
| COSC 809 | Advanced Database Systems | 3 |
| SCI 801 | Management and Entrepreneurship | 2 |
| COSC 881 | Seminar | 1 |
| COSC 891 | ResearchThesis | 3 |

**2nd Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| COSC 802 | Software Engineering Methodologies | 3 |
| COSC 804 | Advanced Computer Architecture | 3 |
| COSC 806 | Design and Implementation of Programming Languages | 3 |

| | | |
|---|---|---|
| COSC 808 | Data Security and Encryption | 3 |
| COSC 812 | Application Development for Internet Based Services | 3 |
| SCI 802 | ICT and Research Methodology | 2 |
| COSC 882 | Seminar | 1 |
| COSC 892 | ResearchThesis | 3 |

### 10.6.4 Doctor of Philosophy (Ph.D.) Computer Science

*Admission Requirements*

To be eligible for admission into Ph.D. degree Programme the candidate must have obtained M.Sc. Degree in Computer Science with a research thesis component (not project) or its equivalent from a recognized university. Candidates with a CGPA score of less than 3.5 are not eligible for Ph.D. admission. Where a Ph.D. applicant is judged to be deficient or has a professional master's degree, he/she may be considered for an M.Phil. admission. Applicants who earn a minimum CGPA of a 3.5 at the end of the M. Phil. programme shall automatically proceed with the Ph.D. programme.

*Graduation Requirements*

The Ph.D. Programme is by research only and subject to fulfilling the requirements as may be laid down by the university from time to time. The full time candidates may submit the Ph.D. Dissertation after a minimum period of three years from the date of registration and the part time candidate may do so after five years. The Dissertation is approved subject to its evaluation by an external examiner appointed by the university and also after an oral examination by a panel of Internal/External examiners.

*Research Areas*

1. Machine Intelligence
2. Database Systems
3. Software Engineering
4. Network and Distributed Systems
5. Computer Architecture
6. Logic Programming
7. Computer Graphics
8. Memory Management
9. Information Technology Security

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Semester I, III, V, VII** | | |
| COSC 981, 983, 985, 987 | Seminar I, III, V & VII | 1/Semester |
| COSC 991, 993, 995, 997 | Research/Dissertation I, III, V & VII | 6/Semester |
| **Semester II, IV, VI, VIII** | | |
| COSC 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| COSC 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| COSC 992, 994, 996 & 998 | Research/Dissertation II, IV, VI & VIII | 6/Semester |
| | | |

## 10.4 DEPARTMENT OF GEOGRAPHY

**Postgraduate Programmes:**

(i) Ph.D Geography
(ii) Ph.D Rural Development
(iii) Ph.D Climate Change Economics, Policy and Innovation
(iv) M.Phil Disaster Management
(v) M.Phil Climate Change Economics, Policy and Innovation
(vi) M.Sc. Geography
(vii) M.Sc. Rural Development
(viii) M.Sc. Remote Sensing and Geographic Information Systems
(ix) M.Sc. Population and Demographic Studies
(x) M.Sc. Transport Management
(x) M.Sc. Environmental Management
(xi) M.Sc. Climate Change Economics, Policy and Innovation
(xii) Postgraduate Diploma in Geographic Information Systems
(xiii) Postgraduate Diploma in Rural Development
(xiv) Postgraduate Diploma in Disaster Risk Management
(xv) Postgraduate Diploma inClimate Change Economics, Policy and Innovation
(xvi) Masters in Disaster Risk Management And Development Studies

### 10.4.1 Ph. D Geography

*Admission Requirement*

The following shall be eligible to seek registration for the degree of the Doctor of Philosophy:-

(i).Candidate who hold the Master's degree in Geography of Ahmadu Bello University, or any other recognized university with a minimum CGPA of 3.50.

(ii).Graduates of other recognized universities who hold higher degrees in Geography considered by the relevant Faculty Board, Postgraduate school and Senate to be equivalent to (i) above.

Candidates for the degree of Ph. D shall be examined by:

(i). Written examination on course work in areas designated as core for Ph. D Candidates by the Department (see section 4.2).

(ii). Presentation of at least two seminars.

(iii). An examination on the dissertation before a panel of external and internal examiners based on the material of the dissertation as well as the general knowledge of the field in which the subject for research has been chosen.

Other conditions concerning the Ph.D. programme in the Department are specified in the Postgraduate School regulations.

### 10.4.2 Ph. D. Rural Development

*Admission Requirement*

The following shall be eligible to seek registration for the degree of the Doctor of Philosophy:-.

(i). Candidate who hold the Master's degree in Geography of Ahmadu Bello University, or any other recognized University with a minimum CGPA of 3.50.

(ii). Graduates of other recognized universities who hold higher degrees in Geography considered by the relevant Faculty Board, Postgraduate school and Senate to be equivalent to (i) above.

Candidates for the degree of Ph. D shall be examined by

(i). Written examination on course work in areas designated as core for Ph. D Candidates by the Department (see section 4.2).

(ii). Presentation of at least two seminars.

(iii). An examination on the dissertation before a panel of external and internal examiners based on the material of the dissertation as well as the general knowledge of the field in which the subject for research has been chosen.

Other conditions concerning the Ph.D. programme in the Department are specified in the Postgraduate School regulations.

**10.4.3 Masters Programmes**

*Admission Requirement*

The minimum qualification for admission to postgraduate work in Geography is any of the following:

(i). An honours degree (First Class or Second Class Upper Division) in Geography of Ahmadu Bello University or any other recognized University.

(ii). An honours degree in Geography (Second Class Lower Division) of Ahmadu Bello University provided that performance in the core Geography subjects and the area of specialization are of a standard which, in the opinion of the Head of Department and the Departmental Board of Postgraduate Studies, will make the holder benefit from postgraduate work.

(iii). A combined honours degree (at least Second Class Upper Division) in Geography and any other subject in which the G.P.A in Geography course is not lower than 3.5 and provided that the holders are prepared to take remedial courses in areas of Geography which may be stipulated by the Head of Department.

*Graduation requirement*

i. All the course units in the programme, with the exception of the field exercises which shall be continuously assessed, shall be examined at specific times as determined by the department.

ii. All candidates shall submit a research thesis, which shall be externally examined.

iii. To be awarded. M. Sc. degree in Geography, a candidate shall be required to pass all courses with a minimum score of 50% in each course and accumulate a minimum of 30 and a maximum of 45 credit units.

**10.4.3a M. Sc. Geography (Physical)**

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| GEOG 801 | Philosophy and methodology in Geog. | 3 | Departmental core |
| GERG 803 | Fundamentals of GIS | 3 | Elective |
| GEOG 811 | Advanced geomorphology | 3 | Elective |
| GEOG 813 | Advanced climatology | 3 | Elective |
| GEOG 815 | Drainage basin geomorphology | 3 | Elective |
| GEOG 817 | Advanced pedology | 3 | Elective |
| GEOG 819 | Land resources analysis | 3 | Elective |
| GEOG 821 | Tropical geomorphology | 3 | Elective |
| GEOG 855 | Climate change and development | 3 | Specialized core |
| GEOG 861 | Environmental monitoring and planning | 3 | Elective |
| GEOG 881 | Seminar I | 1 | Specialized core |
| GEOG 883 | Seminar III | 1 | Specialized core |
| GEOG 891, 893 | Research/Thesis | 2/semester | Specialized core |
| **Semester 2** | | | |
| GEOG 802 | Research methods | 3 | Departmental core |
| GEOG 804 | Spatial analysis | 3 | Elective |
| GEOG 812 | Lab and field techniques | 3 | Elective |
| GEOG 814 | Applied climatology | 3 | Elective |
| GEOG 816 | Advanced Biogeography | 3 | Elective |
| GEOG 818 | Water resources evaluation | 3 | Elective |
| GEOG 832 | Quantitative analysis | 3 | Departmental core |
| GEOG 862 | Environmental Impact Assessment | 3 | Elective |
| GERG 804 | Data base management | 3 | Elective |
| GEOG 882 | Seminar II | 1 | Specialized core |

| | | | |
|---|---|---|---|
| GEOG 892, 894 | Research/Thesis II, IV | 10 | Specialized core |

Note: Students are required to pass all course units and accumulate a minimum of 30 and maximum of 45 credit units.

**10.4.3b M.Sc. Geography (Human)**

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| GEOG 801 | Philosophy and methodology in Geog. | 3 | Departmental core |
| GERG 803 | Fundamentals of GIS | 3 | Elective |
| GEOG 841 | Demographic analysis | 3 | Elective |
| GEOG 843 | Urban analysis techniques and modeling | 3 | Elective |
| GEOG 861 | Environmental monitoring and planning | 3 | Elective |
| GEOG 873 | Medical Geography | 3 | Elective |
| GEOG 875 | Advance transport Geography | 3 | Elective |
| GEOG 851 | Advanced Economic Geography | 3 | Elective |
| GEOG 853 | Advanced Agricultural Geography | 3 | Elective |
| GEOG 855 | Climate change and development | 3 | Specialized core |
| GEOG 881 | Seminar I | 1 | Specialized core |
| GEOG 883 | Seminar III | 1 | Specialized core |
| GEOG 891, 893 | Research/Thesis | 2/semester | Specialized core |
| **Semester 2** | | | |
| GEOG 802 | Research methods | 3 | Departmental core |
| GEOG 804 | Spatial analysis | 3 | Elective |
| GEOG 832 | Quantitative analysis | 3 | Departmental core |
| GEOG 842 | Urban Geography | 3 | Elective |
| GEOG 862 | Environmental Impact Assessment | 3 | Elective |
| GEOG 872 | Political Geography | 3 | Elective |
| GEOG 846 | Gender and development | 3 | Elective |
| GEOG 852 | Industrial Geography | 3 | Elective |
| GEOG 882 | Regional development | 3 | Elective |
| GERG 804 | Data base management | 3 | Elective |
| GEOG 882 | Seminar II | 1 | Specialized core |
| GEOG 892, 894 | Research/Thesis | 2/semester | Specialized core |

Note: Students are required to pass all course units and accumulate a minimum of 30 and maximum of 45 credit units.

**10.4.4 M. Sc. Rural Development**

*Admission Requirement*

To get into the course, a candidate needs

(i) A minimum of second class lower honours degree, normally in science or relevant fields.
(ii) The programme consists of lecture courses, and a written original thesis.
(iii) Workshops and practical (field and laboratory based) sessions and field trip are tied to the appropriate individual courses and provide a vital forum for acquisition of relevant skills.
(iv) Students may be required to take special or remedial postgraduate or undergraduate courses for which they may not get any postgraduate credit.

*Graduation Requirement*

All the course units in the programme, with the exception of the Rural Planning workshops which shall be continuously assessed, shall be examined at specified times as determined by the Department. To be awarded M.Sc. degree in Rural Development, candidate shall be required to:-

(i) Pass all course units and accumulate a minimum of 30 and maximum of 45 credit units.
(ii) Scored minimum final mark of 50% across all classes of the taught component of the programme,
**(iii)** Passed the original research Master's thesis submitted and which was subjected to external examination.

*Course Structure*

**Semester 1**

| **Course Code** | **Course Title** | **Status** | **Credit Unit** |
|---|---|---|---|
| GERD 881 | Research seminar I | Specialized core | 1 |
| GERD 883 | Research seminar III | Specialized core | 1 |
| GERG 803 | Fundamentals of GIS | Elective | 3 |
| GERD 801 | Structure and functions of rural systems | Specialized core | 3 |
| GERD 803 | Rural planning | Specialized core | 3 |
| GERD 805 | Rural planning workshop | Specialized core | 3 |
| GEOG 819 | Land resources analysis for rural development | Specialized core | 3 |
| AERS 821 | Principles of extension programming | Elective | 3 |
| GERD 891, 893 | Master's research project | Specialized core | 2/semester |
| **Semester 2** | | | |
| GERD 882 | Research seminar II | Specialized core | 1 |
| GEOG 802 | Research methods | Departmental core | 3 |
| GEOG 846 | Gender and development | Elective | 3 |
| GERD 802 | Rural development process | Specialized core | 3 |
| GERD 804 | Rural development strategies | Specialized core | 3 |
| GERD 806 | Field attachment | Specialized core | 1 |
| GEOG 832 | Quantitative techniques | Departmental core | 3 |
| GERG 804 | Data base management | Departmental core | 3 |
| GERD 892, 894 | Master's research project | Specialized core | 2/semester |

Note: Students are required to pass all course units and accumulate a minimum of 30 and maximum of 45 credit units excluding seminars and thesis.

**10.4.5 M. Sc Remote Sensing and Geographic Information Systems**

*Admission Requirement:-*

The minimum qualification for admission into the programmes is any of the following:

(i) Minimum of Second Class lower Divisions in Geography of Ahmadu Bello University or of any other recognized University.
(ii) Minimum of Second Class Lower Divisions in any cognate discipline including Urban and Regional Planning, Physical Sciences, Engineering, Agricultural Science, Social Sciences, Information Science and Environmental sciences of Ahmadu Bello University or any other recognized University.
(iii) Possess a Postgraduate Diploma in Geographical Information Systems (GIS) and Remote Sensing (RS) from Ahmadu Bello University, Zaria or other recognized University.

*Graduation Requirement*

i. All the course units in the programmes, with the exception of the practical and field exercises which shall be continuously assessed, shall be examined at specific times as determined by the Department.
ii. All candidates shall submit a research Thesis, which shall be externally examined.
iii. To be awarded the M.Sc. degree in RS & GIS, a candidate shall be required to pass all prescribed course (with a minimum score of 50%) and submit a thesis.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| GERG 801 | Spatial analysis | 3 | Specialized core |
| GERG 803 | Principles of remote sensing | 3 | Specialized core |
| GERG 805 | Fundamentals of Geographical Information systems | 3 | Specialized core |
| GERG 807 | Geographical Information Systems Operation I | 3 | Specialized core |
| GERG 809 | Image processing | 2 | Specialized core |
| GERG 811 | Geographical Information Systems data acquisition techniques | 3 | Elective |
| GERG 813 | Advanced modeling in GIS | 3 | Elective |
| GERG 881 | Seminar I | 1 | Specialized core |
| GERG 883 | Seminar III | 1 | Specialized core |
| GERG 891, 893 | Research/Thesis I, III | 2/semester | Specialized core |
| **Semester 2** | | | |
| GERG 802 | Geographical Information Systems Operation II | 3 | Specialized core |
| GERG 804 | Data base management | 2 | Specialized core |
| GERG 806 | Principles of cartography | 2 | Specialized core |
| GERG 808 | Remote sensing and Geographic Information system applications | 2 | Specialized core. |
| GERG 810 | Management Issues in Geographical Information Systems | 3 | Elective |
| GERG 882 | Research seminar II | 1 | Specialized core |
| GERG 802 | Research Methods | 3 | Departmental core |
| GERG 832 | Quantitative techniques | 3 | Departmental core |
| GEOG 861 | Environmental monitoring and planning | | Elective |
| GEOG 862 | Environmental Impact Assessment | 3 | Elective |
| GERG 892, 894 | Research/Project II, IV | 2/semester | Specialized core |

### 10.4.6 M. Sc. Population and Demographic Studies

*Admission Requirement*

The Master of Science degree programme in Population and Demographic Studies is a full time course. The minimum qualification for admission to the programme is any of the following:

(i) An honours degree (First Class or Second Class Divisions) of Ahmadu Bello University or of any other recognized university in Geography, Urban and Regional Planning, Sociology, Political Science, Economics, Social Statistics, Statistics or Mathematics,

(ii).An honours degree in Geography (Second Class Lower Division) of Ahmadu Bello University provided that performance in the core Geography subjects and the area of specialization are of a standard which, in the opinion of the Department will make the holder benefit from postgraduate work.

(iii).A combined honours degree (at least Second Class Upper Division) in Geography and any other subject in which the G.P.A in Geography course is not lower than 3.5 and provided that the holders are prepared to take remedial courses in areas of Geography which may be stipulated by the Department.

*Graduation Requirement*

i. All the course units in the programme, with the exception of the field exercises which shall be continuously assessed, and examined at specific times as determined by the department.

ii. All candidates shall submit a research thesis, which shall be externally examined.

iii. To be awarded. M. Sc. degree in Population and Demographic Studies, a candidate shall be required to pass all courses with a minimum score of 50% in each course and accumulate a minimum of 36 credit units.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| GEPD 881 | Postgraduate seminar I | 1 | Specialise core |
| GEPD 801 | Population and society | 3 | Specialise core |
| GEPD 803 | Theories and typologies of migration | 3 | Specialized core |
| GEPD 805 | Data and Methods for population and migration research | 3 | Specialized core |
| GEPD 807 | Population, resource and econ. devt. | 3 | Elective |
| GEPD 809 | Conflict and Forced Migration | 3 | Elective |
| GEPD 811 | Demographic Methods and analysis | 3 | Specialized core |
| GEPD 813 | Population growth, food and environment | 3 | Specialized core |
| GEPD 883 | Seminar III | 1 | Specialized core |
| GERG 803 | Fundamentals of GIS | 3 | Elective |
| GEPD 891, 893 | Field research and thesis | 2/semester | Specialized core |

**Semester 2**

| Course Code | Course Title | Credit Unit | Status |
|---|---|---|---|
| GEPD 892, 894 | Field research and thesis | 2/semester | Specialized core |
| GEPD 802 | Globalization, migration and development. | 3 | Specialized core |
| GEPD 804 | Population aging | 3 | Elective |
| GEPD 806 | Population policy | 3 | Specialized core |
| GEPD 808 | Trans-national migration and diaspora | 3 | Elective |
| GEPD 810 | Family demography and life chances | 3 | Specialized core |
| GEOG 802 | Research methods | 3 | Departmental core |
| GERG 804 | Data base Management | 3 | Elective |
| GEOG 832 | Quantitative techniques | 3 | Departmental core |
| GEPD 882, 884 | Seminar II, IV | 1 | Specialized core |

Note: students are required to pass all course units and accumulate a minimum of 30 and maximum of 45 credit units excluding seminars and research projects.

### 10.4.7 M.Sc. Transport Management

*Admission Requirement*

The Master of Science degree programme in Transport Management is a full time course. The minimum qualification for admission to the programme is any of the following:

(i) An honours degree (first class or second class divisions) of Ahmadu Bello University or of any other recognised university in geography, urban and regional planning, engineering, economics, business administration, mathematics and physics, of Ahmadu Bello University of any other recognized university.

(ii). An honours degree in Geography (Second Class Lower Division) of Ahmadu Bello University provided that performance in the core Geography subjects and the area of specialization are of a standard which, in the opinion of the Head of Department and the Departmental Board of Postgraduate studies, will make the holder benefit from postgraduate work.

(iii). A combined honours degree (at least Second Class Upper Division) in Geography and any other subject in which the G.P.A in Geography course is not lower than 3.5 and provided that the holders are prepared to take remedial courses in areas of Geography which may be stipulated by the Department.

*Graduation Requirement*
i. All the course units in the programme, with the exception of the field exercises which shall be continuously assessed,shall be examined at specific times as determined by the department.
ii. All candidates shall submit a research thesis, which shall be externally examined.
iii. To be awarded the. M. Sc. degree in Transport Management, a candidate shall be required to pass all courses with aminimum score of 50% in each course and accumulate a minimum of 30 and a maximum of credit units excludingseminars and projects

*Course Structure*
**Semester 1**

| Course code | Course title | Credit units | Status |
|---|---|---|---|
| GETM 881 | PG Seminar I | 3 | Specialized core |
| GETM 801 | Transport and development | 3 | Specialized core |
| GETM 803 | Urban transport management | 3 | Specialized core |
| GETM 805 | Transport logistics and distribution | 3 | Specialized core |
| GETM 807 | Transport and the environment | 3 | Elective |
| GETM 809 | Transport economics | 3 | Specialized core |
| GETM 811 | Air transport industry | 3 | Elective |
| GERG 803 | Fundamentals of GIS | 3 | Elective |
| GETM 881 | Seminar I | 1 | Specialized core |
| GETM 883 | Seminar III | 1 | Specialized core |
| GETM 891, 893 | Research/Thesis | 2/semester | Specialized core |

**Second Semester**

| Course code | Course title | Credit units | Status |
|---|---|---|---|
| GETM 882 | PG Seminar II | 1 | Specialized core |
| GETM 802 | Rural transport | 3 | Specialized core |
| GETM 804 | Inter-modal transport | 3 | Specialized core |
| GETM 806 | Transport planning and policy | 3 | Specialized core |
| GETM 808 | Transport for recreation and tourism | 3 | Elective |
| GETM 810 | Legal and regulatory issues | 3 | Elective |
| GEOG 804 | Data base management | 3 | Departmental core |
| GEOG 802 | Research methods | 3 | Departmental core |
| GEOG 832 | Quantitative techniques | 3 | Departmental core |
| GETM 892, 894 | Research/Thesis | 2/semester | Specialized core |

Note: Students are required to pass all course units and accumulate a minimum of 30 and maximum of 45 credit units excluding seminars and projects.

### 10.4.8 M. Sc. Environmental Management

*Admission Requirement*
To get into the course, a candidate needs

i. a minimum of second class lower honours degree, normally in science or Engineering disruptive.

Assessment:

i. The programme consists of lecture courses, and a written original thesis.
ii. Workshops and practical (field and laboratory based) sessions and field trip are tied to the appropriate individual courses and provide a vital forum for acquisition of relevant skills.
iii. Students may be required to take special or remedial postgraduate or undergraduate courses for which they may not get any postgraduate credit.

*Graduation Requirement*

All the course units in the programme, which shall be continuously assessed, shall be examined at specified times as determined by the Department. To be awarded M.Sc. degree in Environmental Management, student must:

i. accumulate no fewer than 30 and maximum of 45 credit units excluding seminars and thesis.
ii. scored minimum final mark of 50% across all classes of the taught component of the programme,
iii. Passed the original research Master's thesis submitted and which was subjected to external examination.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| GEEM 801 | Environmental assessment I | 3 | Specialized core |
| GEEM 803 | Environmental policy and management | 3 | Specialized core |
| GEEM 805 | Environmental auditing | 3 | Elective |
| GEEM 808 | Waste management | 3 | Elective |
| GEEM 809 | Nature conservation management | 3 | Elective |
| GEEM 811 | Pollution control | 3 | Elective |
| GEEM 813 | Sustainable agriculture | 3 | Elective |
| GEOG 819 | Land resources analysis | 3 | Specialized core |
| GEOG 861 | Environmental monitoring and planning | 3 | Elective |
| GERG 803 | Fundamentals of GIS | 3 | Elective |
| GEEM 881 | Seminar I | 1 | Specialized core |
| GEEM 883 | Seminar III | 1 | Specialized core |
| GEEM 892, 894 | Research/Thesis | 2/semester | Specialized core |

**Second Semester**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| GEEM 892, 894 | Field research and thesis | 2/Semester | Specialized core |
| GEEM 802 | Environmental economics | 3 | Specialized core |
| GEEM 804 | Field techniques for environmental managers | 3 | Specialized core |
| GEEM 806 | Land restoration and reclamation | 3 | Elective |
| GEEM 808 | Sustainable watershed management | 3 | Elective |
| GEEM 810 | Global climate and environmental change | 3 | Elective |
| GEEM 812 | Energy conservation and management | 3 | Elective |
| GEEM 814 | Environmental risk assessment | 3 | Elective |
| GEEM 816 | Health and environment | 3 | Elective |
| GEOG 802 | Research methods | 3. | Departmental core |
| GEOG 832 | Quantitative techniques | 3 | Departmental core |
| GEOG 804 | Data base management | 3 | Departmental core |
| GEEM 882 | Seminar II | 1 | Specialized core |

Note: Students are required to pass all course units and accumulate a minimum of 30 and maximum of 45 credit units.

### 10.4.9 Post Graduate Diploma in Remote Sensing and Geographical Information Systems (GIS)

*Admission Requirement*

These are semi professional, full-time courses with multidisciplinary bias. The minimum qualification for admission to the diploma programmes in Geography is any of the following:

i. An honours degree (First Class or Second Class Divisions) in Geography of Ahmadu Bello University or of any other recognized University.
ii. An honours degree (First Class or Second Class Divisions) in any cognate subject of Ahmadu Bello University or of any other recognized university.

iii. A Third Class degree in Geography or any other cognate subject of Ahmadu Bello University with an additional qualification (PGD).
iv. Possess a HND in any cognate discipline with a minimum of Upper Credit.

*Graduation requirement*

(i) All the course units in the programmes, with the exception of the practical and field exercises which shall be continuously assessed, shall be examined at specific times as determined by the department.
(ii) All candidates shall submit a research project, which shall be externally moderated.
(iii) To be awarded the Diploma Certificate, a candidate shall be required to pass all course units (with a minimum score of 24) and accumulate a minimum of 24 credit units.

