

**DEPARTMENT OF FISHERIES AND AQUACULTURE  
FACULTY OF AGRICULTURE  
BAYERO UNIVERSITY, KANO**



**UNDERGRADUATE STUDENTS' HANDBOOK**

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### **Logo and Motto of the University**

The star-shaped calligraphy is the motto of the citadel, a graphic pun, excerpted from the Holy Qur'an. "Wa Fawqa Dhi Ilmin Alim" It echoes an eternal truth that also underlines the humility and sense of service the community has come to expect from its stars in the learning firmament: "... And above every possessor of knowledge, there is one more learned".

### **Vision of the University**

Bayero University shall be a world-class University in Africa renowned for its excellence in teaching and research and quality of its products

### **Mission of the University**

To provide world class academic and professional training, community services and conduct research for the advancement of the society.

To produce high quality human resource with the requisite skills for the development of the host community, the nation and humanity.

## **Core Values of the University**

Humility and Sacrifice

Discipline and Commitment

Integration and Internationalization

Professionalism and Good Governance

Innovativeness and Creativity

Excellence and Best Practice

## **Strategic Goals of the University**

Responding to needs, Meeting aspirations, leading in research and innovation, Achieving best practices in University governance, Meeting infrastructural and municipal requirements, Becoming a leader in ICT research and services, taking the University to the Community, Maintaining highly motivated personnel, Expanding future base producing leaders, Influencing Development.

### Visitor and Principal Officers of the University

His Excellency, Muhammadu Buhari, GCFR President and Commander-in-Chief of the Armed Forces, Federal Republic of Nigeria	Visitor
His Royal Majesty, King Alfred Papapreye Diete Spiff, Seriayi II, The Amayanabo of Twon-Brass, Bayelsa State	Chancellor
Mahmud Yayale Ahmed, CFR B.Sc., M.Sc., MNIA	Pro-chancellor and Chairman of Council
Professor Muhammad Yahuza Bello B.Sc., M.Sc., (BUK) Ph.D (Arkansas)	Vice Chancellor
Professor Sagir Adamu Abbas B.Sc. (Ed), M.Ed., (BUK) Ph.D (ABU)	Deputy Vice Chancellor (Academic)
Professor Adamu Idris Tanko B.Sc. M.Sc. PhD (BUK), FRGS	Deputy Vice Chancellor (Administration)
Hajiya Fatima Binta Mohammed <i>MNIM</i> B.A. (Ed), MPPA (BUK)	Registrar
Alhaji Suleiman Mohammed Bello	Bursar
Dr. Musa Abdu Auyo	Librarian

### Principal Officers of the Faculty

<b>Name</b>	<b>Designation</b>
Prof. Ahmad Muhammad Bakori	Dean
Dr. Halima Muhammad Isa	Deputy Dean
Dr. Aminu Nasiru	sub- Dean (Academics)
Mrs. Aisha A. Mustapha	sub- Dean (Facilities)
Dr. Abdurrahman Lado	Faculty Examinations Officer
Dr. Ali Abdullahi	Head, Department of Agricultural Economics and Extension
Dr. Shehu Usman Yahaya	Head, Department of Agronomy
Dr. Mohammed Baba	Head, Department of Animal Science
Dr. Hassan Sule	Head, Department of Crop Protection
Dr. Garba Omar	Head, Department of Soil Science
Dr. Binta Isyaku Usman	Ag. Head, Department of Fisheries and Aquaculture
Dr. Mukhtar Ridwanu Bunza	Head, Department of Forestry and Wildlife Management
Dr. Dahiru J. M. Adamu	Head, Department of Food Science and Technology

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## FOREWORD

It is my pleasure to write the Foreword of this very important document, the Undergraduate Students Handbook of the Faculty of Agriculture, Bayero University, Kano. It is a very important document in the sense that it is intended to guide you and give you direction throughout your stay here at the Bayero University, Kano. The Handbook has been carefully prepared with the objective of giving you all the necessary information that you require not only in understanding the structure of the Bachelor of Agriculture (B. Agriculture) programme but also the rules, regulations and guidelines that you need to follow to enable you successfully pursue your studies in the Faculty and indeed, the University.