*Course Structure*
**Semester 1**

| **Course Code** | **Title** | **Credit Unit** | **Status** |
|---|---|---|---|
| GERG 781 | Seminar I | 1 | Specialized core |
| GERG 701 | Principles of remote sensing | 2 | Specialized core |
| GERG 703 | Imagery processing | 2 | Specialized core |
| GERG 705 | Fundamentals of GIS | 2 | Specialized core |
| GEOG 709 | Quantitative techniques | 3 | Departmental core |
| GERG 707 | Data base management | 2 | Specialized core |
| GERG 711 | Principles of surveying | 2 | Elective |
| GE0G 713 | Research methods | 3 | Departmental core |
| GERG 709 | Management issues in GIS | 2 | Elective |
| GERG791 | Research/Project | 2/semester | |
| **Semester 2** | | | |
| GERG 702 | Satellite systems | 2 | Elective |
| GERG 704 | Aerial photography | 2 | Elective |
| GERG 706 | Geographic data model and representation. | 2 | Elective |
| GERG 708 | GIS operations | 2 | Specialized core |
| GERG 710 | Application of remote sensing and Geographical Information Systems | 2 | Specialized core |
| GERG 714 | Principles of surveying | 2 | Elective |
| GERG 782 | Seminar II | 1 | Specialized core |
| GERG 792 | Research project | 2/semester | Specialized core |

Note: students are required to pass all course units and accumulate a minimum of 24 and 30 maximum credit units excluding seminars and thesis projects.

### 10.4.10 Post Graduate Diploma in Rural Development

*Admission Requirement*

These are semi professional, full-time courses with multidisciplinary bias. The minimum qualification for admission to the diploma programmes in Geography is any of the following:

(i) An honours degree (First Class or Second Class Divisions) in Geography of Ahmadu Bello University or of any other recognized University.
(ii) An honours degree (First Class or Second Class Divisions) in any cognate subject of Ahmadu Bello University or of any other recognized university.
(iii) A Third Class degree in Geography or any other cognate subject of Ahmadu Bello University with a relevant additional qualification (PGD).
(iv) Possessing HND in cognate discipline with a minimum of Upper Credit from a recognized institution.

*Graduation requirement*

(i) All the course units in the programmes, with the exception of the practical and field exercises which shall be continuously assessed, shall be examined at specific times as determined by the department.
(ii) All candidates shall submit a research project, which shall be externally moderated.
(iii) To be awarded the Diploma Certificate, a candidate shall be required to pass all course units (with a minimum score of 50) and accumulate a minimum of 24 and maximum of 30 credit units excluding seminars and thesis.

*Course Structure*
**Semester 1**

| **Course Code** | **Course Title** | **Credit Unit** | **Status** |
|---|---|---|---|
| GEOG 713 | Research methods | 3 | Departmental core |
| GERD 701 | Rural development theories | 3 | Specialized core |
| GERD 703 | Rural planning workshop | 3 | Specialized core |
| GERD 705 | Gender and rural livelihoods | 3 | Elective |
| GERD 707 | Population movements and rural development. | 3 | Elective |
| GEOG 709 | Quantitative techniques | | |
| GERD 781 | Seminar I | 1/semester | Specialized core |
| GERD 791 | Research/project 1 | 2/semester | Specialized core |

**Semester 2**

| | | | |
|---|---|---|---|
| GERD 702 | Rural Livelihoods and Production System | 3 | Elective |
| GERD 704 | Project Planning | 3 | Specialized core |
| GERD 706 | Rural Development Strategies | 3 | Specialized core |
| GERD 708 | Rural socio-economic survey | 3 | Elective |
| GERD 782 | Seminar II | 1/semester | Specialized core |
| GERD 792 | Research Project | 2/semester | Specialized core |

Note: Students are required to pass all course units and accumulate a minimum of 24 and maximum of 30 credit units excluding seminars and project.

### 10.4.11 Masters in Disaster Risk Management and Development Studies

*Course structure*
**Semester 1**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| DRMS 801 | Data Gathering Techniques and Analysis | 2 |
| DRMS 803 | Hazards and Disaster Management | 2 |
| DRMS 805 | Strategic Disaster Management | 2 |
| DRMS 807 | Disaster Management Principles and Practices | 2 |
| DRMS 809- | Public Health Aspect in Disaster Management | 2 |
| DRMS 811- | Political Strategic Planning | 2 |
| DRMS 813- | Information Management | 2 |
| DRMS 879- | Field Trips (one week practical attachment programme at NEMA; visit to emergency sites, man-made and natural hazard locations) | 2 |
| DRMS 881, | Seminar I | 1/Semester |
| DRMS 891, | Research/project 1 | 2/semester |

**Semester 2**

| | | |
|---|---|---|
| DRMS 804 – Disaster Risk Management | | 2 |
| DRMS 806 – Information Technology in Disaster Management | | 2 |
| DRMS 808 – Trauma Management | | 2 |
| DRMS 8010 – Management of Natural and Man-made Disasters | | 2 |
| DRMS 8012- Ethnic and Cultural Conduct | | 2 |
| DRMS 8014- Management of Media Relations | | 2 |
| DRMS 8016 -Environmental Risk and Impact Assessment | | 2 |
| DRMS 8018- Disaster Vulnerability Assessment | | 2 |
| DRMS 882 Seminar II | 1/Semester | |
| DRMS 892 Research/project II | 2/semester | . |

**Postgraduate Diploma in Climate Change Economics, Policy and Innovation**

**Introduction**

In the last three decades that Climate Change has become an issue of concern, the concentration of several Greenhouse Gases (GHGs) have been increasing since the Industrial Revolution. Several of these GHGs have long atmospheric lifespan of decades to centuries. The programme is aimed at responding to the need for research, training and understanding of Climate Change impacts, mitigation and adaptation. It will lead to a creation of knowledge based evidence, as well as inculcating trans-disciplinary research methods and approaches on climate issues /challenges.

*Admission Requirements*

The criteria for admission into the Postgraduate Diploma (PGD) Programme in Climate Change Economics, Policy and Innovation (CCEPI) are as follows:

- Candidates must have at least five "O" level credits including English and Mathematics;
- Candidates with third class degree from a recognized institution in any discipline;
- Candidates with Higher National Diploma (HND) from a recognized institution with at least lower credit;
- Any other relevant requirement binding the PG programme in Ahmadu Bello University, Zaria. The Postgraduate Diploma (PGD) programme in Climate Change Economics, Policy and Innovation (CCEPI) shall run for a minimum of 12 months and maximum of 18 months.

*Requirements for Graduation*

A candidate must have fulfilled the following conditions to be awarded the Postgraduate Diploma in Climate Change Economics, Policy and Innovation:

Registered and passed a minimum of 30 credit units of both core and elective courses as follows:

- Core courses — (24 Credit Units)
- Electives – (6 Credit Units)
- Seminar - (3 Credit Units)
- Project – (6 Credit Units)
- **Total – (39 Credit Units)**

*Course Structure*

| **First Semester Courses (Core)** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Credit Units** |
| **PGDCC 701** | Philosophy and Methodology of Climate Change Economics, Policy and Innovation (CCEPI) | **3** |
| **PGDCC 703** | Basic Quantitative Techniques in Geography | **3** |
| **PGDCC 705** | Introductory Climate and Biogeography | **3** |
| **PGDCC 709** | Fundamentals of Geographic Information System | **3** |
| **PGDCC 723** | Seminar | **3** |
| **First Semester Courses (Electives)** | | |
| **PGDCC 719** | Climate Change and Gender development | **3** |
| **PGDCC 721** | Climate Change Innovations in Arts and Humanities | **3** |

| **Second Semester Courses (Core)** | | |
|---|---|---|
| **Course Code** | **Course Title** | **Credit Units** |
| **PGDCC 702** | Economics of Climate Change | **3** |
| **PGDCC 704** | Climate Change Law and Policy | **3** |
| **PGDCC 706** | Basic Computer Appreciation | **3** |
| | | |
| **PGDCC 700** | Project | **6** |
| **Second Semester Courses (Electives)** | | |
| **PGDCC 708** | Ecosystem Management and Sustainability | **3** |
| **PGDCC 712** | Climate Change, Animal Biodiversity and Wildlife Management | **3** |

**M.Sc. Climate Change Economics, Policy and Innovation**

***Introduction***

In the last three decades that Climate Change has become an issue of concern, the concentration of several Greenhouse gases have been increasing since the Industrial Revolution. Several of these GHGs have long atmospheric lifespan of decades to centuries.

The programme is aimed at responding to the need for research, training and understanding of Climate Change impacts, mitigation and adaptation. It will lead to a creation of knowledge based evidence, as well as inculcating trans-disciplinary research methods and approaches on climate issues /challenges.

*Admission Requirements*

The criteria for admission into the Masters in Climate Change Economics, Policy and Innovation (CCEPI) are as follows:

- Candidates must have at least five "O" level credits pass including English and Mathematics;
- Candidates with Bachelors degree in Physical, Natural, Applied, Environmental, Agricultural Sciences and Education with a minimum of second class (lower) from an NUC approved University;
- Candidates with a Post Graduate Diploma in Climate Change economics, Policy and Innovation awarded by a recognized institution with not less than an upper credit.
- Any other relevant requirement binding the Post Graduate programme in ABU Zaria. A Masters programme shall run for a minimum of eighteen (18) months and a maximum of thirty six (36) months.
-

*Requirements for Graduation*

A candidate must have fulfilled the following conditions to be awarded an M.Sc in Climate Change Economics, Policy and Innovation:

i. registered and passed a minimum of 36 credit units of both core and elective courses as follows:
- Core courses — (27 Units)
- Electives – (9 Units)
- Dissertation – (6 Units)
- Total – (36 Units)

*Courses Structure*

| **First Semester Courses (Core)** | | |
|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CREDIT UNITS** |
| MSCCC 801 | Philosophy and Methodology of Climate Change | **3** |
| MSCCC 803 | Economics of Climate Change | **3** |
| MSCCC 805 | Climate Change and Agricultural Production | **3** |
| MSCCC 823 | Seminar | **3** |
| MSCCC 825 | Research Methods | **3** |
| MSCCC 809 | Agro- Climatology | **3** |
| **First Semester Courses (Electives)** | | |

| | | |
|---|---|---|
| MSCCC 807 | Climate Change Risk Management | **3** |
| MSCCC 811 | Agricultural Projects in a Changing Climate | **3** |
| MSCCC 813 | Sustainable Rural Development in a Changing Climate | **3** |
| MSCCC 815 | Climate Change and Human/Animal/Crop Diseases | **3** |
| MSCCC 817 | Environmental Economics | **3** |

| **Second Semester Courses (Core)** | | |
|---|---|---|
| MSCCC 800 | Dissertation | **6** |
| MSCCC 802 | Climate Change, Systems of Innovations and Emerging Technologies | **3** |
| MSCCC 804 | Climate Change Law, Policy and Politics | **3** |
| MSCCC 812 | Basic Statistics and Computer Application | **3** |
| **Second Semester Courses (Electives)** | | |
| MSCCC 806 | Climate Change Prediction and Engineering Infrastructure | **3** |
| MSCCC 808 | Ecosystem Management and Sustainability | **3** |
| MSCCC 810 | Climate Change and Wildlife Management | **3** |
| MSCCC 814 | Energy Management Principles | **3** |
| MSCCC 816 | Integrated Water Resources Management (IWRM) and Climate Change Adaptation | **3** |

**M.Phil Climate Change Economic, Policy and Innovation**

***Introduction***

In the last three decades that Climate Change has become an issue of concern, the concentration of several greenhouse gases have been increasing since the Industrial Revolution. Several of these Green House Gasses (GHGs) have long atmospheric lifespan of decades to centuries. The programme is aimed at responding to the need for research, training and understanding of Climate Change impacts, mitigation and adaptation. It will lead to a creation of knowledge based evidence, as well as inculcating trans-disciplinary research methods and approaches on climate issues /challenges.

*Admission Requirements*

The criteria for admission into the M.Phil in Climate Change Economics, Policy and Innovation (CCEPI) are as follows:

- Candidates must have at least five "0" level credits pass including English and Mathematics;
- Candidates with the M.Sc degree in any other course with a CGPA of at least 3.5, with Subjects Relevant from an NUC Approved University;
- Candidate with Masters in CCPEI with a CGPA of at least 3.5 from an NUC Approved University
- Any other relevant Requirement binding on the Post Graduate Programme of ABU Zaria
- A brief proposal of intended area of research

*Duration of the Programme*

A M.Phil programme shall run for a minimum of Thirty Six months.

*Requirements for Graduation*

A candidate must have fulfilled the following conditions to be awarded the M.Phil in Climate Change Economics, Policy and Innovation:

i. M.Phil programme should primarily be by research. In addition, the Departmental Postgraduate Committee may prescribe some courses of not more than 12 credit units to be taken by the candidate.
ii. Thesis of 24 credit units must be defended before a panel of examiners.
iii. The research theses should be relevant to the candidate's area of interest on an approved topic by the Department.
iv. A candidate must acquire a minimum of 30 credit unites before graduation (Including Seminar 3 Credit units Project 6 Credit Units)

*Course Structure*

| **First Semester Courses (Core)** | | |
|---|---|---|
| **Course Code** | **Course Titles** | **Credit unites** |
| MPLCC 900 | Project | 6 |
| MPLCC 901 | Philosophy and Methodology of CCPEI | 3 |
| MPHCC 921 | Tropical Climatology | 3 |
| MPLCC 925 | Basic metrology | 3 |
| MPLCC 923 | Seminar | 3 |
| **First Semester Courses ( Electives)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| MPLCC 907 | Climate Change Risk Management | 3 |
| MPLCC 909 | Climate Change and Gender Development | 3 |
| MPLCC 911 | Agricultural Projects in a Changing Climate | 3 |
| MPLCC 913 | Sustainable Rural Development in a Changing Climate | 3 |
| MPLCC915 | Climate Change and Human/ Animal/ Crop Diseases | 3 |
| MPLCC 917 | Principles and Technics of Ecosystem Management | 3 |
| **Second Semester Courses (Core)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| MPLCC 902 | Systems of Innovations and Emerging Technology | 3 |
| MPLCC 904 | Climate Change Law Policy and Politics | 3 |
| MPLCC | Natural and Man Made Disasters | 3 |
| **Second Semester courses (Elective)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| MPLCC 906 | Climate Change Prediction and Engineering Infrastructure | 3 |
| MPLCC 908 | Ecosystem Management and Sustainability | 3 |
| MPLCC 912 | Climate Change and Animal Biodiversity | 3 |
| MPLCC 910 | Climate Change and Wild life Management | 3 |
| MPLCC 912 | Climate Change and Animal Biodiversity | 3 |
| MPLCC 914 | Energy Management Principle | 3 |
| MPLCC 916 | Integrated Water Resources Management and Climate Change Adaptation | 3 |
| MPLCC 918 | Climate Change and Rural Entrepreneurship | 3 |

**Ph.D Climate Change Economic, Policy and Innovation**

**Introduction**

In the last three decades that Climate Change has become an issue of concern, the concentration of several Greenhouse Gases have been increasing since the Industrial Revolution. Several of these GHGs have long atmospheric lifespan of decades to centuries. The programme is aimed at responding to the need for research, training and understanding of Climate Change impacts, mitigation and adaptation. It will lead to a creation of knowledge based evidence, as well as inculcating trans-disciplinary research methods and approaches on climate issues /challenges.

*Admission Requirements*

The criteria for admission into the Doctor of Philosophy (PhD) in Climate Change Economics, Policy and Innovation (CCEPI) are as follows:

- Candidates must have at least five "0" level credits pass including English and Mathematics or a combination of relevant O level credits and a level in (maximum of 2 sittings) such as IJMB
- Candidates with the Second Class Lower M. Sc. Degree in Physical Sciences, Biological Sciences, Applied Sciences, Environmental Sciences, Agricultural Sciences and Education with a CGPA of at least 3.5 from an NUC approved University,

- Any other relevant requirement binding the Postgraduate Programme in ABU Zaria
- A brief proposal of intended area of research

*Duration of the Programme*
A Doctor of Philosophy (PhD) Programme shall run for a minimum of Thirty Six months and a maximum of Sixty months.

*Requirements for Graduation*
- A candidate must have fulfilled the following conditions to be awarded the Doctor of Philosophy (Ph.D) in Climate Change Economics, Policy and Innovation.
- Doctorate (Ph.D) programme should primarily be by research. In addition, the Departmental Postgraduate Committee may prescribe some courses of not more than 12 credit units to be taken by the candidate.
- A Doctoral (Ph.D) thesis of 24 credit units must be defended before a panel of examiners.
- The research Theses should be relevant to the candidate's area of interest on an approved topic by the Department.
- A candidate must acquire a minimum of 45 credit unites before graduation (Including Seminar 6 Credit Units theses 24 Credit Units)

*Course Structure*

| **First Semester Courses (Core)** | | |
|---|---|---|
| **Course Code** | **Course Titles** | **Credit unites** |
| PHDCC 900 | Project | 24 |
| PHDCC 901 | Philosophy and Methodology of CCPEI | 3 |
| PHDCC 903 | Geographic Information System Application | 3 |
| PHDCC 905 | Climate Change and Agricultural Production | 3 |
| PHDCC 919 | Applied Climatology | 6 |
| PHDCC 921 | Advanced Research Methodology | 3 |
| PHDCC 923 | Seminar | 3 |
| **First Semester Courses ( Electives)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| PHDCC 907 | Climate Change Risk Management | 3 |
| PHDCC 909 | Climate Change and Gender Development | 3 |
| PHDCC 911 | Agricultural Projects in a Changing Climate | 3 |
| PHDCC 913 | Sustainable Rural Development in a Changing Climate | 3 |
| PHDCC915 | Climate Change and Human/ Animal/ Crop Diseases | 3 |
| PHDCC 917 | Principles and Technics of Ecosystem Management | 3 |
| PHDCC 905 | Climate Change and Agricultural Production | 3 |
| PHDCC 919 | Applied Climatology | 6 |
| PHDCC 921 | Advanced Research Methodology | 3 |
| PHDCC 923 | Seminar | 3 |
| **First Semester Courses ( Electives)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| PHDCC 907 | Climate Change Risk Management | 3 |
| PHDCC 909 | Climate Change and Gender Development | 3 |
| **Second Semester Courses (Core)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| PHDCC 902 | Climate Change, Systems of Innovations and Emerging Technology | 3 |
| PHDCC 904 | Climate Change Law Policy and Politics | 3 |
| PDHCC 916 | Advanced Computing | 3 |
| PHDCC 918 | Entrepreneurship | 3 |
| | | |

| **Second Semester courses (Elective)** | | |
|---|---|---|
| **Course Code** | **Course Titles** | **Credit unites** |
| PHDCC 906 | Climate Change Prediction and Engineering Infrastructure | 3 |
| PHDCC 908 | Ecosystem Management and Sustainability | 3 |
| PHDCC 910 | Climate Change and Wild life Management | 3 |
| PHDCC 912 | Climate Change and Animal Biodiversity | 3 |
| PHDCC 914 | Energy Management Principle | 3 |
| **Second Semester Courses (Core)** | | |
| **Course Code** | **Course Titles** | **Credit unites** |
| PHDCC 902 | Climate Change, Systems of Innovations and Emerging Technology | 3 |
| PHDCC 904 | Climate Change Law Policy and Politics | 3 |

**M.Phil Disaster Management**
**Introduction**

The main aim of the programme is to build disaster risk management capacity at all levels within Ministries, Parastatals, Agencies, Organizations and Communities in Nigeria and beyond. This will enable participants to understand and effectively manage all kinds of disaster risks and their impacts.
The following specific objectives are emphasized:

- To establish a virtual Disaster Risk Management Training and Education Centre in Nigeria.
- To develop an education and training programme for all disaster risk management practitioners.
- To establish a multi-disciplinary research team to conduct disaster risk management research in Nigeria and beyond.
- Grasp the nature of vital linkages between disasters and disaster risk management, the development process and its implementation.

*Admission Requirements*

The criteria for admission into the Master of Philosophy (M.Phil) in Disaster Risks Management are as follows:

- Candidates must have at least five "0" level credits pass including English and Mathematics and any other three relevant "O" level credits.
- Candidates with M.Sc. in, Physical Sciences, Biological Sciences, Applied Sciences, Environmental Sciences, Agricultural Sciences, Education and M.Sc., Disaster Risk Management and holders of Professional Master Degree in disaster management from an NUC approved University.
- Any other relevant requirement binding the Postgraduate Programme in ABU Zaria.

*Duration of the Programme*

The Master of Philosophy (M.Phil) Programme shall run for a minimum of Twelve months and a maximum of Twenty four months.

*Graduation Requirements*

- A candidate must have fulfilled the following conditions to be awarded the degree of Master of Philosophy (M.Phil) in Disaster Management.
- Master of Philosophy (M.Phil) programme should primarily be by research. In addition, the Academic Board may prescribe some courses of not less than 12 credit units to be taken by the candidate.
- A Master of Philosophy (M.Phil) Thesis of 15 credit units must be defended before a panel of examiners.
- The research Dissertation should be relevant to the candidate's area of interest on an approved topic by the Centre.
- A candidate must acquire a minimum of 36 credit unites before graduation.

*Course Structure*

**First Semester**

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| DRMS 900 | Research Dissertation | Core | 15 |
| DRMS 901 | Advanced Research Methods | Core | 3 |
| DRMS 903 | Natural and man-made hazards and their Management | Elective | 3 |
| DRMS 905 | Vulnerability Capacity Assessment | Core | 3 |
| DRMS 907 | Disaster Risk Management Policies and Plans | Elective | 3 |
| DRMS 909 | Media, ICT and Disaster Management | Elective | 3 |
| DRMS 911 | DRMS 811- Political Strategic Planning | Elective | 3 |
| DRMS 913 | Applications of R/S and GIS in Disaster Management | Core | 3 |
| DRMS 915 | Public Health aspects in Disaster management | Core | 3 |
| DRMS 917 | Emergency Preparedness Response | Elective | 3 |
| DRMS 919 | Field Course | Core | 3 |
| DRMS 921 | Advanced Statistics and Computing | Core | 3 |
| DRMS 923 | Relief Material Procurement and Logistics | Elective | 3 |
| DRMS 925 | Shelter/ Camp Management | Elective | 3 |

**Second Semester**

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| DRMS 800 | Research Dissertation | Core | 15 |
| DRMS 802 | Management of Media Relations | Elective | 3 |
| DRMS 804 | Conflict Management | Core | 3 |
| DRMS 806 | Trauma Management | Core | 3 |
| DRMS 808 | Community Participation in Disaster Management | Elective | 3 |
| DRMS 812 | Rescue and Rehabilitation Operations | Core | 3 |
| DRMS 814 | Climate Change and Food Security | Core | 3 |
| DRMS 816 | Strategic Disaster Management Practices | Elective | 3 |
| DRMS 818 | Disaster Risk Reduction and Climate Change Adaptation | Elective | 3 |
| DRMS 822 | Damage, Loss and Needs Assessment | Core | 3 |
| DRMS 824 | Entrepreneurship | Core | 3 |

## 10.5 DEPARTMENT OF GEOLOGY

**10.5.1 PGD Geology; 10.5.2 PGD Petroleum Geology & 10.5.3 PGD Environmental Geology**
*Course Structure*
**Compulsory/Core Departmental Courses for all options**

**PGD Geology**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PGDG781 | Seminar (1cu/Semester) | 1cu/semester |
| PGDG791 | Research/Project (3cu/Semester) | 3/semester |
| PGDG701 | Advanced Mineralogy and Petrology | 2 |
| PGDG703 | Advanced Structural Geology | 2 |
| PGDG705 | Advanced Geochemical Techniques | 2 |
| PGDG707 | Environmental Management | 2 |
| PGDG709 | Advanced Hydrogeology | 2 |
| PGDG 711 | Palaeontology and Stratigraphy | 2 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PGDG782 | Seminar (1cu/Semester) | 1cu/semester |
| PGDG792 | Research/Project (3cu/Semester) | 3/semester |
| PGDG702 | Mineral Exploration Techniques | 2 |
| PGDG704 | Geophysical Data Acquisition and Interpretation | 2 |

**M.Sc. Geology – Petroleum Geology**
**Departmental Core**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PGDP781 | Seminar (1cu/Semester) | 1cu/semester |
| PGDP791 | Research/Project (3cu/Semester) | 3/semester |
| PGDP703 | Advanced Structural Geology | 2 |
| PGDP707 | Environmental Management | 2 |
| PGDP725 | Advance Well-logging Techniques | 2 |
| PGDP729 | Petroleum Economics | 2 |
| PGDP 711 | Palaeontology and Stratigraphy | 2 |

**Second Semester**

| | | |
|---|---|---|
| PGDP781 | Seminar (1cu/Semester) | 1cu/semester |
| PGDP791 | Research/Project (3cu/Semester) | 3/semester |
| PGDP722 | Basin and Reservoir Analysis | 2 |
| PGDP704 | Geophysical Data Acquisition and Interpretation | 2 |

**PGD Environmental Geology**
**Departmental Core**

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PGDV781 | Seminar (1cu/Semester) | 1cu/semester |
| PGDV791 | Research/Project (3cu/Semester) | 3/semester |
| PGDV721 | Advanced Mineralogy and Petrology | 2 |
| PGDV703 | Advanced Structural Geology | 2 |
| PGDV705 | Advanced Geochemical Techniques | 2 |
| PGDV707 | Environmental Management | 2 |

| | | |
|---|---|---|
| PGDV709 | Advanced Hydrogeology | 2 |
| PGDV731 | Environmental Pollution | 2 |
| **Second Semester** | | |
| PGDV781 | Seminar (1cu/Semester) | 1cu/semester |
| PGDV791 | Research/Project (3cu/Semester) | 3/semester |
| PGDV704 | Geophysical Data Acquisition and Interpretation | 2 |
| PGDV 732 | Analysis of Geologic Hazards | 2 |

**10.5.4 M.Sc. Geology**

The M.Sc. programme is carried out in two major fields of specialization, viz.

a) Applied Geology
b) Geology

A. The Applied Geology Course has three options:
   a) Mineral Exploration
   b) Hydrogeology
   c) Petroleum Geology

   The Mineral Exploration Course also has two options:
      i) Industrial Mineral Exploration
      ii) Metalliferous/Ore Mineral Exploration

B. The Geology Course includes the following:
   a) Igneous/Metamorphic Petrology
   b) Sedimentology
   c) Palaeontology/Stratigraphy
   d) Structural Geology

*Admission Requirements*

1.Candidates for the M.Sc. must have a Second Class B.Sc. Honours degree in Geology.