The Handbook covers a wide range of areas that if carefully read and fully internalized, will make your study and, indeed stay at the Bayero University, Kano successful, pleasant, and rewarding. The areas include philosophy and objectives of the Faculty, admission requirements, graduation requirements, academic regulations, general conduct and discipline, dressing and dress code, course outline, and course description, among others. I urge you to read this Handbook carefully and make good use of it. For the avoidance of doubt, you are reminded that your degree certificate is awarded based on **character** and **learning** and not on **learning** alone. You are required to be hard working and to always strive for excellence. You are also required at all times to maintain discipline and obey the University's Rules and Regulations. The University will neither tolerate violation of its rules and regulations nor those who cross the bounds of decency. At the same time, the Faculty and the University as a whole will do everything possible to assist you in realizing your legitimate objectives, i.e. your fundamental reason for coming to the University.

I wish you a very pleasant and successful stay at the Bayero University, Kano.

**Prof. Muhammad Yahuza Bello**  
**Vice Chancellor**

## **MESSAGE FROM THE DEAN**

It is my pleasure to welcome you to the Faculty of Agriculture, Bayero University, Kano. There is no gain saying that this handbook is a valuable guide and source of information for those desiring to know about the Faculty and its B. Agriculture programme.

It covers a wide range of areas which touch all aspects of your study and stay at the University. The areas covered include: the philosophy, mission, vision, core values and strategic goals of the University. The Objectives and philosophy, admission and graduation requirements; academic regulations; examination regulations, examination procedures and discipline; examination and academic misconduct; the various categories of examinations and related misconduct as well as the appropriate punishments for them; dressing and dress code; and of course the structure of the B. Agriculture programme.

I wish you successful and fruitful stay in this Faculty in particular and the University at large.

**Prof. Ahmad Muhammad Bakori**  
Dean, Faculty of Agriculture  
Bayero University, Kano

## ACADEMIC REGULATIONS

### **Semester System**

The Faculty, in line with the University Regulation operates a semester system which is defined as a quantitative organization of the curriculum where courses are divided into examinable units and for which a student earns credit if passed. The courses are arranged in a well-defined order that indicates the credits load as well as the semester in which they are offered. For instance, a course coded AGR2203 where 2 indicates a 200 level course, 2 indicate credit units, and 03 indicates the course is taken at first semester. Usually odd numbers (last digit) are assigned to courses in the 1<sup>st</sup> semester, while even numbers are assigned to 2<sup>nd</sup> semester courses.

### **Basic Concepts**

The main concepts used in the semester system are:

#### **Credit Unit (CU)**

Credit Unit (CU) represents the weight assigned to the course, and is recorded in credit hours. One credit is considered as one hour of classroom lecture per week or two hours of laboratory exercise per week. Thus, CU consists of specified number of student teacher hours/week/semester.

#### **Grade Point (GP)**

This involves assigning numerical or alphabetical letter to the scores of students at examinations, reports or projects. Letter systems generally run from A (5 points), to B (4 points), C (3 points), D (2 points), and F (0 point).

#### **Grade Point Average (GPA)**

This refers to the evaluation of students' performance in any semester. It is the average of weighted grade points earned in the courses offered by a student in a semester. The GPA is calculated as follows:

$$\text{GPA} = \frac{\text{TCE}}{\text{TCR}}$$

Where;

TCR = Total Credits Registered

TCE = Total Credits Earned

#### **Cumulative Grade Point Average (CGPA)**

The CGPA represents an up-to-date average (i.e. cumulative) of the GPA earned by the student in at least two semesters. It is an indication of the student's overall performance at any point in the course of his/ her training at the university. CGPA is attained after two semesters or more in an academic programme.

#### **Calculation of CGPA/GPA**

CGPA is calculated as follows:

$$\frac{\text{CPE}}{\text{CCR}}$$

where;

CPE is cumulative points earned.

CCR is cumulative credits registered

**Session**

An Academic year of two semesters as determined by Senate.

**Semester**

A period of 15 teaching weeks or as determined by Senate.

**Examination**

A formal test by written, oral or practical means held at an appointed time and place.

**Degree**

Qualification awarded following successful completion of a programme of study normally covering eight or more semesters

**Carry Over**

A student who fails to earn a minimum of 45 marks in a course (continuous assessment and examination) would be required to carry-over the course at the next available period and get it registered bearing in mind that there is maximum number of credits registerable per semester and per session for each level.

**Incomplete Status**

If a student earns 75% lectures attendance in a course but due to sickness, accident or other pertinent reason(s) is unable to write the semester examination, he/she would be granted incomplete status to retain his/her CA and be allowed to write the examination for that course at a later date.

**Suspension of Studies**

It means period approved by the Senate for a student to be away from academic activities (based on student's application and supporting documents). It is usually granted for a maximum period of one academic session but could be granted again (renewed) on application for one more academic session only. This usually does not count in determining the maximum period of stay of a student in the University.