2. In special cases, candidates with a lower class of degree, but with relevant professional experience, may be considered for admission

However, candidates must make-up for deficiencies in their undergraduate training by taking appropriate remedial courses from our Geology undergraduate curriculum.

*Graduation Requirements*

a)Course work which is mandatory and examined.

b)Seminar to be presented to the public and examined by a panel of examiners

c) Research project at the end of which a thesis is to be submitted and examined by a panel of external and internal examiners including an oral defense.

*Course Structure*

**Compulsory/Core Departmental Courses for all options**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| GEOL 802 | Remote Sensing | 2 |
| GEOL 882 | Seminar (1cu/Semester) and Seminar (1cu/Second Semester) | 1cu/semester |
| GEOL 891 | Research/Thesis (2cu/Semester) | 2/semester |
| **M.Sc. Geology (Mineral Exploration)**<br>**Departmental Core** | | |
| **Course Code** | **Course Title** | **Credit Unit** |

| | | |
|---|---|---|
| **First Semester** | | |
| GEOL 803 | Preparation and Analysis of Geochemical Samples | 2 |
| GEOL 805 | Ore Evaluation and Mineral Economics | 2 |
| GEOL 809 | Advanced Applied Geophysics | 2 |
| GEOL 881 | Seminar (1cu/Semester) | 1 |
| LNSV331 | Surveying for professionals | 3 |
| | | |
| **Second Semester** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| GEOL 804 | Geology of Mineral Deposits | 3 |
| GEOL 806 | Mineral Exploration Strategy and Project Management | 2 |
| GEOL 810 | Advanced Mineralogy and Ore Microscopy | 3 |
| | | |
| **M.Sc. Geology (Geochemistry)** | | |
| | | |
| **Departmental Core** | | |
| **First Semester** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| GEOL 803 | Preparation and Analysis of Geochemical Samples | 2 |
| GEOL 805 | Ore Evaluation and Mineral Economics | 2 |
| GEOL 809 | Advanced Applied Geophysics | 2 |
| LNSV331 | Surveying for professionals | 3 |
| **Course Code** | **Course Title** | **Credit Unit** |
| **Second Semester** | | |
| GEOL 804 | Geology of Mineral Deposits | 3 |
| GEOL 808 | Water Quality | 2 |
| GEOL 822 | Advanced Theoretical Geochemistry | 2 |
| GEOL 832 | Advanced Mineralogy and Ore Microscopy | 3 |
| **M.Sc. Geology (Hydrogeology)** | | |
| | | |
| **Departmental Core** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| First Semester | | |
| GEOL 803 | Preparation and Analysis of Geochemical Samples | 2 |
| GEOL 807 | Water Resources Exploration and Management | 3 |
| GEOL 809 | Advanced Applied Geophysics | 2 |
| AGEN403 | Engineering Hydrology | 3 |
| WREN305 | Water Resources for Surveyors | 2 |
| LNSV331 | Surveying for professionals | 3 |
| **Second Semester** | | |
| GEOL 808 | Water Quality | 2 |
| GEOL 814 | Sedimentary Petrology | 3 |
| AGEN 804 | Advanced Geohydrology | 3 |
| | | |
| **M.Sc. Geology (Igneous/Metamorphic Petrology)** | | |
| | | |
| **Departmental Core** | | |
| **Course Code** | **Course Title** | **Credit Unit** |
| GEOL 803 | Preparation and Analysis of Geochemical Samples | 2 |
| GEOL 811 | Research Igneous Petrology | 3 |
| GEOL 813 | Petrographic Methods | 2 |
| | | |
| **Second Semester** | | |

| | | |
|---|---|---|
| GEOL 810 | Advanced Mineralogy and Ore Microscopy | 3 |
| GEOL 812 | Research Metamorphic Petrology | 2 |

**M.Sc. Geology (Sedimentology)**
**Departmental Core**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| **First Semester** | | |
| GEOL 803 | Preparation and Analysis of Geochemical Samples | 2 |
| GEOL 813 | Petrographic Methods | 2 |
| GEOL 815 | Sedimentary Basin Analysis | 2 |
| GEOL 817 | Advanced Palaeontology | 3 |
| **Second Semester** | | |
| GEOL 814 | Sedimentary Petrology | 3 |
| GEOL 816 | Methods of Sediment Analysis | 2 |
| GEOL 818 | Advanced Micropalaeontology | 2 |

**M.Sc. Geology (Structural Geology)**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| **First Semester** | | |
| GEOL 809 | Advanced Applied Geophysics | 2 |
| GEOL 823 | Rock Deformation and Fabric Analysis | 2 |
| GEOL 825 | Small Scale Structures | 3 |
| **Second Semester** | | |
| GEOL 824 | Regional Tectonics and Geodynamics | 2 |
| GEOL 826 | Regional Tectonics and Geodynamics II | 2 |

**M.Sc. Geology (Palaeontology)**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| **First Semester** | | |
| GEOL 809 | Advanced Applied Geophysics | 2 |
| GEOL 815 | Sedimentary Basin Analysis | 2 |
| GEOL 817 | Advanced Palaeontology | 3 |
| GEOL 819 | Palynology | 2 |
| **Second Semester** | | |
| GEOL 814 | Sedimentary Petrology | 3 |
| GEOL 818 | Advanced Micropalaeontology | 2 |
| GEOL 834 | Palaeoecology | 2 |

**M.Sc. Geology – Petroleum Geology**
**Departmental Core**

**First Semester**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| GEOL 815 | Sedimentary Basin Analysis | 2 |
| GEOL 819 | Palynology | 2 |
| GEOL 827 | Field Techniques in Structural Geology | 2 |
| GEOL 829 | Subsurface Geology & Well-Logging Interpretation | 2 |

| **Second Semester** | | |
|---|---|---|
| GEOL 808 | Water Quality | 2 |
| GEOL 814 | Sedimentary Petrology | 3 |
| GEOL 818 | Advanced Micropalaeontology | 2 |
| GEOL 834 | Palaeoecology | 2 |
| GEOL 836 | Petroleum Engineering Project Management and Economics | 2 |

**Elective Courses**

| **Course Code** | **Course Title** | **Credit Unit** | **Option** |
|---|---|---|---|
| CHEM 815 | Spectroscopic Analysis | 3 | M, H,G |
| CHEM 821 | Introduction to the Environment | 4 | M, H,G |
| GERG 808 | Remote Sensing and Geographic Information System Application | 2 | All options |
| GERG 809 | Image Processing | 2 | All options |
| GEOG 862 | Environmental Impact Assessment | 3 | M, H, G. |
| WREN 805 | Principles of Water Quality | 2 | H, PG |
| WREN 818 | Environmental Pollution Control | 3 | H,M |
| MMEN 804 | Advanced Mineral processing | | M, G |

M: Mineral Exploration, H: Hydrogeology, G: Geochemistry, PG: Petroleum Geology
P/S. Paleontology and Stratigraphy, STX: Structural Geology, S: Sedimentology

**10.5.6 Ph.D. Geology**

*Admission Requirements*

The following shall be eligible to seek registration for the degree of Ph.D.:

a)Candidates who hold Masters degrees of Ahmadu Bello University with a min. CGPA of 3.5;

b) Graduates of other recognized universities who hold higher degrees considered by the Faculty Board, Postgraduate School Board and Senate to be equivalent to (a) above.

c) Candidates with any other qualifications, which together with relevant experience, are deemed to be equivalent to (a) or (b) above.

*Graduation Requirements*

a) Course work: A Ph.D. student is required to prepare and present an initial seminar

b) Research: The Ph.D. Geology programme is by research that involves field work, laboratory studies and data interpretation; at the end of which a Ph.D. Dissertation is to be produced.

c) Seminar/Examination: Candidates for the Ph.D. shall be examined by:
   i) Written examination on coursework where applicable
   ii) Presentation of at least three seminars
   iii) An examination on the dissertation before a panel of external and internal examiners and representatives of the faculty and SPGS.

## DEPARTMENT OF MATHEMATICS

M. Sc. Mathematics
Ph. D. Mathematics

**10.6.5 Master of Science (M.Sc.) Mathematics**

*Admission Requirements*

1. All candidates must have five credit passes including English, Mathematics and two other relevant science subjects at 'O' Level;
2. Candidates with Bachelor's degree from an approved university must obtain a minimum of second class lower division with CGPA of at least 3.0/5.0 in Mathematics, Mathematics with Computer Science, Mathematics with Statistics or equivalent from any recognized University;
3. Candidates with a third class or second class lower (with a CGPA less than 3.0/5.0) Bachelor's degree plus a minimum of five years post-graduation experience in Mathematicsor equivalent from approved institutions may also be considered for admission.

*Graduation Requirements*

To graduate, a student must earn 42 credit units, out of which 36 credit units are core courses and 6 credit units elective courses. The thesis is approved subject to its evaluation by an external examiner appointed by the university and also after an oral examination by a board of internal/external examiners. However, all these rules and regulations stated above are subject to change from time to time by the University.

*Course Structure*

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| MATH 801 | Algebra | 3 |
| MATH 803 | Functional Analysis | 3 |
| MATH 805 | Partial Differential Equations | 3 |
| MATH 807 | Space Dynamics | 3 |
| SCI 801 | Management and Entrepreneurship | 2 |
| MATH 881& 883 | Seminar I & III | 1 |
| MATH 891& 893 | ResearchThesis I & III | 4 |

**2nd Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| MATH 802 | Algebraic Topology | 3 |
| MATH 804 | Advanced Complex Analysis | 3 |
| MATH 806 | Advanced Set Theory | 3 |
| MATH 808 | Computational Fluid Dynamics | 3 |
| SCI 802 | ICT and Research Methodology | 2 |
| MATH 882& 884 | Seminar II & IV | 1 |
| MATH 892& 894 | ResearchThesis II & IV | 4 |

**Electives**

| Course Code | Course Title | Credit Units |
|---|---|---|
| MATH 809 | Linear and Nonlinear Programming | 3 |
| MATH 812 | Group Representation Theory | 3 |
| MATH 814 | Algebraic Theory of Semigroup | 3 |
| MATH 816 | Advanced Differential Equations | 3 |

### 10.6.6 Doctor of Philosophy (Ph.D.) Mathematics

*Admission Requirements*

To be eligible for admission into Ph.D. degree Programme the candidate must have obtained M. Sc. Degree in Mathematics with a research thesis component (not project) or its equivalent from a recognized university. Candidates with a CGPA score of less than 3.5 are not eligible for Ph.D. admission. Where a Ph.D. applicant is judged to be deficient or has a professional master's degree, he/she may be considered for an M.Phil. admission. Applicants who earn a minimum CGPA of a 3.5 at the end of the M. Phil. programme shall automatically proceed with the Ph.D. programme.

*Graduation Requirements*

The Ph.D. Programme is by research only and subject to fulfilling the requirements as may be laid down by the university from time to time. The full time candidates may submit the Ph.D. Dissertation after a minimum period of three years from the date of registration and the part time candidate may do so after five years. The Dissertation is approved subject to its evaluation by an external examiner appointed by the University and also after an oral examination by a panel of Internal/External examiners.

*Research Areas*

The facilities for research in the department are available in the following areas

1. Quantum Mechanics
2. Numerical Analysis
3. Operator Algebras
4. Computational Fluid Dynamics
5. Logic / Set theory/Multiset Theory
6. Operations Research/Mathematical Programming
7. Semigroup Theory
8. Group Representations Theory
9. Analytical Dynamics
10. Magneto hydrodynamics
11. Heat and Mass Transfer
12. Stability
13. Differential Equation
14. Rhotrix Algebra

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Semester I, III, V, VII** | | |
| COSC 981, 983, 985, 987 | Seminar I, III, V & VII | 1/Semester |
| COSC 991, 993, 995, 997 | Research/Dissertation I, III, V & VII | 6/Semester |
| **Semester II, IV, VI, VIII** | | |
| COSC 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| COSC 992, 994, 996 & 998 | Research/Dissertation II, IV, VI & VIII | 6/Semester |
| | | |

## 10.8 DEPARTMENT OF PHYSICS

There are Nine postgraduate programmes offered/domiciles in the Physics Department:

1. PGD Radiation Protection and Safety
2. M.Sc. Nuclear Science
3. M.Sc. Physics
4. M.Sc. Applied Geophysics
5. M.Sc. Radiation Biophysics
6. Ph.D. Physics
7. Ph.D. Applied Geophysics
8. Ph.D. Radiation Biophysics

*Admission Requirements*

(a) The usual entry requirements are at least a second class honours degree in Physics, Mathematics or Engineering from a recognized university.
For the Geophysics programme, candidates having first degree in geology are acceptable provided they have studied Mathematics through differential equations and some Physics for at least one

year at University. Such students would be required to undertake further courses in Mathematics and in Physics during their postgraduate work. Candidates with their first degree in physics, Mathematics or Engineering; and who have opted for Geophysics, are not required to have any previous knowledge of geology. They are however expected to attend special courses in Geology and possibly physics during the postgraduate courses.

(b) A candidate will be admitted for one of these degrees only if he can show considerable aptitude for original research and if his intended research can be adequately supervised by a current member of staff.

(c) Admission requirements for M.Sc. candidates are as in paragraph (a) above. For a Ph.D., an M.Sc. degree will usually be a prerequisite.

All Ph.D. programs are by research and are expected to last for a minimum of 24 and a maximum of 36 months for full-time and minimum of 3 years and maximum of 5 years for part-time respectively. However, a student may be asked, in the case of a deficiency, to take some M.Sc. courses that may aid his research.

**10.8.1 M.Sc. Physics**

M.Sc. Physics Programme of Ahmadu Bello University, Zaria offers students an opportunity to specializein any of the following areas of Physics

(i) Nuclear Physics
(ii) Solid State Physics
(iii) Theoretical Physics.

*Admission requirements:*

At least a second class honours degree in Physics or Engineering Physics with good grades in core courses from a recognized University, subject to the University higher degree regulations. Degree holders in Mathematics or Engineering with good academic background may be considered, however they may be asked to register for some core courses in Physics at undergraduate level.

*Graduation requirements*

A minimum grade of C (marks 50% and above) is required for passing a course and the normal grading system is to be used. A candidate, only after successfully earning a minimum of 21 credit units in the course work, can be allowed to proceed with the project work simultaneously with other courses. However, project topics will be given at the beginning so that the students may be able to do the needed literature survey and preliminary data collection.

*Course Structure:*

a) All courses (core, elective or laboratory) are of 3 credit units.
b) Postgraduate seminar – 1CU/Semester
c) M.Sc. thesis – 8-12 credit units.

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PHYS 801 | Mathematical Methods in Physics | 3 |
| PHYS 811 | Advanced Quantum Mechanics | 3 |
| PHYS 813 | Advanced Statistical Mechanics | 3 |
| PHYS 812 | Advanced Electromagnetic Theory | 3 |
| PHYS 814 | Advanced Classical Mechanics | 3 |
| PHYS 861/862 | Advanced Physics Laboratory. | 3 |
| PHYS 881,882 | Seminar 1& 2 (1CU/Semester) | 1 |
| PHYS 891, 892 | Research/Thesis 1 & 2 (4CU/Semester) | 4 |
| **Interdisciplinary and General** | | |
| PHYS 823 | Low Temperature Physics | 3 |
| PHYS 825 | Laser and Magnetic resonance | 3 |
| PHYS 826 | Waves and Plasma | 3 |
| PHYS 824 | Radiation and Matter | 3 |

| | | |
|---|---|---|
| PHYS 825 | Advanced Electronics | 3 |
| **Theoretical:** | | |
| PHYS 832 | Group theory | 3 |
| PHYS 833 | Quantum field theory | 3 |
| PHYS 834 | Cryogenics and super fluids | 3 |
| PHYS 836 | Many body problem | 3 |
| PHYS 838 | High energy physics | 3 |
| **Solid State:** | | |
| PHYS 843 | Lattice Dynamics | 3 |
| PHYS 841 | Theory of Metals | 3 |
| PHYS 842 | Semiconductor Physics | 3 |
| PHYS 844 | Optical properties of solids | 3 |
| PHYS 846 | Electrical & Magnetic properties of solids | 3 |
| PHYS 848 | Defect studies in solid | 3 |
| **Nuclear** | | |
| PHYS 851 | Nuclear Structure | 3 |
| PHYS 855 | Elementary particles | 3 |
| PHYS 852 | Nuclear Reactions | 3 |
| PHYS 856 | Nuclear Instrumentation and Dosimetry | 3 |
| PHYS 854 | Nuclear Spectroscopy | 3 |
| PHYS 858 | Reactor Physics | 3 |

**Note:** Any course offered in the Radiation Biophysics program or Masters in Mathematics & Computer Science program can also be registered as an elective course.

| | | |
|---|---|---|
| 6 core courses | - | 18 units |
| 3 elective courses | - | 9 units |
| P/G Seminar | - | 3 units |
| M.Sc. thesis | - | 12+ units |
| **Total** | **-** | **40 units** |

### 10.8.2 M.Sc. Applied Geophysics

*Course Structure*

**Applied Geophysics Programme**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| PHYS871 | Seismology | 3 |
| PHYS872 | Geophysical Data Processing | 3 |
| PHYS873 | Potential Field Theory, Gravity and Magnetic Methods | 3 |
| PHYS874 | Well Logging and Nuclear Geophysics | 3 |
| PHYS875 | Electrical and Electromagnetic Methods | 3 |
| PHYS876/802 | Exploration Geophysics Seminar and Project Management | 2 |
| PHYS877 | Physics of the Solid Earth | 3 |

| | | |
|---|---|---|
| PHYS878 | Geophysics Field School | 2 |
| PHYS 881, 882, 883, 884 | Seminar (1CU/Semester) | 1 |
| PHYS 891, 892, 893, 894 | Research/Thesis (4 CU/Semester) | 4 |

**10.8.3 M.Sc. (Radiation Biophysics)**

*Admission Requirements*

Prospective students should have a formal education to at least a level equivalent to a university degree in any of the physical, chemical, life sciences or engineering. Students must have basic knowledge of atomic and nuclear physics or chemistry.

*Course Structure*

| Course Code | Course Titles | Credit Unit |
|---|---|---|
| PHYR861 | Radiation Physics | 3 |
| PHYR863 | Radiation Chemistry | 3 |
| PHYR862 | Radiation Biology | 3 |
| PHYR864 | Nuclear Chemistry and Isotope Production | 3 |
| PHYR865 | Health Physics Instrumentation and Practice | 3 |
| PHYR866 | Internal and External Dosimetry | 3 |
| PHYR867 | Principles of Radiation Protection | 3 |
| PHYR856 | Nuclear Instrumentation and Dosimetry | 3 |
| PHYSR854 | Atomic and Nuclear Spectroscopy | 3 |
| | | |
| **Electives (Cognates)** | | |
| PHYR871 | Application of Radiation in Medicine | 3 |
| PHYR872 | Application of Radiation in Industry | 3 |
| PHYR873 | Application of Radiation in Agriculture | 3 |
| PHYR874 | Radiation and Environment | 3 |
| PHYR875 | Advance Radiation Practical | 3 |
| PHYR876 | Research Methods in Radiation Studies | 3 |
| BIOL214 | Introd. Cytogenetics | 2 |
| BIOL217 | Structure and Function of major Cell Components | 2 |
| VMPH 815 | Introd. to Molecular Genetics | 3 |
| **Electives** | | |
| VPP602 | Bionucleonics | 2 |
| PHYS 852 | Nuclear Reactions | 3 |

**Researchwork**

| Courses | Course Title | Credit Unit |
|---|---|---|
| PHYS 881, 882, 883, 884 | Postgraduate Seminar (1CU/Semester) | 1 |
| PHYS870 | Lab./Fieldwork | 2 |
| PHYS 891, 892, 893, 894 | Research/Thesis (4CU/Semester) | 4 |
| | | |

**10.8.7 PhD. Applied Geophysics; 10.8.8 PhD Physics & 10.8.9 PhD Radiation Biophysics**

*Course Structure:*

**Semester I, III & V**

| Courses | Course Title | Credit Unit |
|---|---|---|
| PHYS 981, 983 & 985 | Seminar I, III & V (1CU/Semester) | 1 |
| PHYS 991,993 & 995 | Research/Dissertation (6CU/Semester) | 6 |

**Semester II, IV& VI**

| Courses | Course Title | Credit Unit |
|---|---|---|
| PHYS 982, 984& 986 | Seminar I, III & V (1CU/Semester) | 1 |
| PHYS 992,994& 996 | Research/Dissertation (6CU/Semester) | 6 |

**10.8.10 PGD Radiation Protection and Safety**

**10.8.11 M.Sc. Nuclear Science**

## DEPARTMENT OF STATISTICS

Postgraduate Diploma in Statistics (PGDS)
M. Sc. Statistics
Ph. D. Statistics

### 10.6.2 Postgraduate Diploma in Statistics

*Admission Requirements*

For admission into the Academic PGDS program, applicants must possess the following qualifications:

1. All candidates must have five credit passes including English, Mathematics and two other relevant science subjects at 'O' Level;
2. Candidates with Bachelor's degree from an approved university must obtain a minimum of third class degree in the relevant science discipline;
3. Holders of HND in relevant programmes from approved institutions with a minimum of Lower Credit may also be considered for admission.

*Graduation Requirements*

For a student to be awarded the postgraduate Diploma in Statistics, one must register for 30 credit units and earn at least 24 credit units, that is:

*Course Structure*

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PGDS 701 | Mathematical Statistics | 3 |
| PGDS 703 | Statistical Methods | 3 |
| PGDS 705 | Designs and Analysis of Experiments | 3 |
| PGDS 70X | 1st Semester Cognate Elective | 3 |
| PGDS 70X | 1st Semester Cognate Elective | 3 |
| PGDS 791 | Project I | 3/Semester |

**2nd Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| PGDS 702 | Nonparametric Statistics | 3 |
| PGDS 704 | Applied Multivariate Analysis | 2 |
| PGDS 706 | Statistical Inference | 3 |
| PGDS 70X | 2nd Semester Cognate Elective | 3 |

| | | |
|---|---|---|
| PGDS 792 | Project II | 3/Semester |

**Cognate Elective Courses**

| Course Code | Course Title | Credit Units | Semester |
|---|---|---|---|
| PGDS 707 | Mathematical Modelling | 3 | 1st |
| PGDS 708 | Mathematical Programming | 3 | 2nd |
| PGDS 709 | Demography | 3 | 1st |

### 10.6.7 Master of Science (M.Sc.) Statistics

*Admission Requirements*

1. All candidates must have five credit passes including English, Mathematics and two other relevant science subjects at 'O' Level;
2. Candidates with Bachelor's degree from an approved university must obtain a minimum of second class lower division with CGPA of at least 3.0/5.0 in Statistics, Statistics with Mathematics, and Statistics with Computer Science or equivalent from any recognized University;
3. Candidates with a third class or second class lower (with a CGPA less than 3.0/5.0) Bachelor's degree plus a minimum of five years post-graduation experience in Statistics, Statistics with Mathematics, Statistics with Computer Science or equivalent from approved institutions may also be considered for admission.

*Graduation Requirements*

To graduate, a student must earn 42 credit units, out of which 36 credit units are core courses and 6 credit units elective courses. The thesis is approved subject to its evaluation by an external examiner appointed by the University and also after an oral examination by a board of Internal/External examiners. However, all these rules and regulations stated above are subject to change from time to time by the University.