**Probation**

Probation means a warning status accorded a student whose CGPA is less than 1.50 at the end of an academic session. It is usually for one academic session (two semesters) during which a student is expected to improve and raise his / her CGPA to at least 1.50, failure of which will lead to withdrawal of the student from the University.

**Rustication**

It means staying away from academic work for the period stated (either one semester or two). In this case, all academic exercise of the concerned student is cancelled and he/she will be required to repeat all at the next academic session. As rustication is a punishment, the period of rustication will count in determining the student's maximum period of stay in the University.

**Withdrawal**

Withdrawal means terminating a student's programme of study on academic ground. A student, who is placed on probation the previous year (academic session) and fails to earn a CGPA of 1.50 the following (succeeding) year, would be considered unfit for the course; accordingly, he/she would be advised to withdraw from the University. Similarly, a student who fails to sit for examination scheduled for a particular semester (absent throughout) without valid reason(s) would be considered to have voluntarily withdrawn from the University.

Students withdrawn on academic ground are free to seek re-admission into the University again using the usual means (UTME / DE).

### **Spill Over**

A student who fails to pass a registered course at the end of regular years of studies in the University will not graduate. i.e. he/she has exhausted the regular approved years of the programme by the University, in this case he/she has two more chance (opportunity to register and pass the course (spill over 1 and spill over 11)).

### **Last Chance**

This is the last permissible year outside the normal period required to graduate. (spill over 11).

### **Concessional Pass**

Concessional pass (CP) is an opportunity given by Senate to last chance students to graduate, provided they have satisfied all graduation requirements except in only one course that they failed with a minimum score of 30% in the last chance year.

### **Expulsion**

Expulsion means terminating a student's programme of study. It is usually on the account of misconduct. A student expelled is disqualified from seeking readmission into the University for any programme.

### **Attendance Requirements**

Students must attain at least 75% attendance of lectures, tutorial and practical work before being allowed to sit for examination. Students who did not attain **75% attendance** of lectures in any course of the Faculty will not be allowed to sit for examination.

### **Degree Classification and Academic Standing**

Degree is classified based on the CGPA at the point of graduation. However, it is important for a student to consider, at the end of each semester, that the CGPA he/she gets stands for the classification of his/her final degree. The table below gives the degree classification.

<b>S/N</b>	<b>Final CGPA</b>	<b>Class of Degree</b>
1.	4.50 – 5.00	First Class Honours
2.	3.50 – 4.49	Upper Second Class Honours
3.	2.40 – 3.49	Lower Second Class Honours
4.	1.50 – 2.39	Third Class Honours
5.	0.00 - 1.49	Fail (no degree awarded)

### **General Conduct and Discipline**

The Faculty of Agriculture and the university as a whole expect students to conduct themselves in an exemplary manner during their interactions with members of the University community and to live peacefully with them.

## **Misconduct**

Misconduct is any action that is contrary to University Regulations, some of which are as follows:

- a) belonging to, or participating in the activities of unregistered/illegal associations including secret cults;
- b) physical assault and/or causing bodily harm on any other person, whether a student or not;
- c) fighting;
- d) rioting and unauthorized assembly;
- e) organizing and/or taking part in demonstration by any student without permission;
- f) examination related misconducts;
- g) drug abuse and the use of prohibited substances;
- h) persistent rowdy and/or anti-social behaviour;
- i) reckless and/or dangerous driving;
- j) insulting and/or attacking University officials in the pursuit of their legitimate duties; and
- k) willful damage of University property.

## **Examination Regulations**

Credible examination is the only measure used in determining the success or failure of any University system. That is why students found to be engaged in examination misconducts are out rightly disciplined.

The University has drawn examination regulations to clarify the legitimate expectations and corresponding responsibilities of all staff and students. It is intended to ensure that the University's examinations are organized and conducted in a consistent and professional manner. These regulations apply at all examinations/assessments in the University (including continuous assessment test, tutorials and take home assignments.)

Some of the regulations are as follows:

- a) Students are expected to read all notice boards, bulletins and other related media in the University to keep them abreast with what is the happening. REFUSAL / FAILURE TO READ NOTICES from the designated media is not an excuse for not performing any academic activity.
- b) Attendance at lectures, practicals and examinations are compulsory, and anyone who does not attend a lecture, practical and examination at the time and place published in the examination time table will be deemed to have failed in that part of the assessment.
- c) Students who have clash in examinations based on the timetable should immediately inform their Examinations Officer within the stipulated period when draft timetable is displayed. Students who fail to inform the appropriate officers of the University of clash in examinations shall blame themselves for any difficulty or eventuality that may arise.