*Course Structure*

**1st Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| STAT 801 | Statistical Inference | 3 |
| STAT 803 | Design and Analysis of Experiments | 3 |
| STAT 805 | Nonparametric Statistical Methods | 3 |
| STAT 807 | Biostatistics | 3 |
| STAT 809 | Multivariate Analysis | 3 |
| SCI 801 | Management and Entrepreneurship | 2 |
| STAT 881& 883 | Seminar I & III | 1/Semester |
| STAT 891& 893 | Research Thesis I & III | 4/Semester |

**2nd Semester**

| | | |
|---|---|---|
| STAT 802 | Advanced Probability Theory | 3 |
| STAT 804 | Categorical Data Analysis | 3 |
| STAT 806 | Statistical Computing/Consulting | 3 |
| STAT 808 | Sample Survey Techniques | 3 |
| STAT 812 | Time Series Analysis | 3 |
| SCI 802 | ICT and Research Methodology | 2 |
| STAT 882& 884 | Seminar II 7 IV | 1 |
| STAT 892& 894 | Research Thesis II 7 IV | 4 |

### 10.6.8 Doctor of Philosophy (Ph.D.) Statistics

*Admission Requirements*

To be eligible for admission into Ph.D. degree Programme the candidate must have obtained M. Sc. Degree in Statistics with a research thesis component (not project) or its equivalent from a recognized university. Candidates with a CGPA score of less than 3.5 are not eligible for Ph.D. admission. Where a Ph.D. applicant is judged to be deficient or has a professional master's degree, he/she may be considered for an M. Phil. admission. Applicants who

earn a minimum CGPA of a 3.5 at the end of the M. Phil. programme shall automatically proceed with the Ph.D. programme.

*Graduation Requirements*
The Ph.D. Programme is by research only and subject to fulfilling the requirements as may be laid down by the University from time to time. The full time candidates may submit the Ph.D. Dissertation after a minimum period of three years from the date of registration and the part time candidate may do so after five years. The Dissertation is approved subject to its evaluation by an external examiner appointed by the University and also after an oral examination by a panel of Internal/External examiners.

*Research Areas*
The facilities for research in the department are available in the following areas
1. The Generalized Probability Models.
2. Stochastic Models of Human Fertility Behaviour.
3. Applications of Statistics in Bio-Medical Sciences.
4. Design of Experiments.
5. Industrial Statistics.
6. Time Series
7. Biostatistics
8. Multivariate Analysis
9. Operations Research
10. Sampling Theory

*Course Structure*

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Semester I, III, V, VII** | | |
| COSC 981, 983, 985, 987 | Seminar I, III, V & VII | 1/Semester |
| COSC 981, 983, 985, 987 | Seminar I, III, V & VII | 1/Semester |
| COSC 991, 993, 995, 997 | Research/Dissertation I, III, V & VII | 6/Semester |
| **Semester II, IV, VI, VIII** | | |
| COSC 982, 984, 986, 988 | Seminar II, IV, VI & VIII | 1/Semester |
| COSC 992, 994, 996 & 998 | Research/Dissertation II, IV, VI & VIII | 6/Semester |
| | | |

## 10.9 DEPARTMENT OF TEXTILE SCIENCE AND TECHNOLOGY

### 10.9.1 Postgraduate Diploma in Textile Science and Technology

*Admission Requirements*
The criteria for admission into the PGD programme will be as follows:

(i) All candidates must have five credit passes including English, Mathematics and Chemistry at 'O' Level
(ii) Candidates must possess first degree in Textile Science and Technology, Chemistry, Chemical Engineering at a minimum of third class degree.
(iii) Holders of HND in relevant programmes from approved institution with a minimum of Upper Credit level shall also be considered for admission
(iv) Holders of equivalent professional qualifications such as ATI from recognized institutions considered acceptable to the Department and Faculty of science

*Graduation Requirements*

A candidate must have fulfilled the following conditions to be awarded the Postgraduate Diploma:

(a) A candidate must pass a minimum of 24 credit units.
(b) Must pass all the Core courses
(c) Must register at least 4 units of Electives per semester
(d) Must submit a Project Report.

*Course Structure*

**Semester 1**

| Course code | Course title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TEXT 701 | Fibre Physics | 2 |
| TEXT 707 | Finishing Technology | 2 |
| TEXT 781 | Seminar I | 1/Semester |
| TEXT 791 | Research/Project I | 3/Semester |
| **Core Specialization Course** | | |
| **Colour Chemistry Option** | | |
| TEXT 721 | Colour Chemistry | 2 |
| TEXT 725 | Textile Physical Chemistry | 2 |
| | | |
| **Textile Science And Technology Option** | | |
| TEXT 703 | Yarn Technology | 2 |
| TEXT 705 | Non-Woven and Knitting Technology | 2 |
| | | |
| **Elective Courses** | | |
| TEXT 711 | Mechanical Properties of yarn | 2 |
| TEXT 713 | Fabric design, structure and analysis | 2 |
| TEXT 709 | Fabric Mechanics and properties | 2 |
| TEXT 723 | Laundry Technology | 2 |
| **Subtotal With a Minimum of 4 Credit Units of Electives** | | **12** |

**Semester 2**

| Course code | Course title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TEXT 722 | Coloration Technology | 2 |
| TEXT 782 | Seminar II | 1/Semester |
| TEXT 792 | Project II | 3/Semester |
| **Core Specialization Course** | | |
| **Colour Chemistry Option** | | |
| | | |
| TEXT 724 | Textile Organic Chemistry | 2 |
| TEXT 726 | Process Technology | 2 |
| TEXT 718 | Introductory Spectroscopy | 2 |
| | | |
| **Textile Science And Technology Option** | | |
| TEXT 702 | Fibre Production and Properties | 2 |
| TEXT 704 | Fabric Technology | 2 |
| TEXT 706 | Quality control/ Textile Testing | 2 |
| | | |
| **Elective Courses** | | |
| TEXT 708 | Manufacture of Textile Floor Coverings | 2 |
| TEXT 712 | Textile Fibre Analysis | 2 |
| TEXT 714 | Textile mathematics | 2 |

| | | |
|---|---|---|
| **Sub Total With a Minimum of 4 Credit Units of Electives** | | **16** |
| **Total** | | **28** |

**10.9.2 MSc. Colour Chemistry and Technology and 10.9.3 M.Sc. Textile Science and Technology**

*Admission Requirements*

1.1.1 All candidates must have five credit passes including English, Mathematics, Chemistry and or Physics

1.1.2 A minimum of second class lower degree with a CGPA of 3.25/5 scale in any branch of Textile Science and Technology, Chemistry, Chemical Engineering or any equivalent professional qualification from Ahmadu Bello University, Zaria or from any other recognized institution considered acceptable to the Department and Faculty of Science.

**1.1.3** Those applicants who do not possess the formal qualifications specified above(1.3.2), but who possess equivalent professional qualification e.g., A.S.D.C, A.T.I., Post Graduate Diploma in Textile Science and Technology or Post Graduate Diploma in Colour Chemistry with a minimum of CGPA 3.25/5 scale, and have considerable experience in the area of Textiles, Leather, Polymer or Colour using industries, may also be considered.

In all cases, successful applicants shall be required to make up for any deficiencies in their previous training by taking recommended courses within and outside the Department of Textile Science and Technology.

*Graduation Requirements*

A candidate must have fulfilled the following conditions to be awarded either of the Master'sDegree:

(e) A candidate must pass a minimum of 32 credit units.
(f) Must pass all the Core courses
(g) Must register at least 4 units of Electives per semester
(h) Must submit and defend a Thesis.

*Course Structure*

**Year 1: Semester 1**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TECT 805 | Polymer Chemistry | 3 |
| TECT 809 | Quality Control | 3 |
| CHEM 815 | Spectroscopy | 3 |
| TEXT 823 | Management and Entrepreneurship | 3 |
| TEXT 881 | Seminar I | 1/Semester |
| TEXT 891 | Research/Thesis I | 4/Semester |
| | | |
| **Core Specialization Course** | | |
| **MSc Colour Chemistry & Technology** | | |
| TECT 801 | Colour Chemistry I | 3 |
| TECT 803 | Coloration Technology | 3 |
| TECT 807 | Advance Textile Organic Chemistry | 3 |
| TECT 811 | Process Technology | 3 |
| | | |
| **MScTextile Science And Technology** | | |
| TEXT 801 | Advanced Fibre Science | 3 |
| TEXT 819 | Physical and Mechanical Properties of Textile Materials | 3 |
| TEXT 807 | Advanced Yarn Technology | 3 |
| TEXT 803 | Fabric Mechanics | 3 |

| | | |
|---|---|---|
| **Elective Courses** | | |
| TECT 813 | Finishing Technology | 3 |
| TEXT 805 | Colour Physics | 3 |
| TEXT 815 | Knitting Technology | 3 |
| TEXT 811 | Mechanical properties of yarns | 3 |
| **Subtotal with a minimum of 3 credits of electives** | | **27** |

**Semester 2**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TEXT 824 | ICT and Research Methodology | 3 |
| TECT 802 | Physical Chemistry of Dye Adsorption | 3 |
| TEXT 816 | Polymer Technology | 3 |
| TEXT 882 | Seminar II | 1/Semester |
| TEXT 892 | Research/Thesis II | 4/Semester |
| | | |
| **Core Specialization Course** | | |
| **MSc. Colour Chemistry & Technology Option** | | |
| TECT 804 | Chemistry and Application of Pigments | 3 |
| TECT 816 | Colour Chemistry II | 3 |
| | | |
| **MSc Textile Science And Technology Option** | | |
| TEXT 814 | Fabric Technology | 3 |
| TEXT 806 | Identification of Textile Materials | 3 |
| | | |
| **Elective Courses** | | |
| TECT 814 | Financial Management | 3 |
| TEXT 808 | Non-woven Technology | 3 |
| TEXT 802 | Fibre production and properties | 3 |
| **Subtotal with a minimum of six credit units of electives** | | **24** |
| **Total** | | **51** |

**Second Year: Semester 1**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TEXT 883 | Seminar III | 1/Semester |
| TEXT 893 | Research/Thesis III | 4/Semester |
| | | |

**Semester 2**

| **Course code** | **Course title** | **Credit Units** |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TEXT 884 | Seminar IV | 1/Semester |
| TEXT 894 | Research/Thesis IV | 4/Semester |
| | | |

**10.9.4 Doctor of Philosophy (PhD) Programs**(Textile Science and Technology; Colour Science and Technology AndTextile Chemistry)

*Admission Requirements*
Candidate for admission into any of the underlisted programs must possess:

- MSc at 3.50/5.00 scale in Textile Science and Technology, Colour Chemistry and Technology, Colour Science, Textile Chemistry, Textile Physics, Textile Evaluation, Textile Engineering, Chemistry, Chemical Engineering, Physics and other such related disciplines that the postgraduate study committee of the department would consider acceptable.

*Graduation Requirements:*
The PhD degree is by research and dissertation and taught courses. A candidate may also be required to take MSc course work if in the opinion of the department it will improve the candidate's background. Candidates are also required to present progress seminars yearly during the programme.
For graduation, a student is expected to satisfy the following conditions:

1. Pass the prescribed courses at "B" grade
2. Pass the oral defence of the research project
3. Produce a Dissertation

*Course Structure*

| Course code | Course title | Credit Units |
|---|---|---|
| **Core/Compulsory Departmental Course** | | |
| TEXT 911 | ICT and Research Methodology | 4 |
| TEXT 981-989 | Seminar | 1/Semester |
| TEXT 991 - 999 | Research/Dissertation | 6/Semester |
| | | |

**10.9.5 M. Phil Programmes**
Applicants holding MScs in disciplines different from Textile or Colour chemistry such as Engineering or Science can be admitted to the M.Phil.Programme to broaden their research activities in Textile Science and Technology or Colour Chemistry and Technology. Experienced workers with MScin Engineering/Science can also be admitted into the programme.

Other beneficiaries are students unable to complete their PhD within the stipulated period of time.

# CHAPTER 11

# FACULTY OF SOCIAL SCIENCES

*General Admission Requirements*

To be eligible for admission into the M. Sc. Degree programme a candidate must satisfy at least one of the following requirements:

(i) A Bachelor's degree in the discipline for which the candidate is seeking the M. Sc. Degree with a first or Second Class Honours from a recognized university.

(ii) A Bachelor's degree in a related discipline with a first or Second Class Honours. A candidate with this qualification will be required to complete satisfactorily certain remedial courses specified by the Department concerned and reported to the Faculty Postgraduate Board.

(iii) A candidate seeking admission into full-time or part-time programme leading to a Ph. D. degree must be required to fulfill at least one of the following requirements:

(a) A good Master's degree in the discipline from which the Master's degree is sought from a recognized University.

(b) A good Master's degree in a related discipline. A candidate with this qualification shall be required to complete satisfactorily a number of remedial courses prescribed by the Department concerned and reported to the Faculty Board.

*Graduation Requirements*

a. Course Work:
   - (a) Core Courses: To be taken by students specializing in related areas.
   - (b) Elective Courses: These are courses from related disciplines and departments if necessary.

b. Research:
   - (a) A Thesis/dissertation based on candidates' own research, is a requirement for the M. Sc. and Ph.D. degree programmes. The research subject chosen will normally be within the research areas offered by the relevant Department.
   - (b) Before embarking on this exercise, every candidate is expected to submit a research proposal, which must be approved by the candidate's supervisory committee.

A candidate who obtains an unsatisfactory/Failure result will be required to repeat the course.

## 11.1 DEPARTMENT OF ECONOMICS

### 11.1.1 M.Sc. (Economics)

*Admission Requirements*

To be eligible for admission into the M. Sc. Degree programme a candidate must satisfy the following requirements:

i. Five credits in SSCE, SC, GCE O/L obtained at not more than two sittings including Mathematics; English Language and Economics **or** three credits Two A/L passes at GCE or IJMB including Economics and Three credits at O'Level.

ii. B.Sc. Economics Degree with a minimum of Second Class lower from Ahmadu Bello University or from any other University recognized by the Ahmadu Bello University.

*Graduation Requirement*

The M.Sc. Economics programme has two main elements:

i. Thesis:

ii. Course Work:

The course work takes place in the first two semesters of the programme and consists of core courses and electives. The core courses in the two semesters are: Advanced Microeconomic Theory; Advanced Macroeconomic Theory; Quantitative Techniques; Econometrics and Nigerian Economy. The electives may change from year to year but includes courses such as Public Finance, Development Economics and Monetary Economics and International Economics, Resource Economics (Petroleum, Water, Agriculture, and Environmental etc.). The summary of the courses in first and second semesters are shown below.

*Course Structure*

**Semester 1**

| Course Code | Course Title | Credit Units |
|---|---|---|
| ECON 801 | Advanced Microeconomics I (core) | 3 |
| ECON 803 | Advanced Macroeconomics I (core) | 3 |
| ECON 805 | Quantitative Techniques I (core) | 3 |
| ECON 807 | Nigerian Economy I (core) | 3 |
| ECON 809 | Development Economics I (elective) | 3 |
| ECON 811 | Public Finance I (elective) | 3 |
| ECON 813 | Monetary Economics I(elective) | 3 |
| ECON 815 | Research Methodology (core) | 3 |
| ECON 819 | Econometrics I (core) | 3 |
| ECON 881 &883 | Seminar (1cu/semester) | 3+ |
| ECON 891 &893 | Research/Thesis (4cu/semester) | 12+ |

**Semester II**

| Course Code | Course Title | Credit Units |
|---|---|---|
| ECON 802 | Advanced Microeconomics I (core) | 3 |
| ECON 804 | Advanced Macroeconomics I (core) | 3 |
| ECON 806 | Quantitative Techniques I (core) | 3 |
| ECON 808 | Nigerian Economy I (core) | 3 |
| ECON 810 | Development Economics I (Elective) | 3 |
| ECON 812 | Public Finance I (elective) | 3 |
| ECON 814 | Monetary Economics II (elective) | 3 |
| ECON 816 | Research Methodology (core) | 3 |
| ECON 820 | Econometrics I (core) | 3 |
| ECON 882 & 884 | Seminar (1cu/semester) | 3+ |
| ECON 892 & 894 | Research/Thesis (2cu/semester) | 12+ |

**11.1.3Ph.D. (Economics)**

*Admission Requirements*

i. A good M.Sc. Economics Degree with a minimum of **B average grade**or a minimum CGPA of 3.5 from Ahmadu Bello University or any other University recognized by Ahmadu Bello University. In addition, candidate must satisfy general admission requirements of the Ahmadu Bello University.

*Graduation Requirements*

i. Course Work:
The course work takes place in the first two semesters of the programme and consists of core courses designed to deepen theoretical knowledge and research skills. The Table below shows the courses.

ii. Research/Dissertation
The Dissertation is a requirement for the award of the Ph.D. Degree of the Department. It is a means for (a) demonstrating a capacity for independent research and (b) extending the theoretical, empirical or policy frontiers of Economics.

iii. Examination

iv. Proposal Defense: The Proposal is presented to Department for the purpose of assessment, comments and suggestions.

v. Internal Defense: Candidate presents a synopsis of the Dissertation highlighting problems/objectives; framework/methods and finding for the purpose of assessment,

vi. Comments and suggestions. Candidate benefits from the exercise in preparing the Dissertation for External Examination.

vii. External Examination: The Candidates defends the Thesis before a panel of Internal and External Examiners.

*Course Structure*

**Semester I**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core courses** | | |
| ECON 901 | Issues in Economic Theory I | 3 |
| ECON 903 | Techniques of Research | 3 |
| ECON 981,983,985 | Seminar I, III & V (1cu/semester) | 1 |
| ECON 991,993,995 | Research/Dissertation I, III, V (6cu/semester) | 6 |
| **Specialty courses** | | |
| ECON 905 | Seminar- (In candidate's area of Specialization) | 3 |

**Semester II**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core courses** | | |
| ECON 902 | Issues in Economic Theory | 3 |
| ECON 904 | Techniques of Research | 3 |
| ECON 982,984,986 | Seminar II, IV & VI (1cu/semester) | 1 |
| ECON 992,994,996 | Research/Dissertation II, IV,VI (6cu/semester) | 6 |
| **Specialty courses** | | |
| ECON 906 | Seminar- (In candidate's area of Specialization) | 3 |

## 11.2. DEPARTMENT OF MASS COMMUNICATION

### 11.2.1 M.Sc. Mass Communication

*Admission Requirements*

The following are eligible to apply for admission.

a) Graduates of Ahmadu Bello University or graduates from other recognised Universities who have obtained a Bachelor's Degree in Mass Communication or Journalism with at least a Second Class Lower.
b) Graduates with first degree in other disciplines and who have obtained a postgraduate diploma in Mass Communication or Journalism from a recognized University and with a minimum of Lower Credit grade.

*Course Structure*

The programme is divided into sequences – which are areas of specialization. The following are the main sequences available.

**Semester1**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| MCOM 801 | Broadcast Media | 3 |
| MCOM 803 | Advertising and Public Relation Communication | 3 |
| MCOM 805 | Print Media | 3 |
| MCOM 809 | Development Communication | 3 |
| MCOM 811 | Advanced Research Methods | 3 |
| MCOM 813 | Advanced Theories of Mass Comm. I & II | 3 |

| | |
|---|---|
| MCOM 815 Practicum | 3 |
| MCOM 881, 883 Seminar I & III | 1/Semester |
| MCOM 881, 883 Research/Thesis I & III | 4/Semester |
| MCOM 817 International Communication | |
| MCOM 819 Health Communication | 3 |
| MCOM 821 Independent Study: | 2 |

**Semester 2**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| MCOM 802 | **Broadcast Media** | 3<br>3 |
| MCOM 804 | Advertising and Public Relation Communication | 3 |
| MCOM 806 | Print Media | 3 |
| MCOM 808 | Media Management | 3 |
| MCOM 810 | Development Communication | 3 |
| MCOM 812 | Advanced Research Methods | 3 |
| MCOM 814 | Advanced Theories of Mass Comm. I & II | 3 |
| MCOM 882, 884 | Seminar II & IV | 1/Semester |
| MCOM 892, 894 | Research/Thesis II & IV | 4/Semester |
| MCOM 818 | Political Communication | 2 |
| MCOM 820 | Environmental Communication | 2 |
| MCOM 822 | New Communication Technology | 2 |

Students can major in any of the Specialisations listed as Courses 1, 2, 3, 4, 5, 6, 11, and 12. Students are obliged to take at least ***ONE*** elective course in ***ANY*** other 3 sequences.

***ALL*** students must also take core courses in the following areas***:-***

(i) Advanced Research Methods
(ii) Communication Theory
(iii) Practicum

**11.2.2 Postgraduate Diploma in Mass Communication (PGDMC)**

*Admission Requirement*

Candidates for the Postgraduate Diploma must possess any of the following:

(i) Graduates of Mass Communication or Journalism from a recognized university.
(ii) Holders of the Higher National Diploma with a minimum of Upper Credit pass in Mass Communication or journalism from a recognized polytechnic. Preference will be given to working journalists with at least 3 years post qualification working experience. Candidates seeking admission may need to sit for a qualifying examination.

*Graduation Requirement*

i.) Minimum number of Earned Credit Hours for graduation: 45 Credit Units
ii) Minimum No. of years for graduation: 18 Months
iii) Minimum residency requirement in years, if any: None
iv) Minimum CGPA for graduation: Pass
v) Other requirements (please specify): None.

*Course Structure*

| Code | Title | Credit Unit | Status |
|---|---|---|---|

| | **First Semester** | | |
|---|---|---|---|
| MCOM 701 | Introduction to Mass Communication | 3 | Core |
| MCOM 703 | Principles of Public Relations and Advertisement | 3 | Core |
| MCOM 705 | Introduction to Images/Sound Radio, TV, Photography/ Film | 3 | Core |
| MCOM 707 | Newspaper and Magazine Production | 3 | Core |
| MCOM 709 | Internship | 3 | Core |
| MCOM 711 | Research Methods | 3 | Core |
| MCOM 781 | Seminar (in Relevant area) | 1/Semester | Core |
| MCOM 791 | Research/Project | 3/Semester | Core |
| | **Second Semester** | | |
| MCOM 702 | Introduction to Theories of Mass Communication | 3 | Core |
| MCOM 704 | Media Law and Ethics | 3 | Core |
| MCOM 706 | Introduction to Newspaper Reporting | 3 | Core |
| MCOM 708 | Introduction to Broadcast Journalism | 3 | Core |
| MCOM 710 | Specialist Journalism | 3 | Core |
| MCOM 712 | Introduction to Development Communication | 3 | Core |
| MCOM 792 | Research/Project | 3/Semester | Core |
| MCOM 782 | Seminar | 1/Semester | Core |
| MCOM 714 | Independent Research | 2 | Core |

## Masters in Journalism (MIJ)

The Masters in Journalism (MIJ) programme is a professional Masters Degree programme designed to produce professional work force for the mass media industry in Nigeria. The programme is targeted at journalists, public relations and advertising practitioners and other media practitioners who may need to strengthen their professional qualifications and skills. The programme is posed to serving as a bold attempt at offering professional graduate training in Journalism. The aim of the programme is to enable professional practitioners to develop communication competencies necessary to improve service delivery, management of issues and the capacity to implement communication initiatives for development. The programme will enable the students to learn the critical role that communication plays in human action and choice and how they can utilize it to be more effective in their professional practice.

*Course Duration*
The MIJ is a one academic year part time/ weekend programme comprising of two semesters minimum and maximum period of Four Semesters.

*Admission Requirements*
Candidate seeking for admission in to MIJ programme should posses a University Degree in mass communication or any discipline from ABU Zaria and other recognized institutions. Candidates with Third Class Degree or HND with working experience or postgraduate diploma in mass communication, journalism, public relations, advertising from ABU or other recognized institutions.

*Course Structure*
***First Semester***

**Core Courses:**

| | |
|---|---|
| PMMC801: Communication Research | 3 Credits |
| PMMC803: Advanced News Gathering and Production | 3 Credits |

**Elective Courses:**

| | |
|---|---|
| PMMC807: Peace Journalism | 2 Credits |
| PMMC809: Political Communication and public Opinion | 2 Credits |
| PMMC811: Intercultural Communication | 2 Credits |
| PMMC813: Theories of Communication | 2 Credits |
| PMMC817: Advanced Specialized Reporting | 2 Credits |
| PMMC819: Film Aesthetics | 2 Credits |

***Second Semester***

**Core Courses:**

| | |
|---|---|
| PMMC802: Fundamentals of Media Management | 3 Credits |
| PMMC804: Mass Communication Law & Ethics | 3 Credits |
| PMMC806: Professional Project | 6 Credits |

**Elective Courses:**

| | |
|---|---|
| PMMC808: Advertising and Media Operations | 2 Credits |
| PMMC810: Community Media in Nigeria | 2 Credits |
| PMMC812: Reporting Rural Communities | 2 Credits |
| PMMC814: Media Criticism and Analysis | 2 Credits |
| PMMC816: Strategic Public Relations and Management | 2 credits |
| PMMC818: Advertising Management | 2 credits |

*Graduation Requirements*

A candidate has maximum of four semesters to complete his/her programme. The programme consists of a combination of course work and a professional project. All admitted candidates must pass written examination of all the specified courses offered at the end of each of the two semesters. Also, they should submit a project report soonest at the end of their second semester.