- d) It will be the responsibility of each student to make sure that he is aware of the Final Examination Timetable. Students are to expect changes of date, time and venue of examination on the Draft Examinations Timetable.

### **Examination Procedures and Discipline**

- a) It shall be the responsibility of each student to make sure that she/he is registered for the appropriate examinations and be sure of the date(s), time(s) and place(s) of the examinations for which he/she is registered, also to ensure that he/she is in possession of any identity document prescribed for the examination.
- b) Each candidate should be at the examination venue at least fifteen minutes before the commencement of the examination. Lateness will not be tolerated.
- c) Each candidate is required to supply his/her own writing materials and instruments as well as any other examination aids for which provision is prescribed. A student shall bring his identity document to each examination and display it in a prominent position on his desk.
- d) Any book, paper, document, examination aid, hand-bag or briefcase which is brought to the examination room must be deposited at the invigilator's desk, or a place designated for the purpose before the start of the examination. In no circumstances must it be placed on or near any candidate's writing desk.
- e) Each student shall write in the attendance register his/her registration number, name, answer booklet number and Department and then sign. Students are advised to note their serial number and attendance register number (in case there are more than one registers) for ease of signing out.
- f) Student shall write his/her examination number, but not his/her name, distinctly on the cover and on every page of the answer book, as well as on any extra sheet(s) issued.
- g) The use of scrap paper, question paper, toilet tissue, etc. for rough work is not permitted. All rough work must be done in answer booklets and crossed out neatly or in supplementary answer booklets which must be submitted to the invigilator.
- h) A student leaving the examination hall must sign out and hand his script(s) to the invigilator before leaving if he does not intend to return.
- i) A student who leaves the examination room shall not be readmitted unless throughout the period of his/her absence, he/she has been continuously under the supervision of an invigilator or examination attendant.
- j) No student shall be allowed to leave during the first thirty minutes or the last ten minutes of the examination.
- k) No student shall speak to any other student or make any noise or disturbance during the examination. A student must not indirectly give assistance to any other student or permit any other student to copy from or otherwise use his/her papers. A student must not directly or indirectly accept assistance from any other student or use any other student's paper.
- l) **Mobile Phones** are **BANNED** into Examinations Halls. A Student shall **not use a mobile phone** or any other **unauthorized ICT device** in the **examination hall** for **any purpose; and doing so is an offence**. They should not be introduced into the Examination Halls under any circumstance.
- m) A student is responsible for protecting his/her work so that it is not exposed to other students.

- n) Smoking is forbidden in the examination hall during any examination and in the university premises.
- o) At the end of the time allotted, each student shall stop writing. He shall gather his scripts together and remain seated until all candidates' scripts have been collected. It shall be the candidate's responsibility to ensure that his answer scripts are collected by the invigilator.
- p) Except for the printed question paper, a student must not remove from the examination room or mutilate any paper or other materials supplied.

### **Examination and Academic Misconduct**

Misconduct as mentioned earlier is any action that is contrary to University regulations. Therefore, candidates for any examination are to conduct themselves properly in and around the examination halls. Deviations from proper conducts may constitute examination misconduct.

The vicinity of an examination hall is considered to be part of the examination hall. Thus, any student caught with unauthorized materials or writing in the vicinity of the examination hall (after the student has seen the question paper) shall be treated as if the materials are found on him/her in the examination hall. Similarly, any student caught cheating in any way in students' hostels or other areas shall be appropriately treated.

Examination misconduct discovered during the marking of the examination scripts are also subject to appropriate investigations and further necessary action.

### **Categories of Examination Misconduct**

The following are some of the categories of examination misconduct.

- i. Impersonating another student, or being impersonated by another student at an examination.
- ii. Exchanging names and/or numbers on answer scripts/sheets.
- iii. Introduction and use of relevant unauthorized materials into the examination hall.
- iv. Exchange of materials (such as question papers, examination cards) containing jottings which are relevant to the ongoing examination in the examination hall.
- v. Theft and/or illegal removal of examination scripts.
- vi. Any kind of mischief likely to hinder the smooth conduct of the examination, e.g. engaging in physical violence.
- vii. Collaborating with, or copying from, another candidate.
- viii. Cheating outside the examination hall, such as in toilets, hall of residence, etc.
- ix. Attempt / Destruction of exhibit by candidates.
- x. Facilitating/abetting/aiding cheating by another candidate.
- xi. Acts of misconduct (such as speaking/conversation) during the examination which is likely to disrupt the conduct of the examination.
- xii. Writing on the question paper.
- xiii. Any other misconduct deemed by the Senate to warrant appropriate punishment.

These misconducts carry punishments ranging from written warning, to rustication or outright expulsion.

### **Misconducts Related to Projects, Essays, Etc.**

Students of the Faculty and the University as a whole are reminded to strictly adhere to the universally accepted high standards of academic integrity while writing any work related to their programmes. Deviations from these high standards may constitute misconducts which are punishable by expulsion, rustication or warning depending on the nature of the misconduct. Some of the offences include the following:

- a) Submitting a final year project that was written by someone else.
- b) Submitting, as final year project, a work submitted earlier for another purpose by her or by others, at the university or somewhere else.
- c) Repackaging a whole project as his or her product.
- d) Substantial plagiarism of the work of others in final year projects.
- e) Fabrication or intentional misrepresentation of data used in final year projects.
- f) Intentional sabotage of the final year project (or part thereof) of other students.
- g) Failure to credit sources in final year projects
- h) Faking of citations in final year projects.

### **Dressing and Dress Code**

Dress Code is here defined as any appropriate or formal or informal dress and dressing style in which there is no attempt to expose the body's intimate parts. A dress should have sleeves and extend from the neck to just below the knees. Students of the Faculty and indeed the University at large are required to dress decently at all times.

### **The following types of dresses are prohibited**

1. Transparent dress that highlights or emphasizes the body's, sensual parts, such as the thighs, breasts, etc.
2. Unbuttoned shirts without a t-shirt or a singlet, or an under wear cloth.
3. Clothes that illustrate, enhance, or depict drugs, alcohol or have offensive and violent messages / inscriptions.
4. Clothes that display weapons or any gang-related illustrations and messages/ inscriptions.
5. T-shirts or clothes with obscene captions.
6. Shorts and skimpy dresses e.g. body hugs, show-one-your-chest, and dresses exposing sensitive parts.
7. Tights, shorts and skirts that are above the knees (except for sporting purposes).
8. Wearing of ear-rings by male students,
9. Plaiting or weaving of hair by male students.
10. Wearing of colored eye glasses, not on medical grounds in the classroom.

### **Penalties for Violation of the Dress Code**

1. Violators will not be allowed into classrooms, lecture halls, laboratories, and offices of the university.
2. Violators will not be allowed in examination halls.
3. Repeated offenders will face disciplinary action.

**CURRICULUM FOR BACHELOR OF FISHERIES AND AQUACULTURE**  
**(B. fisheries and Aquaculture)**  
**DEGREE PROGRAMME OF BAYERO UNIVERSITY, KANO**

**PHILOSOPHY AND OBJECTIVES**

**(a) Philosophy**

The Faculty of Agriculture, Bayero University, Kano, offers a Five-year B. Fisheries and Aquaculture Degree Programme as specified in the National Universities Commission, Approved Minimum Academic Standard (AMAS). In line with the overall philosophy of the University, the programme shall focus on the production of graduates that are well equipped in theoretical knowledge and practical skills in the production and sustenance of fisheries and aquacultural resources.

**(b) Objectives**

The objectives of B. fisheries and Aquaculture programme are to:

- (1) Produce graduates with orientation towards self-employment
- (2) Produce graduates with sufficient technical knowledge and entrepreneurship skills in all aspects of fisheries.
- (3) Produce graduates that are well equipped with up to date techniques in fisheries necessary for sustainable fish production.

**ADMISSION REQUIREMENTS**

**i. General 'O' level Requirements**

The requirement for the B. Fisheries and Aquaculture Degree Programme is the Senior Secondary School Certificate Examination (SSCE) WAEC/NECO, GCE O' Level or its equivalent. Candidates must possess five 'O' Level credits in relevant subjects (English, Mathematics, Chemistry, Biology/ Agricultural Science and Physics) obtained at not more than two sittings.

**ii. University Tertiary Matriculation Examination (UTME) Entry Mode**

To gain admission into 100 Level of the Five-year B. Fisheries and Aquaculture Programme, candidates require an acceptable performance in the University Tertiary Matriculation Examination (UTME) in the relevant subjects which include English, Chemistry (Compulsory), Biology/ Agricultural Science and one of Mathematics, Physics or Geography.