All students are required to complete a total of 36 credits to qualify for the award of MIJ Degree. A breakdown of the credits requirement is as follows:

Three core courses of three credits each and two electives courses of two credits each in the first semester making a total of 15 credits. Three core courses of three credits each and two electives courses of two of two credits each in the second semester making a total of 15 credits. A professional project undertaken by every candidate shall earn six credits. Also, students score in each course, with the exception of the project, will made up of examination and continuous assessment as follows:

| | | |
|---|---|---|
| Examination | - | 60% |
| Continuous Assessment | - | 40% |

A minimum of 75% lecture attendance is required before any student is allowed to sit for the written examination in a particular course he must have attended a minimum of 75% of the lectures in the course. All examination questions and answer scripts shall be subjected to external moderation.

The pass mark which must be obtained in order to earn the course credits shall be 50% in each course. If for any reason other than medical a student fails in more than 1/3 of the credits registered in the course work, the students will be withdrawn from the programme.

**Masters in Strategic Communication (MISC)**

**Introduction**
The Masters in Strategic Communication (MISC) is a professional Masters Degree programme that is designed to produce professional manpower for executing various communication related development projects. These include health, agriculture, science and technology, education, security, commerce and industry etc. The programme is targeted at, but not limited to, mass communication or journalism graduates that are working or seeking jobs in various public and private organizations.

The aim of the programme is to enable professional practitioners to develop communication competencies necessary to improve service delivery, management of issues and the capacity to implement communication initiatives for development. The programme will enable the students to learn the critical role that communication plays in human actions/choices and how they can utilize it to be more effective in their professional practice.

*Course Duration*
The MISC is a one-year part time programme comprising of two semesters and a maximum of four semesters. The programme consists of a combination of course work and a professional project. All admitted candidates must pass written examination of all the specified courses offered at the end of each of the two semesters. Also, they should submit a project report soonest at the end of their second semester.

*Admission Requirements*
Candidates seeking for admission in to MISC programme should possess a good University Degree (lower second class or above) in mass communication and other Social Sciences and Arts disciplines from ABU, Zaria or other recognized institutions with at least three years working experience, preferably in the media industry. Candidates with third class degree or HND (Merit) and postgraduate diploma in mass communication, journalism, public relations, advertising from ABU or other recognized institutions, with at least five years working experience may also be considered.

*Course Structure*

***First Semester***
**Core Courses**

| | |
|---|---|
| PMMC 801: Communication Research | 3 Credits |
| PMMC 819: Theories of Communication | 3 Credits |
| PMMC 821: Development Communication | 3 Credits |

**Electives Courses**

| | |
|---|---|
| PMMC 823: Organizational Communication | 2 Credits |
| PMMC 825: Marketing Communication | 2 Credits |
| PMMC 827: Interpersonal Communication | 2 Credits |
| PMMC 829: Communication in Education | 2 Credits |

| | |
|---|---|
| PMMC 831: Health Communication | 2 Credits |
| PMMC 833: Agricultural Communication | 2 Credits |
| PMMC 835: Intercultural Communication | 2 Credits |

***Second Semester***

**Core Courses**

| | |
|---|---|
| PMMC 820: Legal and Ethical Issues in Communication | 3 Credits |
| PMMC 822: Crisis and Emergency Communication | 3 Credits |
| PMMC 824: Multimedia Communication | 3 Credits |
| PMMC 806: Professional Project | 6 Credits |

**Electives**

| | |
|---|---|
| PMMC 826: Defence and Security Communication | 2 Credits |
| PMMC 828: Communication in Business and Commerce | 2 Credits |
| PMMC 830: Communication in Science and Technology | 2 Credits |
| PMMC 832: Political Communication | 2 Credits |
| PMMC 834: Gender Communication | 2 Credits |

*Graduation Requirements*

All students are required to complete a total of 32 credits to qualify for the award of MISC degree. A breakdown of the credits requirement is as follows:

Three core courses of three credits each and two electives courses of two credits each in the first semester making a total of thirteen credits. Three core courses of three credits each and two electives courses of two credits each in the second semester making a total of thirteen credits. A professional project undertaken by every candidate shall earn six credits. Also, students score in each course, with the exception of the project, will made up of examination and continuous assessment as follows:

| | | |
|---|---|---|
| Examination | - | 60% |
| Continuous Assessment | - | 40% |

Before any students to be allowed to sit for the written examination in a particular course he must have attended a minimum of 75% of the lectures given in the course. All examination questions and answer scripts shall be subjected to external moderation.

The pass mark which must be obtained in order to earn the course credits shall be 50% in each course. If for any reason other than medical or any acceptable reason, a student fails in more than 1/3 of the credits registered in the course work, the students will be withdrawn from the programme.

## 11.3 DEPARTMENT OF POLITICAL SCIENCE

The Department currently runs five different postgraduate programmes as follows:

Postgraduate Diploma in Election Administration(PGDEA)

i. Master in International Affairs and Diplomacy (MIAD)
ii. M.Sc. Political Science
iii. M. Phil International Relations
iv. PhD Political Science

### 11.3.1 PGD Election Admin. (PGDEA) Full-Time

*Admission requirements*

- Bachelor degree of all disciplines with a minimum of Third Class.
- HND (minimum of Upper Credit)
- Any other qualifications that may be acceptable to the PG School of the University.

*Course Structure*

| Code | Title | CreditUnits |
|---|---|---|
| | **First Semester** | |
| PDEA 701 | Introduction to Politics and Political Science | 2 |
| PDEA 703 | Nigerian Government and Politics | 2 |
| PDEA707 | Political and Electoral Research | 2 |
| PDEA 709 | Party Finance and Funding | 2 |
| PDEA 711 | Election Petitions and Tribunals | 2 |
| PDEA 713 | Media and Election | 2 |
| PDEA 715 | Electoral Violence in Nigeria | 2 |
| PDEA 717 | Ethics and Elections | 2 |
| PDEA 719 | Gender and Politics | 2 |
| PDEA 781 | Seminar | 1/Semester |
| PDEA 791 | Research/Project | 3/Semester |
| | **Second Semester** | |
| PDEA 702 | Citizen and the State | 2 |
| PDEA 704 | Pressure Groups and Political Parties | 2 |
| PDEA 706 | Elections and Electoral Systems | 2 |
| PDEA 708 | Electoral Laws and Voters' Registration | 2 |
| PDEA 710 | Electoral Information System | 2 |
| PDEA 712 | Civil Society and Electoral Practice | 2 |
| PDEA 714 | Electoral Malpractice, Voting Patterns and Behaviours | 2 |
| PDEA 716 | Policy Analysis | 2 |
| PDEA 792 | Research/Project | 3/Semester |
| PDEA 782 | Seminar | 1/Semester |

**11.3.2. Masters of International Affairs and Diplomacy (MIAD) (P/T)**

*Course Structure*

**First Semester**

| S/N | Course Code | Course Title | Credit Unit | |
|---|---|---|---|---|
| 1. | MIAD 855 | International Politics: Theory and Practice | 3 | |
| 2. | MIAD 857 | International Economic Relations | 3 | |
| 3. | MIAD 859 | Method and Logic of Political Inquiry | 3 | |
| 4 | MIAD 861 | Contemporary Issues in World Politics | 3 | |
| 5 | MIAD 863 | Foreign Policy Analysis | 3 | |
| 6 | MIAD 881 | Seminar 1 | 1/Semester | |
| 7 | MIAD 891 | Research/Project 1 | 3/Semester | |
| **Second Semester** | | | | |
| 1. | MIAD 854 | Issues in Nigerian Government and Politics | 3 | |
| 2. | MIAD 856 | Nigerian Foreign Policy | 3 | |
| 3. | MIAD 858 | Theory and Practice of Diplomacy | 3 | |
| 4 | MIAD 862 | International Law and Organisations | 3 | |
| 5 | MIAD 864 | The West African Sub-region | 3 | |
| 6 | MIAD 882 | Seminar | 1/Semester | |
| 7 | MIAD 892 | Research/Project | 3/Semester | |
| **Third Semester** | | | | |

| | | | | |
|---|---|---|---|---|
| | MIAD 883<br>MIAD 893 | Seminar<br>Research/Project | 1/Semester<br>3/Semester | |
| | **Electives** | | | |
| 1.<br>2.<br>3. | MIAD 851<br>MIAD 852<br>MIAD 853 | Public Policy Analysis<br>Area Studies<br>Strategic Studies | 3<br>3<br>3 | |

**11.3.3M.Sc. (Political Science)**

*Admission Requirements*

i) A Bachelor's degree in Political Science or International Studies with a First or Second Class Honours from a recognized university.

ii) Five 'O' level credits including English Language, Government/History with at least pass in Mathematics

*Graduation Requirement:*

Successful completion of course work (earn at least 30 credit units) within two semesters; successful proposal defence, internal and external defence (Thesis: 8-12 credit units)

*Course Structure:*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| POLS 801 | International Politics: Theory and Practice | Core 3cu |
| POLS 803 | Research Methods | Core 3cu |
| POLS 805 | Theory of Political Economy | Elective 3cu |
| POLS 807 | Foreign Policy Analysis | Elective 3cu |
| POLS 809 | Classical Political Theory | Core 3cu |
| POLS 813 | Contemporary Political Theory | Core 3cu |
| POLS 815 | International Economic Relations | Elective 3cu |
| POLS 881, 883 | Seminar (1CU/Semester) | 1 |
| POLS 891, 893 | Research/Thesis (4CU/Semester) | 4 |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| | | |
| POLS 802 | Mordent Political Analysis | Core 3cu |
| POLS 804 | International Law and Diplomacy | Elective 3cu |
| POLS 806 | Advanced Comparative Politics | Core 3cu |
| POLS 808 | Public Policy Analysis | Elective 3cu |
| POLS 812 | Issues in Nigerian Government and Politics | Core 3cu |
| POLS 814 | Nigerian Foreign Policy | Core 3cu |
| POLS 882, 884 | Seminar (1CU/Semester) | 1 |
| POLS 892, 894 | Research/Thesis (4CU/Semester) | 4 |

**11.3.4 Master of Philosophy (M.Phil.) International Relations**

*Requirements for Admission*

a) Holders of MIAD with a very good academic standing of average of B grade or CGPA of 3.5 and with first degree in International Studies, Political Science, Public Administration, Economics, History, Sociology, Geography, Law, Business Administration, Mass Communication Education and applied science are eligible to apply.

b) Holders of MSC in Political science, International studies with an academic standing of C or CGPA of = 3.0 may also apply.

c) In addition, prospective candidates shall submit a research proposal and appear for an interview to assess their qualification and research ability.

*Graduation Requirements*

(a) Admitted candidates must register and pass the prescribed course-work
(b) Students must also pass the seminar presentation (i.e. two seminars within the area of research study).
(c) Present a well-researched thesis for external oral examination.

*Admission/Upgrading to PhD*

Successful graduates of M.Phil. may be admitted into PhD programme subject to their academic performance and research standing. The selected students must have a minimum average grade of not less than B or CGPA of 4.0 at M.Phil. level for admission into the PhD programme. Also to be up-graded to the PhD level, an M. Phil student thesis defence must be seen as outstanding with recommendation by the panel of Examiners both internal and external for upgrading to PhD level.

*Course Structure*

**First Semester**

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| POLS821 | Methods of Political Inquiry | Core 3 cu |
| POLS822 | Nigerian Foreign Policy | Core 3 cu |
| POLS823 | Theories of International Relations | Core 3 cu |
| | **Second Semester** | |
| POLS891, 892 | Research/Thesis | 4/Semester |
| POLS 881, 882 | Seminar Papers (two) | 1/Semester |

**Note:**

a) Pass mark for coursework is 50%
b) Any student whose performance falls below 4.0 CGPA and B (60%) in the thesis assessment shall not be eligible for PhD.
c) Additional courses may be recommended based on assessment of the student's deficiencies.

**11.3.4. Ph.D. Political Science**

*Admission Requirements*

Candidates aspiring to read Ph.D. must have M.Sc. degree in Political Science or International Studies.

*Graduation Requirement*

(a) Course Work
The students concerned must have successfully finished their course work. The courses are three and they are run sessionally.

*Course Structure*

| **Course Code** | **Course Title** | **Credit Unit** |
|---|---|---|
| POLS 903 | Research methodology | Core 3 cu |
| POLS 905 | Nigerian state and Politics | Core 3 cu |
| POLS 909 | Classical political Theory | Core 3 cu |
| **Second Semester** | | |
| POLS 991, - 999 | Research/Dissertation | 6/Semester |
| POLS 981 - 989 | Seminar Papers (two) | 1/Semester |

**M.Sc. International Relations**

**Introduction**

The M.Sc. Degree Programme in International Relations is a higher Degree for qualified candidates in the field of International Relations. It is intended to train young and brilliant graduates of International Studies for careers in the academia, private sector and International organizations. It is also intended to be a bridge between the first (B.Sc.) degree and the highest academic degree which is Doctor of Philosophy

*Course Duration*

The M.Sc. programme in International Relations is a six semester – full time program as follows:

i. Course work for two academic semester

ii Dissertation based on empirical research to be defended internally and also by external examination.

*Admission Requirements*

i. A Bachelor Degree in International Studies or Political Science, with a First or Second Class Honours from a recognized University.

ii. Five 'O' Level Credits including English Language, Government/History, and Mathematics.

iii. A Departmental Qualifying examinations (Dissertation

*Course Structure*

First Semester

| **Course Code** | | **Course Title** |
|---|---|---|
| INTS 801 | Core | International Politics: Theory and Practice |
| INTS 803 | Core | Research Method |
| INTS 805 | Core | Theory of Political Economy |
| INTS 807 | Core | Foreign Policy Analysis |
| INTS 809 | Core | Classical Political Theory |
| INTS 811 | Core | Nigerian Foreign Policy |
| INTS 815 | Core | International Economic Relations |
| INTS 881 | Core | Seminar |
| INTS 800 | Core | Research / Dissertation |
| INTS 883 | | ICT – Students should go to Depts where this is being taught |

Second Semester

| **Course Code** | | **Course Title** |
|---|---|---|
| INTS 802 | Core | International Organisations |
| INTS 804 | Core | International Law and Diplomacy |
| INTS 806 | Core | Advanced Comparative Politics |
| INTS 808 | Elective | Public Policy Analysis |
| INTS 810 | Elective | Area Studies |
| INTS 812 | Core | Issues in Nigerian Government and Politics |
| INTS 882 | Core | Seminar |
| INTS 892 | Core | Research / Dissertation |

*Graduation Requirements*

Successful completion of course work (earn at least 30 Credit Units) within two semesters, successful proposal defense, internal and external defense (thesis 12 Credit Units

**Masters in Peace and Conflict Management (MPCM) (Part Time)**

**Introduction**

The Masters Degree Programme in Peace and Conflict Management (MPCM). This will be a two semester part-time programme with emphasis on peace and conflict management.

This programme is designed for those who are engaged in or interested in peace and conflict management. The target candidate will include:

(i) Non-Governmental organizations
(ii) legal practitioners
(iii) security operatives and
(iv) public servants. It is designed as a professional post graduate degree programme.

*Course Duration*
The mode of study will be by the following:
i. Course work as indicated below
ii. A research project based on empirical research on conflict management.

*Admission Requirements*
(i) A Bachelors Degree in any discipline with at least Second Class (Lower) Division
(ii) Five 'O' level credits including English Language and Mathematics.
(iii) Third class with a Post-Graduate Diploma
(iv) HND with upper credit with appropriate Post Graduate Diploma

*Course Structure*

**First Semester**

| Course Code | Status | Title | Credit Unit |
|---|---|---|---|
| MPCM – 801 | Core | Advanced theories of Conflict | 3 |
| PMCM - 803 | Core | Research Methodology | 3 |
| MPCM – 805 | Core | Theories of International Relations | 3 |
| MPCM – 807 | Core | State and Conflict | 3 |
| MPCM – 809 | Elective | Politics and Law in Africa | 3 |
| MPCM – 811 | Elective | African Traditional Approaches to conflict Resolution | 3 |
| MPCM – 813 | Elective | Environment and Conflict | 3 |
| MPCM – 815 | Core | Faith Induced Conflict | 3 |
| MPCM – 800 | Core | Research Project | 6 |
| | | | **30** |

**Second Semester**

| Course Code | Status | Title | Credit Unit |
|---|---|---|---|
| MPCM – 802 | Core | Conflict Management | 3 |
| PMCM - 804 | Core | International Terrorism | 3 |
| MPCM – 806 | Core | International Peace Keeping | 3 |
| MPCM – 808 | Elective | Mass Media and Conflict Management | 3 |
| MPCM – 810 | Cores | Pluralism in Africa | 3 |
| MPCM – 812 | Elective | Political economy of civil Wars | 3 |
| MPCM – 814 | Elective | International Economic Relations | 3 |
| MPCM – 800 | Core | Research Project | 6 |
| **Total** | | | **27** |

*Graduation Requirements*
Successful completion of course work with a minimum of 45 credit units. Candidates are expected to pass all courses including the Research Project.

**Ph.D International Relations (Full Time)**

**Introduction**

The Doctorate programme in International Relations is designed for those with M.Sc. and M. Phil Degrees in Political Science and International Relations. The programme designed to train high level manpower in the academic field of International Relations.

*Course Duration*
The Ph.D programme in International Relations is a six semester (Full-Time) programme as follows:
(i) Course work and Examination
(ii) Seminar Presentations
(iii) Doctoral Thesis based on original research to be subjected to open External oral examination (viva voce)

*Admission Requirements*
(i) Candidates aspiring to read Ph.D International Studies must have M.Sc. Degree in International Relations or Political Science.
(ii) Candidates can also be upgraded after obtain a CGPA of 3.5 in M. Phil Programme of the Department.
*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| INTS 903 | Research Method | Core 3-CU |
| INTS 905 | Nigerian – State and Politics | Core 3-CU |
| INTS 923 | Advanced Theory of International Relations | Core 3-CU |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| INTS 999 | Research Thesis | 6 Semesters |
| INTS 981 | Seminar papers (2) | Core 3-CU |
| INTS 923 | Advanced Theory of International Relations | Core 3-CU |

*Graduation Requirements*

(i) Course Work - Candidates must have finished the course work successfully.
(ii) Candidate must present seminar papers and defend their doctoral theses successfully before a panel of External and International Examiners.

**Post Graduate Diploma in Peace and Conflicts Management (PGDCM) (Part-Time)**

**Introduction**

The nature of human conflicts has profoundly changed as regards form, victims and intensity. Inter-state wars have formed the bulk of major armed conflicts in the past till date. These conflicts have become more prominent in multicultural and multi-ethnic states, particularly Nigeria. The fundamental problem challenging stability, progress and development in most of the multi-ethnic societies is how to achieve peace, and peaceful coexistence. The programme will be relevant in the training of practitioners in the field of conflict management and interested stakeholders in the peace project. This programme is designed to expose the students to the theories of conflicts, conflict management and resolution.

*Admission Requirements*

(i) First Degree in Social Sciences, Humanities and Law- with a minimum of Second Class (Lower) Division.
(ii) Higher National Diploma with a minimum of Merit

*Course Structure*

**First Semester**

| Code | Status | Course Title | Credit Unit |
|---|---|---|---|

| | | | |
|---|---|---|---|
| PDCM 601 | Core | Introduction to Political Science | 3 |
| PDCM 603 | Core | Theories of Conflicts | 3 |
| PDCM 605 | Elective | Culture and Society Africa | 3 |
| PDCM 607 | Core | State and Society in Africa | 3 |
| PDCM 609 | Core | State and National Integrations | 3 |
| PDCM 611 | Elective | International Terrorism | 3 |
| PDCM 613 | Core | International Peace Keeping | 3 |
| PDCM 613 | Core | Pluralism ad Conflicts in Nigeria | 3 |

**Second Semester**

| Code | Status | Course Title | Credit Unit |
|---|---|---|---|
| PDCM 602 | Core | Conflicts Management | 3 |
| PDCM 604 | Core | Nigerian Government and Politics | 3 |
| PDCM 605 | Core | State and Conflicts | 3 |
| PDCM 606 | Core | Identify Conflicts in Africa | 3 |
| PDCM 609 | Elective | Economic and Conflicts | 3 |
| PDCM 610 | Elective | Gender and Conflicts | 3 |
| PDCM 666 | Core | Research | 6 |

*Graduation Requirements*

The Candidates must pass all registered courses and earn a minimum of 30 credit units.

## 11.4 DEPARTMENT OF SOCIOLOGY

*Postgraduate Programmes*

i. Masters in Law Enforcement and Criminal Justice (MLC)
ii. Postgraduate Diploma in Police Administration and Security Management(PGDPASM)
iii. Master of Science Sociology (M.Sc. Sociology)
iv. M.Phil. (Sociology)
v. Doctor of Philosophy Sociology (Ph.D. Sociology)

### 11.4.1 Masters in Law Enforcement and Criminal Justice (MLC)

*Admission Requirements*

Applicants must:

- Hold a minimum of a 2nd Class Bachelor's degree from a recognized University with at least 2 years relevant working experience.
- Hold a 3rd Class Bachelor's degree with a minimum of 2 years relevant working experience.

*Course Structure*

**First Semester**

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| MLCJ 801 | Sociological Thinking in Crime Prevention and Control | Core | 2 |
| MLCJ 803 | The Nature of Crime and Delinquency | Core | 2 |
| MLCJ 805 | The Ethnography and Social Structure of Nigeria | Core | 2 |
| MLCJ 807 | Methods of Research for Crime Prevention and Control | Core | 2 |
| MLCJ 809 | Philosophies of Crime Prevention and Control | Core | 2 |
| MLCJ 881,883 | Seminar (1CU/Semester) | | 1 |
| MLCJ891, 893 | Research/Project (3CU/Semester) | | 3 |
| | | | |
| MLCJ 811 | Victimology and victims of Crime | Elective | 2 |
| MLCJ 813 | Countering Corruption and Organised Crime | Elective | 2 |

**Second Semester**

| Course Code | Course Title | Status | Credit Units |
|---|---|---|---|
| MLCJ 802 | Measurement and Patterns of Crime | Core | 2 |
| MLCJ 804 | Police and Law Enforcement | Core | 2 |
| MLCJ 806 | Courts and the Administration of Justice | Core | 2 |
| MLCJ 808 | Prisons and Alternative Correction of Offenders | Core | 2 |
| MLCJ 810 | Public Policy, Crime Prevention and Control | Core | 2 |
| MLCJ 882,884 | Seminar (1CU/Semester) | | 1 |
| MLCJ 892,894 | Research/Project (3CU/Semester) | | 3 |
| MLCJ 812 | Informal Mechanisms of Crime Control | Elective | 2 |
| MLCJ 814 | Special Categories of Offenders: Women, Children, Rug Offenders | Elective | 2 |
| **MLCJ 879**: | Visits of Observation | Core | 6 |

Students are required to undertake Visits of Observation (6 Credit Units) to various institutions/agencies of the criminal justice system on which they will write comprehensive reports. In addition the student will write a project, also 6+ credit units,which will be both internally and externally examined. Altogether, a student is required to earn a minimum of 36 Credit Unitsbefore graduation.

### 11.4.2 Postgraduate Diploma in Police Administration and Security Management (PGDP).

*Admission Requirements*

1. Participants must be holders of a bachelor's degree from a recognized university with a minimum of third class
2. HND with a minimum of upper credit from recognized Polytechnic.
3. All candidates must have 5 credits including English language a minimum of pass in Math's

*Requirement for Graduation*

Participants in Postgraduate Diploma in Police Administration and security Management (PGDPASM) are required to earn a minimum of 24 Credits Units for graduation.

*Course Structure*

**First Semester Courses:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| 1) | PGDP 701: Theories of Organization and Management | 2 |
| 2) | PGDP 703: Ethnography, Social Structure and Security Management in Nigeria. | 2 |
| 3) | PGDP 705: The Nature of Crime and Delinquency in Security Formations. | 2 |
| 4) | PGDP 707: Methods of Inquiry for Policing and Security Management | 2 |
| 5) | PGDP 709: Military Law I | 2 |
| 6) | PGDP 711: Visit of Observation | 3 |
| 7) | PGDP 713: Physical Security I | 2 |
| 8) | PGDP 715: Physical Protection System I | 2 |
| 9) | PGDP 781: Seminar I | 1/Semester |
| 10) | PGDP 791: Research/Project I | 3/Semester |

**Second Semester Courses:**

| | | |
|---|---|---|
| 1) | PGDP 702: Organization and Leadership in Policing and Security Management | 2 |
| 2) | PGDP 704: Justice, Peace and Conflicts Management | 2 |
| 3) | PGDP 706: Policing and Security Management in a Democracy | 2 |
| 4) | PGDP 708: Military Law II | 2 |
| 5) | PGDP 710: Physical Security II | 2 |
| 6) | PGDP 714: Physical Protection System II | 2 |
| 7) | PGDP 782: Seminar II | 1/Semester |
| 8) | PGDP 792: Research/Project II | 3/Semester |

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**11.4.3 M.SC. Sociology**

*Admission Requirements*

B.Sc. Sociology with a minimum of Second Class Lower Division honours degree with a minimum Cumulative Grade of Average (CGPA) of **3.3**(on a 5 point scale) obtained from a recognized University.

*Areas of Specialization:*

- Criminology
- Development
- Medical Sociology
- Industrial Sociology
- Demography
- Women & Gender Studies
- Urban Sociology

*Courses Structure*

**First Semester**

| Course Code | Title | Credit Units | Status |
|---|---|---|---|
| SOLG 801 | Element of Theory Construction | 3 | Core |
| SOLG 803 | Advanced Research Methods | 3 | Core |
| SOLG 807 | Theoretical Perspectives in Crime | 3 | Elective |
| SOLG 809 | Advanced Theories of Development | 3 | Elective |
| SOLG 813 | Advanced Theories of Illness Behaviour | 3 | Elective |
| SOLG 815 | Sociology of Industry | 3 | Elective |
| SOLG 881, 883 | Seminar I, III | 1/Semester | |
| SOLG 891, 893 | Research/Thesis I, III | 4/Semester | |

**Second Semester**

| Course Code | Title | Credit Units | Status |
|---|---|---|---|
| SOLG 802 | Approaches to Theory & Theory Formation | 3 | Core |
| SOLG 804 | Data Analysis | 3 | Core |
| SOLG 806 | Pre-seminar (for Proposal Writing) | 3 | Elective |
| SOLG 808 | The Nigerian Criminal Justice System | 3 | Elective |
| SOLG 810 | Comparative Development Strategies | 3 | Elective |
| SOLG 814 | Current Trends in Sociology of Mental Health and Illness Behaviour | 3 | Elective |
| SOLG 816 | Industrial and Labour Relation | 3 | Elective |
| SOLG 882, 884 | Seminar II, IV | 1/Semester | |
| SOLG 892, 894 | Research/Thesis II, IV | 4/Semester | |

### 11.4.4 M.Phil. /Ph.D. Sociology

*Admission Requirement:*

MLC with a minimum of Cumulative Grade of Average (CGPA) of **3.5** and a first degree with minimum Second Class Lower Division in Humanities and Social Science from a recognized University

*Area of Specialization:*

- Criminology
- Development
- Medical Sociology
- Industrial Sociology
- Demography
- Women & Gender Studies
- Urban Sociology

### 11.4.5 Ph.D. Sociology

*Admission Requirements*

MLC (+ M.Phil.) with a minimum of Cumulative Grade of Average (CGPA) of **3.5**and a first degree with minimum Second Class Lower Division in Humanities and Social Science from a recognized University

**Or**

M.Sc. (Sociology) with a minimum Cumulative Grade of Average (CGPA) of **3.5** and a first degree in Sociology or relevant areas from a recognized University

*Area of Specialization:*

- Criminology
- Development
- Medical Sociology
- Industrial Sociology
- Demography
- Women & Gender Studies
- Urban Sociology

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| SOLG 901 | Theory Construction | 3 |
| SOLG 903 | The Philosophy of Social Research | 3 |
| SOLG 991, 992, 993 | Research/Dissertation I, III, V | 6/Semester |
| SOLG 981, 983, 985 | Seminar I, III, V | 1/Semester |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| SOLG 902 | Approaches to Theory Construction | 3 |
| SOLG 904 | Triangulation and Report Writing | 3 |
| SOLG992, 994, 996 | Research/Dissertation II, IV, VI | 6/Semester |
| SOLG 982, 984, 986 | Seminar II, IV, VI | 1/Semester |

# CHAPTER 12

# FACULTY OF VETERINARY MEDICINE

*12.1 General Admission Requirements*

To qualify for entrance into the Master of Science (MSc) programme in the Faculty of Veterinary Medicine, the candidate in addition to general University requirements must possess any of the following qualifications:

i. A Doctor of Veterinary Medicine (DVM) with a B score in the relevant area of specialization (where DVM is a prerequisite).
ii. A Bachelor of Veterinary Science (B.V. Sc)degree with a B score in the relevant area of specialization (where DVM is a prerequisite).
iii. A good and relevant Bachelor's degree (where the DVM is not a prerequisite, with a minimum of $2^2$ in fields to be determined by the relevant department).
iv. Any other qualification judged to be equivalent to a DVM and a score equivalent to a B in relevant undergraduate courses.
v. A CGPA of 3.50 or above is required for PhD admission.
vi. Applicants intending to undertake their PhD in related but different specialisation from their Master's degree may be considered for the M.Phil./PhD (applicable to all PhD. Programmes in the Faculty).

*12.2 General graduation Requirements*

a. Course work:

Candidates must have satisfactorily completed the course work and guided research study approved by the Supervisory Committee. A minimum of 25 credit units is required for the MSc and 45 for the PhD excluding credit units for seminar and research.

b. Research study and Thesis/Dissertation presentation:

Candidates must have satisfactorily completed the course work and guided research study approved by the Supervisory Committee to be externally defended it. Master's degree candidates will be required to complete 6 – 12 credit units of research while PhD candidates are to offer 24credit units (6cu/semester) of research.

c. Seminar:

Each postgraduate student is to make a proposal defence and one seminar each semester (1 credit unit/semester) for the duration of his/her study.

## 12. 1 DEPARTMENT OF THERIOGENOLOGY AND PRODUCTION

### 12.1.1 MSc Theriogenology

*Admission and Graduation Requirements*

As for general Faculty admission and graduation requirements.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMTP801 | Theriogenology Clinics I | 3(0 -3) |
| VMTP 803 | Advanced Diagnostic Techniques in Reproduction | 3(2- 1) |
| VMMD845 | Clinical Research Methods and Experimental Design | 2(2 -0) |
| VMTP881, 883, | Seminar (MSc) | 1cu/Semester |
| VMTP891,893 | Research (MSc) | 4 cu/Semester |
| **Specialization Core Courses** | | |
| VMTP805 | Comparative Mammalian Reproduction | 2(2-0) |
| VMTP807 | Veterinary Obstetrics I (Food Animal and Equine) | 3(2 -1) |
| VMTP809 | Reproductive Herd Health Management | 2(1 -1) |
| VMTP811 | Artificial Insemination and Reproductive Biotechnology | 3(2-1) |
| VMTP813 | Veterinary Andrology I (Food Animal and Equine) | 3(2-1) |
| VMAN807 | Advanced Embryology | 2(2 -0) |
| VMTP815 | Reproductive Endocrinology | 2(1-1) |
| VMTP817 | Gynaecology of Domestic Animals I (Food Animals and Equine) | 3(2-1) |
| VMMD829 | Advanced Metabolic Diseases | 2(2-0) |
| **Elective Courses (only suggested but not limited to them)** | | |
| VMTP819,821,823 | Problem Course I (Obstetrics, Gynaecology, Andrology) | 2(2-0) |
| VMSR821 | Exercises in Large Animal Surgery | 3(1 -2) |
| VMMD804 | Advanced Veterinary Economics | 2(2 – 0) |
| VMPA801 | Advanced Histopathology | 3(1 -2) |
| VMPH 805 | Advanced Epidemiology | 3(3 -0) |
| VMTP825 | Theriogenology in Neonates | 2(1 – 1) |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMTP802 | Theriogenology Clinics II | 3(0 -3) |
| VMTP804 | Advanced Techniques in Reproduction II | 3(2 -1) |
| VMTP 806 | Infertility and Sterility | 3(0- 3) |
| VMMD846 | Clinical Research Methods and Experimental Design II | 3(3 -0) |
| VMTP882, 884 | Seminar (MSc) | Icu/Semester |
| VMTP892,894, | Research (MSc) | 4 cu/Semester |
| **Specialization Core Courses** | | |
| VMTP808 | Veterinary Andrology II (Small Animal and Wild life) | 3(2 – 1) |
| VMTP810 | Advances in Reproductive Immunology | 2(2- 0) |
| VMSR813 | Advanced Ultrasonography & CT | 2(1 -1) |
| VMTP812 | Lactation and Udder Health Management | 2(1 -1) |
| VMPY808 | Reproductive Physiology | 3(2-1) |
| VMTP814 | Veterinary Obstetrics II (Small Animal and wild Life) | 3(2-1) |

| | | |
|---|---|---|
| VMTP816 | Reproductive Endocrinology | 2(1 – 1) |
| VMMD802 | Advanced Nutritional Diseases | 2(2 -0) |
| VMTP818 | Gynaecology of Domestic Animals II | 3(2 – 1) |
| VMTP820 | Livestock Production Health | 2(1-1) |
| VMSR802 | Advanced Large Animal Mammary Gland Surgery | 2(1-1) |
| VMAN806 | Advanced Teratology | 2(1 – 1) |
| **Elective Courses (only suggested but not limited to them)** | | |
| VMTP822, 824, 826 | Problem Course II (Obstetrics, Gynaecology, Andrology) | 2(1- 1) |
| VMPA808 | Advanced Comparative Hematology | 3(2-1) |
| VMMD803 | Epidemiology of Major Infectious Diseases | 2(2-0) |
| VMAN804 | Advanced Histology II | 2(1 -1) |
| VMSR811 | Advanced Small Animal Anaesthesia | 3(1-2) |
| VMSR807 | Advanced Large Animal Anaesthesia | 2(0 – 1) |
| VMTP828 | Theriogenology in Geriatrics | 2(1- 1) |

**12.1.2 PhD Theriogenology**

*Admission and Graduation Requirements*

As for general Faculty admission and graduation requirements.

*Course Structure*

**First Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMTP981, 983, 985, 987, 989 | Seminar (PhD) | 1cu/Semester |
| VMTP 991,993,995,997,999 | Research/Dissertation | 6 cu/Semester |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Departmental Core Courses** | | |
| VMTP982, 984, 986, 988 | Seminar (PhD) | Icu/Semester |
| VMTP992,994,996,998 | Research/Dissertation | 6cu/Semester |

## 12.2 DEPARTMENT OF VETERINARY ANATOMY

**12.2.1 M.Sc.Veterinary Anatomy**

*Admission requirement*

Admission into Veterinary Anatomy for both M.Sc./PhD degree courses is subject to fulfilling all admission requirements

*Graduation requirement*

Candidates must fulfill all the necessary postgraduate requirements needed for graduation.

*Course Structure*

**Semester I**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| VMAN 801 | Advanced Gross Anatomy I | 2 |
| VMAN 803 | Advanced Comparative Gross Anatomy I | 2 |
| VMAN 805 | Advanced Histology I | 2 |
| VMAN 807 | Advanced Embryology | 2 |
| VMAN 809 | Radiological Anatomy | 2 |
| VMAN 811 | Anatomical Techniques | 2 |
| VMAN 813 | Electron Microscopy | 2 |
| VMAN 815 | Histological & Histochemical Techniques | 2 |
| VMAN 817 | Cell Culture | 2 |
| VMAN 819 | Embalming & Maceration Techniques | 2 |
| VMAN 881,883 | M.Sc. Seminar | 1/Semester |
| VMAN 891,893 | M.Sc. Research | 4/Semester |

**Semester II**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| VMAN 800 | Advanced Gross Anatomy II | 2 |
| VMAN 802 | Advanced Comparative Gross Anatomy II | 2 |
| VMAN 804 | Advanced Histology II | 2 |
| VMAN 806 | Advanced Teratology | 2 |
| VMAN 808 | Advanced Neuroanatomy | 3 |
| VMAN 810 | Advanced Avian & Fish Anatomy | 2 |
| VMAN 812 | Ultrastructure | 2 |
| VMAN 814 | Photography & Micrography | 2 |
| VMAN 816 | Problems in Anatomy | 2 |
| VMAN 882,884 | M.Sc. Seminar | 1/Semester |
| VMAN 892,894 | M.Sc. Research | 4/Semester |

**12.2.2 PhD. Veterinary Anatomy**

*Admission requirement*

Admission into PhD. Veterinary Anatomy is subject to fulfilling all admission requirements

*Graduation requirement*

Candidates must fulfill all the necessary postgraduate requirements needed for graduation.

*Course Structure*

**Semester I**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| VMAN 981-989 | PhD Seminar | 1/Semester |
| VMAN 991-999 | PhD Research | 6/Semester |

**Semester II**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| VMAN 982-988 | PhD Seminar | 1/Semester |
| VMAN 982-988 | PhD Research | 6/Semester |

## 12.3. DEPARTMENT OF VETERINARY MEDICINE

*Admission and Graduation Requirements:*

As for Faculty Requirements.

**12.3.1 Master in Tropical Veterinary Medicine (MTVM)**
*Admission Requirement:*
As for Faculty Requirements.

*Graduation Requirements:*
As for Faculty Requirement

*Course Structure:*
**Semester 1**

| Course Code | Course Code | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 805 | Advanced Clinics I | 3(0-3) |
| VMMD 839 | Diagnostic Techniques | 3(3-0) |
| VMMD 845 | Clinical Res. Methods & Exp. Design I | 3(3-0) |
| VMMD 881 | Seminar I | 1/Semester |
| VMMD 891 | Research Project I | 3/Semester |
| **Specialization Core Courses** | | |
| VMMD 801 | Ruminant Internal Medicine | 2 (2-0) |
| VMTP 807 | Veterinary Obstetrics (Food Anim. & Equine) | 3 (2-1) |
| VMMD 823 | Avian Immunology & Vaccination | 2 (2-0) |
| VMMD 825 | Rural Poultry Health & Production | 2 (2-0) |
| VMMD 829 | Advanced Metabolic Diseases | 2 (2-0) |
| VMMD 843 | Topics in Infectious Diseases of Livestock I | 2 (2-0) |
| VMPA 803 | Advanced Epidemiology | 3 |
| VMSR 809 | Advanced Radiology | 2(1-1) |
| VMSR 813 | Advanced Ultrasonography& CT Scan | 2(1-1) |
| **Elective Courses** | | |
| VMPH 801 | Biometry | 3 |
| VMPA 801 | Advanced Histopathology | 3 |
| **Total Credit Units** | | **35** |

**Second Semester**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 804 | Advanced Veterinary Economics | 2(2-0) |
| VMMD 822 | Clinical Immunology | 3(3-0) |
| VMMD 842 | Advanced Clinics II | 3(0-3) |
| VMMD 846 | Clinical Research Methods & Experimental Design II | 3(3-0) |
| VMMD 882 | Seminar II | 1/Semester |
| VMMD 892 | Research Project II | 3/Semester |
| **Specialization Core Courses** | | |
| VMMD 800 | Topics in Infec. Dis. of Livestock II | 2 (2-0) |
| VMMD 802 | Nutritional Diseases | 2 (2-0) |
| VMMD 806 | Advanced Monogastric Internal Medicine | 2 (2-0) |
| VMMD 810 | Advanced Herd Health Management | 3(0-3) |
| VMMD 814 | Canine & Feline Infectious Diseases | 2(2-0) |
| **Elective Courses** | | |
| VMMD 824 | Advanced Avian Diseases | 2 (2-0) |
| VMMD 826 | Ethnoveterinary Medicine | 2 (2-0) |

| | | |
|---|---|---|
| **Total** | | **25** |

**12.3.2 M.Sc. Avian Medicine and 12.3.3 Ph.D. Avian Medicine**

*Admission Requirement:*
As for Faculty Requirements.

*Graduation Requirements:*
As for Faculty Requirement

*Course Structure*
**Semester 1:**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 805 | Advanced Clinics I | 3(0-3) |
| VMMD 839 | Diagnostic Techniques | 3(3-0) |
| VMMD 845 | Clinical Res. Methods & Exp. Design I | 3(3-0) |
| VMMD 881, 883, | MSc Seminar I & III | 1/Semester |
| VMMD 981, 983, 985, 987, 989 | PhD Seminar 1, III, V, VII & IX | 1/Semester |
| VMMD 891, 893, 985 | MSc Research I, III, V | 4/Semester |
| VMMD 991, 993, 995, 997, 999 | PhD Research I, III, V, VII & IX | 6/Semester |
| **Specialization Core Courses** | | |
| VMMD 823 | Avian Immunology & Vaccination | 2 (2-0) |
| VMMD 825 | Rural Poultry Health & Production | 2 (2-0) |
| VMPA 807 | Advanced Poultry Pathology | 3 |
| ANSC 809 | Poultry Production | 3 |
| VMPH 803 | Advanced Epidemiology | 3 |
| VMPH 801 | Biometry | 3 |
| VMMV 815 | Advanced Virology | 3(2-3) |
| **Elective Courses** | | |
| VMMD 829 | Metabolic Diseases | 2 (2-0) |
| VMPH 767 | Risk Assessment & Management | 2 |
| VMPA 801 | Advanced Histopathology | 3 |
| VMMD 859 | Problems | 2(2-0) |
| **Total Credit Units** | | **36** |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 804 | Veterinary Economics | 2(2-0) |
| VMMD 842 | Advanced Clinics II | 3(0-3) |

| | | |
|---|---|---|
| VMMD 822 | Clinical Immunology | 3(3-0) |
| VMMD 846 | Clinical Research Methods & Experimental Design II | 3(3-0) |
| VMMD 882 884, 886 | MSc Seminar II, IV & VI | 1/Semester |
| VMMD 982 984, 986, 988 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMMD 882 884, 886 | MSc Research II, IV & VI | 4/Semester |
| VMMD 992, 994, 996, 998 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Specialization Core Courses** | | |
| VMMD 824 | Advanced Avian Diseases | 2 (2-0) |
| VMPA 808 | Advanced Comparative Haematology | 3 |
| ANSC 814 | Monogastric Nutrition | 3 |
| VMMD 830 | Poultry Nutrition | 2 (2-0) |
| VMMD 834 | Poultry Biosecurity | 3(2-1) |
| VMMD 836 | Poultry Farm Internship | 3 (0-3) |
| VMAN 806 | Advanced Avian Anatomy | 2 |
| **Elective Courses** | | |
| VMMD 826 | Ethnoveterinary Medicine | 2 (2-0) |
| VMMD 816 | Clinical Oncology | 3(3-0) |
| VMMD 802 | Advanced Nutritional Diseases | 2 (2-0) |
| VMMD 840 | Problems | 2(2-0) |
| **Total Credits Units** | | **37** |

**12.3.4 M.Sc. Food Animal Medicine and 12.3.5. Ph.D. Food Animal Medicine**
*Admission Requirement:*
As for Faculty Requirements.

*Graduation Requirements:*
As for Faculty Requirement

*Course Structure*
**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 805 | Advanced Clinics I | 3(0-3) |
| VMMD 839 | Diagnostic Techniques | 3(3-0) |
| VMMD 845 | Clinical Res. Methods & Exp. Design I | 3(3-0) |
| **Specialization Core Courses** | | |
| VMMD 843 | Topics in Infectious Diseases of Livestock I | 2 (2-0) |
| VMMD 829 | Metabolic Diseases | 2 (2-0) |
| VMMD 819 | Clinical Gastroenterology | 2 (2-0) |
| VMMD 801 | Ruminant Internal Medicine | 2 (2-0) |
| VMMD 803 | Epid of Major Infect. Dis. of Livestock in Nigeria. | 2(2-0) |
| VMMD 810 | Advanced Herd Health Management | 3(3-0) |
| VMTP 807 | Veterinary Obstetrics (Food Anim. & Equine) | 3 (2-1) |
| VMPH 801 | Biometry | 3 (3-0) |
| VMMD 881, 883, | MSc Seminar I & III | 1/Semester |
| VMMD 981, 983, 985, 987, 989 | PhD Seminar 1, III, V, VII & IX | 1/Semester |

| | | |
|---|---|---|
| VMMD 891, 893, | MSc Research I, III, V | 4/Semester |
| VMMD 991, 993, 995, 997, 999 | PhD Research I, III, V, VII & IX | 6/Semester |
| **Elective Courses** | | |
| VMMD 859 | Problems | 2(2-0) |
| VMPH 803 | Advanced Epidemiology | 3 |
| VMPA 801 | Advanced Histopathology | 3 |
| VMMD 807 | Veterinary Extension & Communication | 2(1-1) |
| **Total Credit Units** | | **37** |

**Semester 2**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 804 | Veterinary Economics | 2(2-0) |
| VMMD 822 | Clinical Immunology | 3(3-0) |
| VMMD 842 | Advanced Clinics II | 3(0-3) |
| VMMD 846 | Clinical Research Methods & Experimental Design II | 3(3-0) |
| VMMD 882, 884, 886 | MSc Seminar II, IV & VI | 1/Semester |
| VMMD 982, 984, 986, 988 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMMD 882, 884, 886 | MSc Research II, IV & VI | 4/Semester |
| VMMD 992, 994, 996, 998 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Specialization Core Courses** | | |
| VMMD 800 | Topics in Infectious Diseases of Livestock II | 2 (2-0) |
| VMMD 802 | Nutritional Diseases | 2 (2-0) |
| VMMD 806 | Monogastric Internal Medicine | 2 (2-0) |
| VMMD 826 | Ethnoveterinary Medicine | 2 (2-0) |
| VMMD 810 | Advanced Herd Health Management | 3(0-3) |
| VMPA 808 | Advanced Comparative Haematology | 3 |
| **Elective Courses** | | |
| VMMD 816 | Advanced Clinical Oncology | 3(3-0) |
| VMMD 858 | Problems | 2(2-0) |
| **Total Credits Units** | | **29** |

**12.3.6 M.Sc. Equine Medicine and 12.3.7 Ph.D. Equine Medicine**

*Admission Requirement:*

As for Faculty Requirements.

*Graduation Requirements:*

As for Faculty Requirement

*Course Structure*

**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 805 | Advanced Clinics I | 3 (0-3) |
| VMMD 839 | Diagnostic Techniques | 3 ( 1 – 2) |
| VMMD 845 | Clinical Research Methods and Experimental design I | 3(3 – 0) |
| VMMD 881, 883, | MSc Seminar I & III | 1/Semester |

| | | |
|---|---|---|
| VMMD 981, 983, 985, 987, 989 | PhD Seminar 1, III, V, VII & IX | 1/Semester |
| VMMD 881, 883, | MSc Research I, III, V | 4/Semester |
| VMMD 991, 993, 995, 997, 999 | PhD Research I, III, V, VII & IX | 6/Semester |
| **Specialization Core Courses** | | |
| VMTP 807 | Veterinary Obstetrics I (Food Anim. & Equine) | 3 (2 – 1) |
| VMMD 819 | Clinical Gastroenterology | 2 (2-0) |
| VMTP 809 | Reproductive Herd Health Management | 3(3 – 0) |
| VMMD 829 | Metabolic Diseases | 2 (2 – 0) |
| VMTP 811 | Artificial Insemination and Reproductive Biotechnology | 2 (1 – 1) |
| VMMD 867 | Topics in Equine Lameness | 2 (2 – 0) |
| VMPH 801 | Biometry | 3 (3-0) |
| VMSR 809 | Advanced Radiology | 2 (1-1) |
| VMSR 813 | Advanced Ultrasono & CT Scan | 2 (1-1) |
| **Elective Courses** | | |
| VMMD 859 | Problems | 2 (2 – 0) |
| VMSR 821 | Exercises in Large Animal Surgery | 2 (0 –2) |
| VMPE 801 | Advanced helminthology | 3 |
| **Total Credits Units** | | **44** |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Departmental Core Courses** | | |
| VMMD 804 | Advanced Veterinary Economics | 2(2-0) |
| VMMD 822 | Clinical Immunology | 3(3-0) |
| VMMD 842 | Advanced Clinics II | 3(0-3) |
| VMMD 846 | Clinical Research Methods & Experimental Design II | 3(3-0) |
| VMMD 882, 884, | MSc Seminar II, IV & VI | 1/Semester |
| VMMD 982, 984, 986, 988 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMMD 882, 884, | MSc Research II, IV & VI | 4/Semester |
| VMMD 992, 994, 996, 998 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Specialization Core Courses** | | |
| VMMD 802 | Nutritional Diseases | 2(2-0) |
| VMMD 806 | Monogastric Internal Medicine | 2(2-0) |
| VMMD 810 | Advanced Herd Health Management | 3(3-0) |
| VMPA 868 | Advanced Comparative Haematology | 3 |
| VMMD 862 | Equine Medicine | 3(3-0) |
| VMPE 802 | Advanced Protozoology | 3 |
| **Elective Courses** | | |
| VMMD 816 | Advanced Clinical Oncology | 3(1-2) |
| VMMD 858 | Problems | 2(2-0) |
| **Total Credits Units** | | **31** |

**12.3.8 M.Sc. Aquatic Medicine**

*Admission Requirement:*
As for Faculty Requirements.

*Graduation Requirements:*
As for Faculty Requirement

*Course Structure*

**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 805 | Advanced Clinic I | 3 |
| VMMD 845 | Clinical Res. Methods & Experimental Design I | 3 |
| VMMD 839 | Advanced Diagnostic Techniques | 3 |
| **General Courses** | | |
| VMMD 881,885,887. | M.Sc. Seminar I, III, V | 1/ semester |
| VMMD 891,893,895. | M.Sc. Research/Thesis I, III & V | 4/semester |
| **Course Code** | **Course Title** | **Credit Units** |
| ZOOL 847 | Ecology of Aquatic Environment | 2 |
| VMMD 851 | Aquatic Animal Disease & Ecology Management | 3 |
| VMMD849 | Aquatic Animal Restraint and Transportation | 2 |
| VMMD837 | Aquatic Medicine | 2 |
| **Elective Courses** | | |
| MSCT | Ecotourism | 2 |
| VMPH 803 | Advanced Epidemiology | 3 |
| ZOOL 841 | Fisheries Biology | 2 |
| ZOOL 843 | Fish Culture | 2 |
| ZOOL 845 | Fisheries Management | 2 |
| VMPH 767 | Risk Assessment & Management | 2 |
| | **Total** | **34** |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 804 | Veterinary Economics | 3 |
| VMMD 822 | Clinical Immunology | 2 |
| VMMD 842 | Advanced Clinics II | 3 |
| VMMD 846 | Clinical Res. Methods & Experimental Design II | 3 |
| **General Courses** | | |
| VMMD 882,884,887. | M.Sc. Seminar II, IV & VI | 1/ semester |
| VMMD 891,893,895. | M.Sc. Research/Thesis II, IV & VI | 4/semester |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 852 | Fish Biosecurity | 2 |
| ZOOL 842 | Fish Pathology | |
| VMMD 850 | Pisciculture | 3 |
| VMMD 844 | Internship in Aquaculture | 4 |
| **Electives** | | |
| VMPA 801 | Advanced Comparative Haematology | 3 |
| GEEM 814 | Environmental Risk Assessment | 3 |
| ZOOL 837 | Environmental Adaptation in Animals | 2 |
| | **Total** | **32** |

**12.3.9. M.Sc. Wildlife Medicine**

*Admission Requirement:*
As for Faculty Requirements.

*Graduation Requirements:*
As for Faculty Requirement

*Course Structure*
**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 805 | Advanced Clinic I | 3 |
| VMMD 845 | Clinical Res. Methods & Experimental Design I | 3 |
| VMMD 839 | Advanced Diagnostic Techniques | 3 |
| **General Courses** | | |
| VMMD 881,885,887. | M.Sc. Seminar | 1/ semester |
| VMMD 891,893,895. | M.Sc. Research/Thesis | 4/semester |
| **Course Code** | **Course Title** | **Credit Units** |
| ZOOL 806 | Ecology of Tropical Ecosystems | 2 |
| ZOOL 807 | Wild Life Conservation and Management | 2 |
| VMMD 851 | Wildlife/Zoo Disease & Ecology Management | 3 |
| VMMD 849 | Wildlife/Zoo Animal Capture, Restraint and Transportation | 2 |
| VMMD 837 | Wildlife/Zoo Diseases | 2 |
| BIOL811 | Culture & Maintenance of Lab Animals, Zoological Gardens and Museums | 2 |
| **Elective Courses** | | |
| VMMD 831 | Ecotourism** | 2 |
| VMPH 803 | Advanced Epidemiology | 3 |
| VMPH 767 | Risk Assessment & Management | 2 |
| VMMV 815 | Advanced Virology | 3 |
| VMSR 815 | Anaesthesia in Exotic Animals | 2 |
| VMSR 809 | Advanced Radiology | 2 |
| | **Total** | **35** |

****See Urban & Regional Planning PG programmes!!!!!!**

**Second Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 804 | Veterinary Economics | 3 |
| VMMD 822 | Clinical Immunology | 2 |
| VMMD 842 | Advanced Clinics II | 3 |
| VMMD 846 | Clinical Res. Methods & Experimental Design II | 3 |
| **General Courses** | | |
| VMMD 882,884,886. | M.Sc. Seminar | 1/ semester |
| VMMD 892,894,896. | M.Sc. Research/Thesis | 4/semester |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 848 | Wildlife/Zoo Medicine | 2 |
| VMMD 844 | Internship in Wildlife/Zoo | 4 |
| VMPH 806 | Viral Zoonosis | 2 |
| **Electives** | | |
| VMPA 801 | Advanced Comparative Haematology | 3 |

| | | |
|---|---|---|
| GEEM 814 | Environmental Risk Assessment | 3 |
| ZOOL 837 | Environmental Adaptation in Animals | 2 |

**12.3.10. M.Sc. Small Animal Dermatology**

*Admission Requirement:*
As for Faculty Requirements.

*Graduation Requirements:*
As for Faculty Requirement

*Course Structure*
**Semester 1:**
**First Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 805 | Advanced Clinic I | 3 |
| VMMD 845 | Clinical Res. Methods & Experimental Design I | 3 |
| VMMD 839 | Advanced Diagnostic Techniques | 3 |
| **General Courses** | | |
| VMMD 881,885,887. | M.Sc. Seminar | 1/ semester |
| VMMD 891,893,895. | M.Sc. Research/Thesis | 4/semester |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 827 | Canine and Feline Metabolic and Nutritional Diseases | 2 |
| VMMD 819 | Clinical Gastroenterology | 2 |
| VMPE 715 | Immunology of parasites | 2 |
| VMPP 801 | Clinical Pharmacology | 3 |
| VMPM 807 | Zoonosis (Parasitic) | 2 |
| VMPP 803 | Environmental Toxicology | 2 |
| VMPP 815 | Endocrine Physiology | 4 |
| VMPM805 | Nutritional Pathology | 3 |
| VMPM801 | Advanced Histopathology | 3 |
| VMSM811 | Plastic and Reconstructive Surgery | 3 |
| VMPH 801 | Biometry | 3 |
| **Elective Courses** | | |
| VMPP 805 | Cellular Physiology | 2 |
| VMPM 809 | Advanced Clinical Chemistry | 3 |
| PHCL 809 | Antibacterial chemotherapy | 2 |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 804 | Veterinary Economics | 3 |
| VMMD 822 | Clinical Immunology | 2 |
| VMMD 842 | Advanced Clinics II | 3 |
| VMMD 846 | Clinical Res. Methods & Experimental Design II | 3 |
| **General Courses** | | |
| VMMD 882,884,887. | M.Sc. Seminar | 1/ semester |
| VMMD 891,893,895. | M.Sc. Research/Thesis | 4/semester |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 816 | Clinical Oncology | 3 |
| VMMD 818 | Molecular Medicine | 2 |
| VMMD 822 | Clinical Immunology | 3 |
| VMPE 800 | Advanced Entomology | 3 |
| VMPM810 | Exfoliative Cytology | 2 |

| | | |
|---|---|---|
| VMAN 802 | Advanced Histology | 4 |
| VMPM 804 | Oncology | 3 |
| PHCL 804 | Antineoplastic Chemotherapy | 2 |
| VMMD814 | Canine and feline Infection Diseases | 3 |
| **Electives** | | |
| VMAN 810 | Photography and photo-micrography | 2 |
| VMAN 808 | Electron Microscopy and ultra-structure | 4 |
| VMPM 808 | Advanced Comparative Haematology | 3 |

**12.3.11. M.Sc. Small Animal Infectious Diseases and 12.3.12 PhD. Small Animal Infectious Diseases**

*Admission Requirement:*

As for Faculty Requirements.

*Graduation Requirements:*

As for Faculty Requirement

*Course Structure*

**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 805 | Advanced Clinic I | 3 |
| VMMD 845 | Clinical Res. Methods & Experimental Design I | 3 |
| VMMD 839 | Advanced Diagnostic Techniques | 3 |
| **General Courses** | | |
| VMMD 881,885,887. | MSc Seminar I & III | 1/Semester |
| VMMD 981,985,987. | PhD Seminar 1, III, V, VII & IX | 1/Semester |
| VMMD 891,893,895. | MSc Research I, III, V | 4/Semester |
| VMMD 991,993, 995 | PhD Research I, III, V, VII & IX | 6/Semester |
| | | |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 827 | Canine and feline metabolic and Nutritional Diseases | 2 |
| VMMD 801 | Chemical Pharmacology | 3 |
| VMPH 803 | Advanced Epidemiology | 3 |
| VMPH 815 | Introduction to Molecular Genetics | 3 |
| VMPH 701 | Zoonosis | 3 |
| VMPM 809 | Advanced Clinical Chemistry | 3 |
| VMPE 801 | Advanced Haematology | 3 |
| VMPE 803 | Immunology parasites | 2 |
| VMMD821 | Canine and feline Gastroenterology | 2 |
| VMMD815 | Canine and feline Urology | 2 |
| VMMD807 | Veterinary Extension and Communication | 2 |
| VMPH 801 | Biometry | 3 |
| **Elective Courses** | | |
| VMPP 809 | Gastroenterology | 3 |
| PHCL 809 | Antibacterial Chemotherapy | 2 |
| VMPE 711 | Diagnostic Techniques in Parasitology | 2 |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 804 | Veterinary Economics | 3 |
| VMMD 822 | Clinical Immunology | 2 |
| VMMD 842 | Advanced Clinics II | 3 |
| VMMD 846 | Clinical Res. Methods & Experimental Design II | 3 |

| **General Courses** | | |
|---|---|---|
| VMMD 882,884,887. | MSc Seminar II, IV & VI | 1/Semester |
| VMMD 982,984,987. | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMMD 891,893,895. | MSc Research II, IV & VI | 4/Semester |
| VMMD 991,993, 995 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Specialization Core Courses** | | |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 814 | Canine and Feline Infectious Diseases | 3 |
| VMMD818 | Molecular Medicine | 2 |
| VMPH 802 | Advanced Comparative Haematology | 3 |
| VMPM 816 | Advanced Virocology | 3 |
| VMPH 812 | Advanced Pathogenic Bacteriology | 3 |
| VMPM 800 | Mechanism of Disease | 3 |
| VMPE 800 | Advanced Entomology | 3 |
| VMPE 802 | Advanced Protozoology | 3 |
| BCHM 804 | Metabolic Regulation | 3 |
| VMPH 816 | Molecular Epidemiology | 2 |
| **Elective Courses** | | |
| VMPE 710 | Parasitic Zoonosis/Emerging Parasitic Diseases | 2 |
| VMPE 726 | Biological Control of Vectors | 4 |

**12.3.13 M.Sc. Small Animal Internal Medicine and 12.3.14 PhD. Small Animal Internal Medicine**

*Admission Requirement:*

As for Faculty Requirements.

*Graduation Requirements:*

As for Faculty Requirement

*Course Structure*

**Semester 1:**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 805 | Advanced Clinic I | 3 |
| VMMD 845 | Clinical Res. Methods & Experimental Design I | 3 |
| VMMD 839 | Advanced Diagnostic Techniques | 3 |
| **General Courses** | | |
| VMMD 881,885,887. | MSc Seminar I & III | 1/Semester |
| VMMD 981,985,987. | PhD Seminar 1, III, V, VII & IX | 1/Semester |
| VMMD 891,893,895. | MSc Research I, III, V | 4/Semester |
| VMMD 991,993, 995 | PhD Research I, III, V, VII & IX | 6/Semester |
| **Course Code** | **Course Title** | **Credit Unit** |
| VMMD 807 | Veterinary Extension and Communication | 2 |
| VMMD 815 | Canine and Feline Urology | 2 |
| VMMD 819 | Clinical Gastroenterology | 2 |
| VMMD 821 | Canine and Feline Gastroenterology | 2 |
| VMMD 827 | Canine and Feline Metabolic and Nutritional Diseases | 2 |
| VMPH 815 | Introduction to Molecular Genetics | 3 |
| VMPH 801 | Biometry | 3 |
| VMPM 809 | Advanced Clinical Chemistry | 3 |
| VMPP 801 | Clinical Pharmacology | 3 |
| **Elective Courses** | | |
| VMPH 803 | Advanced Systemic Pathology I | 4 |

| | | |
|---|---|---|
| VMPP 809 | Gastroenterology | 3 |
| VMPP 815 | Endocrine Physiology | 4 |

**Second Semester**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| VMMD 804 | Veterinary Economics | 3 |
| VMMD 822 | Clinical Immunology | 2 |
| VMMD 842 | Advanced Clinics II | 3 |
| VMMD 846 | Clinical Res. Methods & Experimental Design II | 3 |
| **General Courses** | | |
| VMMD 882,884,887. | MSc Seminar II, IV & VI | 1/Semester |
| VMMD 982,984,987. | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMMD 891,893,895. | MSc Research II, IV & VI | 4/Semester |
| VMMD 991,993, 995 | PhD Research II, IV, VI & VIII | 6/Semester |
| Total Credits | | |
| **Course Code** | **Course Title** | **Credit Units** |
| VMMD 808 | Canine and Feline Cardiology | 3 |
| VMMD 814 | Canine and Feline Infections Diseases | 3 |
| VMMD 816 | Clinical Oncology | 3 |
| VMMD 818 | Molecular Medicine | 2 |
| VMMD 808 | Advanced Comparative Haematology | 3 |
| BCHM 804 | Metabolic Regulation | 3 |
| VMPH 802 | Principles of Epidemiology | 3 |
| VMPH 816 | Molecular Epidemiology | 2 |
| **Elective Courses** | | |
| VMPM 804 | Oncology | 3 |
| VMPM 800 | Mechanism of Diseases | 3 |

The student is expected to conduct research and produce a thesis in any of the sub-specialties of Internal medicine that is cardiology, gastroenterology, urology or endocrinology.

## 12.4 DEPARTMENT OF VETERINARY MICROBIOLOGY

*Departmental Postgraduate Programmes*

**12.4.1 MSc. Veterinary Microbiology** (Veterinary Bacteriology; Veterinary Immunology; Veterinary Mycology or Veterinary Virology)

**12.4.2 Ph.D. Veterinary Microbiology** (Veterinary Bacteriology; Veterinary Immunology; Veterinary Mycology or Veterinary Virology)

*Admission and Graduation requirements:*
As for Faculty requirement.

*Course Structure*
**Semester 1**

| **Course Code** | **Course Title** | **Credit Units** |
|---|---|---|
| **Compulsory Departmental Courses** | | |
| VMMB 817 | Advanced Diagnostic Microbiology | 3(1-6) |
| VMMB 881, 883, 885 | MSc Seminar I, III & V | 1/Semester |
| VMMB 981, 983, 985, 987 | PhD Seminar 1, III, V, VII | 1/Semester |
| VMMB 891, 893, 895 | MSc Research I, III, V | 4/Semester |

| | | |
|---|---|---|
| VMMB 991, 993, 995, 997 | PhD Research I, III, V & VII | 6/Semester |
| VMMB 815 | Advanced Virology | 3(2-3) |
| **Elective Courses** | | |
| VMMB 819 | Problems in Advanced Pathogenic Bacteriology | 2(0-6) |
| VMMB 821 | Problems in Advanced Virology | 2(0-6) |
| VMPH 801 | Biometry | 3(3-0) |

**Semester 2**

| Course Code | Course Title | Credit Units |
|---|---|---|
| **Core /Compulsory Departmental Courses** | | |
| VMMB 812 | Advanced Pathogenic Bacteriology | 3(2-3) |
| VMMB 822 | Advanced Diagnostic Bacteriology | 3(2-3) |
| VMMB 882, 884, 886 | MSc Seminar II, IV & VI | 1/Semester |
| VMMB 982, 984, 986, 988 | PhD Seminar I1,IV, VI & VIII | 1/Semester |
| VMMB 882, 884, 886 | MSc Research II,IV & VI | 4/Semester |
| VMMB 992, 994, 996, 998 | PhD Research II,IV, VI & VIII | 6/Semester |
| **Specialization Courses** | | |
| VMMB 814 | Advanced Mycoplasmology | 3(2-3) |
| VMMB 816 | Advanced Immunology | 3(2-3) |
| **Elective** | | |
| VMPH 802 | Epidemiology | 3(3-0) |
| VMPH 806 | Viral Zoonosis | 2(2-0) |

## 12. 5 DEPARTMENT OF VETERINARY PARASITOLOGY & ENTOMOLOGY

### 12.5.1 MSc Veterinary Helminthology; 12.5.2 M.Sc. Veterinary Protozoology; 12.5.3M.Sc.Veterinary Entomology

*Admission and Graduation Requirements*

As for the Faculty of Veterinary Medicine requirement.

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core Departmental Courses** | | |
| VMPE 801 | Advanced Helminthology (for all programmes) | 3 |
| VMPE 881, 883, | MSc Seminar I, III & V | 1/Semester |
| VMPE 981, 983, 985, 987, 989 | PhD Seminar 1, III, V, VII | 1/Semester |
| VMPE 891, 893, 985 | MSc Research I, III, V | 4/Semester |
| VMPE 991, 993, 995, 997, 999 | PhD Research I, III, V & VII | 6/Semester |
| **Core Specialization Courses** | | |
| VMPE 809 | Insecticides & their Applications (for M.Sc.; Ph.D. Veterinary Entomology) | 2 |
| VMPE 805 | Special Topics in Helminthic Diseases (for M.Sc.; Ph.D. Veterinary Helminthology) | 2 |
| **Elective Courses** | | |
| VMPE 803 | Immunology of Parasites | 2 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core Departmental Courses** | | |
| VMPE 800 | Advanced Entomology (for all programmes) | 3 |
| VMPE 802 | Advanced Protozoology (for all programmes) | 3 |
| VMPE 882, 884, 886 | MSc Seminar II, IV & VI | 1/Semester |
| VMPE 982, 984, 986, 988 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMPE 882, 884, 886 | MSc Research II, IV & VI | 4/Semester |
| VMPE 992, 994, 996, 998 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Core Specialization Courses** | | |
| VMPE 808 | Techniques in Parasitology (for all programmes) | 2 |
| VMPE 806 | Special Topics in Rickettsia& Protozoon Diseases (for M.Sc.; Ph.D. Veterinary Protozoology) | 2 |
| **Elective Courses** | | |
| VMPE 804 | Biochemistry of Parasites | 2 |
| VMPE 842 | Problems in Entomology | 2 |
| VMPE 842 | Problems in Helminthology | 2 |
| VMPE 842 | Problems in Protozoology | 2 |

**12.5.4PhD. Veterinary Helminthology; 12.5.5 PhD. Veterinary Protozoology; 12.5.6 PhD. Veterinary Entomology**

*Admission and Graduation Requirements*

As for the Faculty of Veterinary Medicine requirement.

## 12.6 DEPARTMENT OF VETERINARY PATHOLOGY

**12.6.1 MSc Veterinary Pathology and 12.6.2 PhD. Veterinary Pathology**

*Admission and Graduation requirements:*

As for Faculty requirement.

*Course Structure*

**Semester 1**

| Course code | Course title | Credit Units |
|---|---|---|
| **Core/compulsory Departmental Course** | | |
| VMPA 801 | Advanced Histopathology | 3(1-6) |
| VMPA 809 | Advanced Clinical Chemistry | 3(2-3) |
| VMPA 881, 883, | MSc Seminar I, III & V | 1/Semester |
| VMPA 981, 983, 985, 987, 989 | PhD Seminar 1, III, V, VII | 1/Semester |
| VMPA 891, 893, 885 | MSc Research I, III, V | 4/Semester |
| VMPA 991, 993, 995, 997, 999 | PhD Research I, III, V & VII | 6/Semester |
| **Core Specialization Course** | | |
| **Pathology** | | |
| VMPA 803 | Advanced Systemic Pathology I | 4(2-6) |
| VMPA 805 | Nutritional Pathology | 3(2-3) |
| VMPA 807 | Advanced Poultry Pathology | 3(2-3) |

**Semester 2**

| Course code | Course title | Credit Units |
|---|---|---|

| | | |
|---|---|---|
| **Core/compulsory Departmental Course** | | |
| VMPA 802 | Diagnostic Pathology | 3(1-6) |
| VMPA 808 | Advanced Comparative Haematology | 3(2-3) |
| VMPA 881, 883, | MSc Seminar II, IV & VI | 1/Semester |
| VMPA 981, 983, 985, 987, 989 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMPA 891, 893, 885 | MSc Research II, IV & VI | 4/Semester |
| VMPA 991, 993, 995, 997, 999 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Core Specialization Course** | | |
| **Pathology** | | |
| VMPA 800 | Mechanism of Disease | 2(2-0) |
| VMPA 802 | Diagnostic Pathology | 3(1-6) |
| VMPA 804 | Oncology | 3(2-3) |
| VMPA 806 | Avian Diseases | 3(2-3) |
| VMPA 808 | Advanced Comparative Haematology | 3(2-3) |
| VMPA 810 | Exfoliative Cytology | 2(1-3) |
| VMPA 818 | Advanced Systemic Pathology II | 4(2-6) |
| **Elective Course** | | |
| VMPA 820 | Problems in Pathology | 3(1-6) |

**12.5.2 Ph.D. Veterinary Pathology**

*Admission and Graduation requirements:*
As for Faculty requirement.

## 12.7 DEPARTMENT OF VETERINARY PHARMACOLOGY AND TOXICOLOGY

**12.6.1 and 12.6.2 MSc and PhD Programmes**

b. MSc Veterinary Pharmacology
c. MSc Veterinary Toxicology
d. PhD Veterinary Pharmacology
e. PhD Veterinary Toxicology

*Admission and Graduation Requirements:*
As for Faculty requirement.

*Course Structure*
**First Semester**

| Course code | Course Title | Credit Units |
|---|---|---|
| **Core Departmental Courses** | | |
| VMPY 805 | Cell physiology | 2 |
| VMPT 881,883,885 | MSc. Seminar | 1cu/semester |
| VMPT 981,983,985 | PhD Seminar | " |
| VMPT 891,893,895 | MSc Research/thesis | 4cu/semester |
| VMPT 991,993,995 | PhD Research/Dissertation | 6cu/semester |
| **Core Specialization Course** | | |
| **Pharmacology Option** | | |
| VMPT 801 | Clinical Pharmacology | 3 |
| VMPT 807 | Toxicology of Poisonous Plants | 2 |
| VMPY 813 | General Physiology of Excitable Tissues | 3 |
| PHCH 803 | Advanced Pharmaceutical Analysis | 4 |

| | | |
|---|---|---|
| PHCL 801 | General Pharmacology | 2 |
| PHCL 803 | ANS Pharmacology | 2 |
| **Toxicology Option** | | |
| VMPT 801 | Clinical Pharmacology | 3 |
| VMPT 803 | Environmental Toxicology | 2 |
| VMPT 807 | Toxicology of Poisonous Plants | 3 |
| VMPT 819 | Bionucleonics | 3 |
| VMPA 801 | Advanced Histopathology | 3 |
| VMPA 809 | Advanced Clinical Chemistry | 3 |
| **Elective Courses (At the discretion of the supervisory committee)** | | |

**Second Semester**

| Course code | Course Title | Credit Units |
|---|---|---|
| **Core Departmental Courses** | | |
| VMPT 806 | Instrumentation | 3 |
| VMPT 812 | Research Techniques | 2 |
| VMPH 706 | Biometry | 2 |
| VMPT 882,884,886 | MSc Seminar II, IV & VI | 1/Semester |
| VMPT 982,984,986 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMPT 892,894,896 | MSc Research II, IV & VI | 4/Semester |
| VMPT 992,994,996 | PhD Research II, IV, VI & VIII | 6/Semester |
| **Core Specialization Course** | | |
| **Pharmacology Option** | | |
| VMPT 802 | Biotransformation | 2 |
| VMPT 816 | Toxicology of Poisonous and Venomous Animals | 3 |
| VMPA 802 | Diagnostic Pathology | 3 |
| PHCL 818 | Ethnopharmacology | 2 |
| **Elective Course (At the discretion of the supervisory committee** | | |

## 12.8 DEPARTMENT OF VETERINARY PHYSIOLOGY

*Postgraduate Programmes:*

### 12.8.1 MSc Veterinary Physiology

*Admission and Graduation Requirements:*

As for Faculty requirement

### 12.8.2 PhD Veterinary Physiology

*Admission and Graduation Requirements:*

As for Faculty requirement

*Course Structure*

**First Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core Departmental Courses** | | |
| VMPY805 | Cell Physiology | 2 |
| VMPY881, 883, 885 | MSc Seminar I, III & V | 1/Semester |
| VMPY 981, 983, 985 | PhD Seminar 1, III, V, VII | 1/Semester |
| VMPY 891, 893, 895 | MSc Research I, III, V | 4/Semester |
| VMPY 991, 993, 995 | PhD Research I, III, V & VII | 6/Semester |
| **Core Specialisation Course** | | |

| | | |
|---|---|---|
| VMPY 809 | Gastroenterology | 3 |
| VMPY 813 | General Physiology of Excitable Tissues | 3 |
| VMPY 815 | Endocrine Physiology | 4 |
| VMPY 817 | Cardiovascular Physiology | 3 |
| VMPY 819 | Radiophysiology | 3 |

**Second Semester**

| Course Code | Course Title | Credit Unit |
|---|---|---|
| **Core Departmental Courses** | | |
| VMPY 806 | Instrumentation | 3 |
| VMPY 812 | Research Techniques | 2 |
| VMPH 706 | Biometry | 2 |
| VMPY 808 | Reproductive Physiology | 3 |
| VMPY 814 | Neurophysiology | 5 |
| VMPY 810 | Environmental Physiology | 3 |
| VMPY882, 884, 886 | MSc Seminar II, IV & VI | 1/Semester |
| VMPY 982, 984, 986 | PhD Seminar II, IV, VI & VIII | 1/Semester |
| VMPY 892, 894, 896 | MSc Research II, IV & VI | 4/Semester |
| VMPY 992, 994, 996 | PhD Research II, IV, VI & VIII | 6/Semester |

## 12.9. DEPARTMENT OF VETERINARY PUBLIC HEALTH AND PREVENTIVE MEDICINE

### 12.9.1 Postgraduate Diploma in Veterinary Epidemiology

*Admission Requirements.*

To qualify for admission into the Postgraduate Diploma in Epidemiology candidates must have 5 credits in relevant subjects at 0' Level at not more than two sittings. Candidates should also possess a DVM, MBBS or B.Sc. in Zoology, Microbiology, Biochemistry or any other medical or biological science with a minimum of third class

*Graduation Requirements*

A candidate must be successful in all the Courses with a score of not less than 50%.

*Course Structure*

**First Semester**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| **Core compulsory departmental courses** | | | |
| 1 | VMPH701 | Zoonosis | 3 |
| 2 | VMPH703 | Introductory Environmental Health | 2 |
| 3 | VMPH705 | *Laboratory Methods | 1 |
| 4 | VMPH707 | Principles of Preventive Medicine | 2 |
| 5 | VMPH709 | Computer Applications | 2 |
| 6 | VMPH711 | Biostatistics | 3 |
| 7 | VMPH713 | Epidemiology I | 3 |
| | | **Sub Total** | **16** |

**(* Practical course 1CU= 3 hours of contact)**

**Second Semester**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| **Core compulsory specialization courses** | | | |
| 1 | VMPH702 | Epidemiology II | 2 |
| 2 | VMPH704 | Analytical Epidemiology | 2 |
| 3 | VMPH706 | Data Management | 2 |

| | | | |
|---|---|---|---|
| 4 | VMPH708 | Economics of Disease Control | 2 |
| 5 | VMPH710 | Computer in Statistics | 2 |
| | | **Sub Total** | **10** |
| | | | |
| **Elective courses** | | | |
| 1 | VMPH712 | Clinical Epidemiology | 2 |
| 2 | VMPH714 | Risk Assessment and Management | 2 |
| 3 | VMPH718 | Food safety | 2 |
| 4 | VMPH724 | Project in Epidemiology | 3 |
| | | **Sub Total** | **9** |
| **Seminar and Research** | | | |
| 1 | VMPH781, 782 | PGD Seminar (1cu/Semester) | 2 |
| 2 | VMPH791, 792 | PGD Research (3cu/Semester) | 6+ |

### 12.5.2 Post Graduate Diploma in Food Hygiene

*Admission requirements*

1. The minimum entry requirement for Post-graduate Diploma in Food Hygiene is Higher National Diploma (HND) in Animal Health at Lower Credit grade.
2. DVM graduates, graduates from other related fields of study such as medicine, pharmacy, food science and technology, etc.

*Graduation requirements*

To qualify for the award of postgraduate diploma certificate in food hygiene, a candidate shall be required to register for and pass the prescribed core courses and two electives as well as present and successfully defend the report of a supervised research project. To graduate, candidate must present one mandatory seminar to the Faculty, obtain a minimum of 25 credit units of course work, write and internally defend a Project written from a supervised research conducted by the candidate.

*Course Structure*

**First Semester**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| **Core compulsory departmental courses** | | | |
| 1 | VMPH701 | Zoonosis | 3 |
| 2 | VMPH703 | Introductory Environmental Health | 2 |
| 3 | VMPH705 | *Laboratory Methods | 1 |
| 4 | VMPH707 | Principles of Preventive Medicine | 2 |
| 5 | VMPH709 | Computer Applications | 2 |
| 6 | VMPH711 | Biostatistics | 3 |
| 7 | VMPH713 | Epidemiology I | 3 |
| | | **Sub Total** | **16** |

**(* Practical course 1CU= 3 hours of contact)**

**Second Semester**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| **Core compulsory specialization courses** | | | |
| 1 | VMPH720 | Food Hygiene | 3 |
| 2 | VMPH722 | Essentials of Food Preservation | 2 |
| 3 | VMPH724 | Food Safety | 2 |

| | | | |
|---|---|---|---|
| 4 | VMPH726 | Public Health Administration | 2 |
| | | **Sub Total** | **9** |
| | | | |
| **Elective courses** | | | |
| 1 | VMPH728 | Applied Epidemiology | 3 |
| 2 | VMPH730 | Animal Health and Disease Control | 2 |
| 3 | VMPH732 | Elements of Milk Hygiene | 2 |
| 4 | VMPH734 | Food borne Diseases | 2 |
| | | | **9** |
| **Seminar and Research** | | | |
| 1 | VMPH781, 782 | PGD Seminar I, II (1/Semester) | 2+ |
| 2 | VMPH791, 792 | PGD Research 1, II (3/Semester) | 6+ |

**12.9.3 M.Sc. Public Health and Preventive Medicine**

*Admission Requirements*

a. As for Faculty requirements

b. Candidates must also possess a DVM, MBBS or a B.Sc. in Zoology, Microbiology, Biochemistry or any other Medical or Biological Sciences with a minimum of second-class upper degree.

c. Candidates holding postgraduate diploma in Epidemiology or Food Hygiene from the Department must possess a mminimum credit CGPA of 3.5 in addition to other faculty requirements before being considered for admission into the M.Sc. Veterinary Public Health and Preventive Medicine programme.

c. There may be a written examination for screening of applicants. A 50% pass mark will be the acceptable minimum score.

*Graduation Requirements*

As for Faculty requirements

*Course Structure*

**First Semester**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| **Core compulsory departmental courses** | | | |
| 1 | VMPH801 | Biometry | 3 |
| 2 | VMPH803 | Principles of Epidemiology | 3 |
| 3 | VMPH815 | Introduction to Molecular Genetics | 3 |
| | | **Sub Total** | **9** |
| 4 | VMPH881, 883 | M.Sc. Seminar (1/Semester) I, III | 3+ |
| 5 | VMPH981,983, 985, 987 | PhD Seminar (1/Semester) 1, III, V, VII | 4+ |
| 6 | VMPH891, 893 | M.Sc. Research (4/Semester) I, III | 4 |
| 7 | VMPH991,993, 995, 997 | PhD Research (6/Semester) 1, III, V, VII | 6 |
| | | | |
| **Core specialization courses** | | | |
| 8 | VMPH811 | Meat Hygiene, Abattoir Mgt. Product | 3 |
| 9 | VMPH805 | Bacterial Zoonoses | 3 |
| 10 | VMPH807 | Parasitic Zoonoses | 2 |
| 11 | VMPH813 | Milk Hygiene | 3 |
| 12 | VMPH809 | Economics of Animal Disease Control | 2 |
| | | **Sub Total** | **13** |
| **Elective courses: At the discretion of supervisory committee** | | | |

**Second Semester**

| S/No | Course Code | Course Title | Credit Units |
|---|---|---|---|
| **Core compulsory departmental courses** | | | |
| 1 | VMPH808 | Public Health Administration | 2 |
| 2 | VMPH804 | Environmental Health | 3 |
| 3 | VMPH816 | Molecular Epidemiology | 2 |
| | | **Sub Total** | **7** |
| 4 | VMPH892,894 | M.Sc. Seminar (1/Semester) II, IV | 3+ |
| 5 | VMPH982,984, 986, 988 | PhD Seminar (1/Semester) II, IV, VI, VIII | 4+ |
| 6 | VMPH892,894 | M.Sc. Research (4/Semester) II, IV | 4 |
| 7 | VMPH992,994, 996, 998 | PhD Research (6/Semester) II, IV, VI, VIII | 6 |
| | | | |
| **Core specialization courses** | | | |
| 8 | VMPH802 | Advanced Epidemiology | 3 |
| 9 | VMPH810 | Herd Health Mgt. | 3 |
| 10 | VMPH812 | Fish and Shellfish Hygiene | 3 |
| 11 | VMPH806 | Viral Zoonoses | 2 |
| 12 | VMPH814 | Food Preservation | 2 |
| | | **Sub Total** | **13** |
| **Elective courses: At the discretion of supervisory committee** | | | |

**12.9.4 M.Sc. Veterinary Epidemiology**

*Admission Requirements*

a. As for Faculty requirements

b. Candidates must also possess a DVM or a degree judged to be equivalent to DVM and have at least two years experience working in disease control, surveillance or other forms of epidemiological activity preferably with a state or federal veterinary establishment or equivalent.

c. Applicants must possess a mminimum CGPA of 3.5 in addition to other faculty requirements before being considered for admission into M.Sc. Veterinary Epidemiology programme.

c. There may be a written examination and or interview for screening of applicants. A 50% pass mark will be the acceptable minimum score.

d. For the duration of MacArthur Foundation funding of the programme, preference will be given to female applicants and those employed by government veterinary services

*Graduation Requirements*

As for Faculty requirements. In addition to course work and research requirements, candidates are also expected to successfully undertake a 3 months field attachment and present a report of activity in accordance with the departmental guidelines.

*Course Structure*

**First Year of Study**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| VMPH803 | Principles of Epidemiology | 3 (3-0) | Core |
| VMPH817 | Statistical Methods | 3 (2-1) | Core |
| VMPH819 | Computer Methods in Epidemiology | 2 (0-2) | Core |
| VMPH821 | Laboratory Methods 1 | 2 (0-2) | Core |
| VMPH823 | Clinical Epidemiology | 2 (2-0) | Core |
| VMPH809 | Economics of Disease Control | 2 (2-0) | Core |

| | | | |
|---|---|---|---|
| VMPH825 | Zoonosis | 3 (3-0) | Core |
| VMPH827 | Advanced Statistical Methods in Epidemiology | 2 (1-1) | Elective |
| VMPH881 | Seminar I | 1/Semester | Core |
| VMPH891 | Research/Thesis I | 4/Semester | Core |

**Total CU Core=17 and Elective 2 CU**

**Second Semester –First Year of Study**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| VMPH816 | Molecular Epidemiology | 2 (2-0) | Core |
| VMPH818 | Risk Analysis and HACCP in Disease Control | 3 (3-0) | Core |
| VMPH820 | Disease Surveillance and Quarantine | 2 (2-0) | Core |
| VMPH822 | Laboratory Methods II | 2 (2-0) | Core |
| VMPH824 | Advanced Spatial Epidemiology | 2 (1-1) | Elective |
| VMPH826 | Emerging Infectious Diseases | 2 (2-0) | Elective |
| VMPH828 | Epidemiology and Society | 2 (2-0) | Elective |
| VMPH830 | Research Methods | 2 (2-0) | Core |
| VMPH832 | State Medicine and Regulatory Medicine | 2 (2-0) | Core |
| VMPH834 | Epidemiological Simulation and Modeling | 2 (1-1) | Elective |
| VMPH836 | Participatory Epidemiology | 2 (0-2) | Elective |
| VMPH882 | Seminar II | 1/Semester | Core |
| VMPH892 | Research/Thesis II | 4/Semester | Core |

**Total CU = 13CU Core, 10CU Elective**
**First Semester –Second Year of Study**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| VMPH831 | Field work | 6 | Core |
| VMPH883 | Seminar III | 1/Semester | Core |
| VMPH893 | Research/Thesis III | 4/Semester | Core |
| | | | |

**Total CU = 7-11 CU of Core**

**Second Semester –Second Year of Study**

| Course Code | Course Title | Credit Units | Status |
|---|---|---|---|
| VMPH884 | Seminar IV | 1/Semester | Core |
| VMPH894 | Research/Thesis IV | 4/Semester | Core |
| | | | |

**Total CU = 8-12 CU of Core**

**12.5.5 PhD Veterinary Public Health and Preventive Medicine**
*Admission requirements*
As per the Faculty requirement for PhD programs

*Graduation requirements*
To graduate, candidate must present mandatory seminar annually to the Faculty, obtain a minimum of 45 credit units of course work, write and externally defend a dissertation written from a supervised research conducted by the candidate.

## 12.10 DEPARTMENT OF VETERINARY SURGERY AND RADIOLOGY

*Admission and Graduation requirement*
As for Faculty requirements

**12.10.1 MSc. Food Animal Surgery and 12.10.2 PhD Food Animal Surgery**
*Options/Research Areas:*
i. Large Ruminant Surgery
ii. Small Ruminant Surgery
iii. Swine/Porcine Surgery

**12.10.3 MSc. Veterinary Soft Tissue Surgery and 12.10.4 PhD. Veterinary Soft Tissue Surgery**
*Options/Research Areas:*
i. General Surgery
ii. Plastic and Reconstructive Surgery
iii. Wound Management

**12.10.5 MSc. Veterinary Orthopaedic Surgery and 12.10.6 PhD. Veterinary Orthopaedic Surgery**
*Options/Research Areas:*
i. Traumatology
ii. Fracture Management

**12.10.7 MSc. Veterinary Diagnostic Imaging and 12.10.8 PhD. Veterinary Diagnostic Imaging**
*Options/Research Areas:*
i. Radiography
ii. Medical Ultrasonography
iii. Advanced Imaging

**12.10.9 MSc. Veterinary Anaesthesia and 12.10.10 PhD. Veterinary Anaesthesia**
*Options/Research Areas:*
i. Anaesthesia
ii. Analgesia/Pain Management

**12.10.11 MSc. Wildlife Surgery and 12.10.12 PhD. Wildlife Surgery**
**Options/Research Areas:**
i. Wildlife Surgery
ii. Wildlife Capture and Immobilization

**12.10.13 MSc. Equine Surgery and 12.10.14 PhD. Equine Surgery**
*Options/Research Areas:*
i. Equine Surgery
ii. Equine Lameness

**M.Phil. Programmes**
M.Phil. (Food Animal Surgery; Equine and Wildlife Surgery; VeterinaryAnaesthesiology; Veterinary Soft Tissue Surgery; Veterinary Orthopaedic Surgery; VeterinaryDiagnostic Imaging) degrees are designed for:

*Admission requirements*

i. Applicants whose M.Sc. degrees are in other specialties other than the desired PhD specialty.
ii. Applicants whose M.Sc. transcript proved inadequate relative to ABU M.Sc. degrees in the relevant specialty.
iii. Applicants who's Masters/M.Sc. lacked an externally defended thesis component.
iv. PhD students unable to complete their studies within the maximum permissible time but have earned the stipulated credit units of course work and made sufficient progress with their research work to a Masters project standard.

*Course Structure*

**Semester1**

| Course code | Course title | Credit Units |
|---|---|---|
| **Core Departmental Courses** | | |
| VMMD 845 | Clinical Research Methods and Experimental Design I | 3 |
| VMSR 845 | Surgery Clinics I | 2 |
| VMSR 849 | Surgical Diagnostic Techniques | 2 |
| VMSR 843 | Surgical Anatomy | 2 |
| VMSR 881, 883 | M.Sc. Seminar | 1cu/semester |
| VMSR 981, 983, 985 | Ph.D. Seminar | " |
| VMSR 891, 893 | M.Sc. Research/Thesis | 4cu/semester |
| VMSR 991, 993, 995 | Ph.D. Research/Dissertation | 6cu/semester |
| **Core Specialization Course** | | |
| **Food Animal Surgery** | | |
| VMSR 807 | Advanced Large Animal Anaesthesia | 2 |
| VMSR 821 | Exercises in Large Animal Surgery | 3 |
| VMSR 847 | Surgical Complications and Management Strategies | 2 |
| VMSR 851 | Swine Surgery | 3 |
| | | |
| **Equine Surgery** | | |
| VMSR 817 | Equine Abdominal Surgery | 3 |
| VMSR 807 | Advanced Large Animal Anaesthesia | 2 |
| VMSR 819 | Equine Dentistry | 2 |
| VMSR 821 | Exercises in Large Animal Surgery | 3 |
| VMSR 847 | Surgical Complications and Management Strategies | 2 |
| | | |
| **Wildlife Surgery** | | |
| VMSR | Instrumentation in Wildlife immobilization, capture, translocation and Practice | 2 |
| VMSR 853 | Wildlife Immobilization | 3 |
| VMSR 807 | Advanced Large Animal Anaesthesia | 2 |
| VMSR 821 | Exercises in Large Animal Surgery | 3 |
| VMSR 847 | Surgical Complications and Management Strategies | 2 |
| VMSR 825 | Intensive Care Management of Surgical Patients | 3 |
| VMSR 811 | Advanced Small Animal Anaesthesia | 3 |
| VMSR 809 | Advanced Radiology | 2 |
| VMSR 855 | Wildlife Legislation and Ethics | 2 |
| VMSR 857 | Hazards and Safety precautions in Wildlife Practice | 2 |
| ZOOL 807 | Wildlife Conservation and Management | 2 |
| ZOOL 865 | Forest and Savannah Ecology | 2 |
| VMSR 815 | Anaesthesia in Exotic Animals | 2 |
| BIOL811 | Culture & Maintenance of Lab Animals, Zoological Gardens and Museums | 2 |
| | | |

| | | |
|---|---|---|
| **Veterinary Orthopedic Surgery** | | |
| VMSR 835 | Small Animal Dentistry | 2 |
| VMSR 811 | Advanced Small Animal Anaesthesia | 3 |
| VMSR 809 | Advanced Radiology | 2 |
| VMAN XXX | Advanced Osteology | |
| VMSR 825 | Intensive Care Management of Surgical Patients | 3 |
| VMSR 847 | Surgical Complications and Management Strategies | 2 |
| VMSR 839 | Small Animal Pain Management | 2 |
| VMPP 817 | Cardiovascular Physiology | 3 |
| | | |
| **Veterinary Soft Tissue Surgery** | | |
| VMSR 811 | Advanced Small Animal Anaesthesia | 3 |
| VMSR 837 | Small Animal Gastrointestinal Surgery | 2 |
| VMSR 841 | Small Animal Ophthalmic Surgery | 2 |
| VMSR 829 | Plastic and Reconstructive Surgery | 2 |
| VMSR 825 | Intensive Care Management of Surgical Patients | 3 |
| VMSR 847 | Surgical Complications and Management Strategies | 3 |
| VMSR 839 | Small Animal Pain Management | 2 |
| VMPP 817 | Cardiovascular Physiology | 3 |
| | | |
| **Veterinary Anaesthesiology** | | |
| VMSR 811 | Advanced Small Animal Anaesthesia | 3 |
| VMSR 807 | Advanced Large Animal Anaesthesia | 2 |
| VMSR 839 | Small Animal Pain Management | 2 |
| VMSR 825 | Intensive Care Management of Surgical Patients | 3 |
| VMSR 847 | Surgical Complications and Management Strategies | 3 |
| VMSR 815 | Anaesthesia in Exotic Animals | 2 |
| | | |
| **Veterinary Diagnostic Imaging** | | |
| VMAN 809 | Radiological Anatomy | 2 |
| VMSR 809 | Advanced Radiology | 2 |
| VMSR 813 | Advanced Ultrasonography and CT Scan | 2 |
| VMSM 815 | Canine and Feline Urology | 2 |
| VMSM 819 | Clinical Gastroenterology | 2 |
| VMSR 811 | Advanced Small Animal Anaesthesia | 3 |
| VMSR 807 | Advanced Large Animal Anaesthesia | 2 |
| | | |
| **Elective Courses** (At the discretion of the supervisory committee) | | |
| VMSR 831 | Problems in Veterinary Anaesthesiology | 2 |
| VMSR 833 | Problems in Veterinary Pain Management | 2 |
| VMSR 823 | Experimental Surgery in Large Animals | 2 |
| VMPA 801 | Advanced Histopathology | 3 |
| VMSR 857 | Reviews in Veterinary Surgery | 2 |
| | | |
| | | |
| VMSR 815 | Anaesthesia in Exotic Animals | 2 |
| VMPP | Pharmacology of Anaesthetic Drugs | 2 |
| VMSM 827 | Advanced Clinical Oncology | 3 |
| VMPH 801 | Biometry | 3 |

**Semester 2**

| Course code | Course title | Credit |
|---|---|---|

| | | Units |
|---|---|---|
| **Core Departmental Course** | | |
| VMSR 826 | Surgical Clinics II | 2 |
| VMSR 828 | Surgical Informatics and Scientific Integrity | 2 |
| VMMD 846 | Clinical Research Methods and Experimental Design II | 3 |
| VMSR 882, 884, | M.Sc. Seminar | 1cu/semester |
| VMSR 982, 984, 986 | PhD Seminar | " |
| VMSR 892, 894 | M.Sc. Research/thesis | 4cu/semester |
| VMSR 992, 994, 996 | PhD Research/dissertation | 6cu/semester |
| **Core Specialization Course** | | |
| **Food Animal Surgery** | | |
| VMSR 830 | Topics in Large Animal Lameness | 2 |
| VMSR 820 | Problems in Large Animal Orthopedic Surgery | 2 |
| VMSR 802 | Advance Large Animal Mammary Gland Surgery | 2 |
| VMSR 812 | Foot and Claw Surgery | 2 |
| VMSR 814 | Large Animal Fluid and Electrolyte Therapy | 2 |
| VMSR 818 | Minimally Invasive Surgery | 2 |
| | | |
| **Equine Surgery** | | |
| VMSR 808 | Equine Trauma and Emergency Care | 2 |
| VMSR 812 | Foot and Claw Surgery | 2 |
| VMSR 820 | Problems in Large Animal Orthopedic Surgery | 3 |
| VMSR 830 | Topics in Large Animal Lameness | 2 |
| VMSR 814 | Large Animal Fluid and Electrolyte Therapy | 2 |
| VMSR 818 | Minimally Invasive Surgery | 2 |
| | | |
| **Veterinary Orthopedic Surgery** | | |
| VMSR 806 | Canine and Feline Orthopedic Surgery | 3 |
| VMSR 810 | Fluid and Electrolyte Therapy in Small Animals | 2 |
| VMSR 804 | Canine and Feline Cardiothoracic Surgery | 2 |
| | | |
| **Veterinary Soft Tissue Surgery** | | |
| VMSR 804 | Canine and Feline Cardiothoracic Surgery | 2 |
| VMSR 810 | Fluid and Electrolyte Therapy in Small Animals | 2 |
| VMSM 816 | Canine and Feline Cardiology | 3 |
| VMSR 818 | Minimally Invasive Surgery | 2 |
| | | |
| **Veterinary Anaesthesiology** | | |
| VMPY 814 | Advanced Neurophysiology | 5 |
| VMSR 834 | Instrumentation in Anaesthesia | 3 |
| VMSM 816 | Canine and Feline Cardiology | 3 |
| VMSR 810 | Fluid and Electrolyte Therapy in Small Animals | 2 |
| VMSR 816 | Large Animal Pain Management | 2 |
| VMPP 817 | Cardiovascular Physiology | 3 |
| | | |
| **Veterinary Diagnostic Imaging** | | |
| VMPT 806 | Instrumentation in Diagnostic Imaging | 3 |
| VMSM 802 | Advanced Nutritional Diseases | 2 |
| VMSR 818 | Minimally Invasive Surgery | 2 |
| VMSR 836 | Labs in Image Interpretation | 2 |
| VMSR 830 | Topics in Large Animal Lameness | 2 |
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| **Wildlife Surgery** | | |
|---|---|---|
| VMSR 808 | Equine Trauma and Emergency Care | 2 |
| VMSR 812 | Foot and Claw Surgery | 2 |
| VMSR 820 | Problems in Large Animal Orthopedic Surgery | 3 |
| | | |
| VMSR 806 | Canine and Feline Orthopedic Surgery | 3 |
| VMSR 814 | Large Animal Fluid and Electrolyte Therapy | 2 |
| VMMD ??? | Wildlife Diseases | 3 |
| VMSR 818 | Minimally Invasive Surgery | 2 |
| VMSR 846 | Wildlife Surgery | 2 |
| VMSR 848 | Practical Wildlife Capture | 3 |
| **Elective Course** (At the discretion of the supervisory committee) | | |
| VMSR 824 | Problems in Small Animal Surgery | 2 |
| VMSR 822 | Problems in Large Animal Surgery | 2 |
| VMPT 808 | Advanced Comparative Haematology | 3 |
| VMMD 804 | Advanced Veterinary Economics | 2 |
| VMSR 801 | Avian and Fish Surgery | 3 |
| VMMD 822 | Clinical Immunology | 3 |
| VMTP 814 | Veterinary Obstetrics II (Small Animal & Wildlife) | 3 |

*All core courses for other programmes are electives in other programmes.