**iii. Direct Entry (DE) Mode**

To be eligible for direct entry into 200 Level, candidate must have met the matriculation requirements in the relevant subjects plus;

- Chemistry (Compulsory), Biology or Agricultural Science and one of Mathematics or Physics or Geography as IJMB 'A' level subjects with a minimum of 8 points.
- NCE (Double Major) in Agriculture or NCE Biology and Chemistry combination with average grade 'B' (8 points) minus Education.
- National Diploma in Agriculture or Agricultural Technology, or Fisheries or Fisheries Technology or any relevant course with upper credit.
- Higher National Diploma in Agriculture or Agricultural Technology or any relevant course with lower credit.

## COURSE STRUCTURE

### 100 Level - First Semester

<b>Code</b>	<b>Course Title</b>	<b>Credit Units</b>
BIO1201	General Biology I	2
BIO1203	General Biology III	2
CHM1230	Inorganic Chemistry	2
CHM1240	Organic Chemistry	2
GSP1401	Use of English	4
MTH1301	Elementary Mathematics I	3
PHY1210	Mechanics	2
PHY1220	Electricity & Magnetism	2
PHY1170	Physics Practical	1
<b>Total</b>		<b>20</b>

### 100 Level - Second Semester

<b>Code</b>	<b>Course Title</b>	<b>Credit Units</b>
BIO1202	General Biology II	2
BIO1204	General Biology IV	2
CHM1250	Physical Chemistry	2
CHM1270	Practical Chemistry	2
MTH1303	Elementary Mathematics III	3
PHY1230	Behaviour of Matter	2
PHY1180	Physics Practical	1
<b>Total</b>		<b>14</b>

### 200 Level - First Semester

Code	Course Title	Credit Units	Pre – requisite
AGR2203	General Agriculture	2	
AEE2201	Principles of Agricultural Economics	2	-
AGN2301	Crop Anatomy, Taxonomy and Physiology	3	BIO1203/BIO1204
AGN2203	Principles of Crop Production	2	-
AGR2201	Introduction to Forest Resources Management.	2	-
ANS2301	Anatomy and Physiology of Farm Animals	3	BIO1202/BIO1204
CRP2301	Agricultural Zoology	3	-
SSC2301	Introduction to Soil Science I	3	-
GSP2202	Nigerian Government and Economy	2	-
GSP2222	Peace and Conflict Resolution	2	
GSP2401*	Use of English	4	
<b>Total</b>		<b>24/28*</b>	

**\*For Direct Entry (DE) Students only**

### 200 Level - Second Semester

Code	Course Title	Credit Units
AEE2202	Household Resource Management	2
AGN2202	Principles of Horticulture	2
AGR2202	Introduction to Computer and its Application	2
AGR2204	Introduction to Food Science and Technology	2
ANS2202	Principles of Animal Production	2
ANS2204	Introduction to Agricultural Biochemistry	2
ANS2206	Introduction to Fisheries and Wildlife	2
CRP2202	Agricultural Microbiology	2
GSP2201	Foundation of Nigerian Culture	2
SSC2202	Agricultural Climatology	2
<b>Total</b>		<b>20</b>

### 300 Level - First Semester

Code	Course Title	Credit Units
FAQ3201	Fish Biology	2
FAQ3203	Ichthyology	2
FAQ3205	Limnology	2
FAQ3207	Fish Ecology	2
FAQ3301	Aquaculture	3
FAQ3209	Aquatic Flora and Fauna	2
FAQ3303	Fish Farming Techniques and Hatchery Management	3
AEE3201	Introduction to Agricultural Extension and Rural Sociology	2
AGR3201	Statistics and Research Methods	2
<b>Total</b>		<b>20</b>

### 300 Level - Second Semester

Code	Course Title	Credit Units
FAQ3202	Fish Nutrition	2
FAQ3204	Fish Gear Technology	2
FAQ3206	Fish Parasites and Diseases	2
FAQ3208	Elementary Seamanship and Navigation	2
FAQ3210	Oceanography	2
FAQ3214	Fish Pond Construction and Management	2
FAQ3216	Fish Adaptation and Physiology	2
AEE3202	Extension Teaching, Learning Process and Methods	2
AEE3204	Principles of Agricultural Marketing	2
SSC3202	Soil and Water Conservation	2
<b>Total</b>		<b>20</b>

#### 400 Level - First Semester

Code	Course Title	Credit Units
FAQ4301	Fish Pond Construction and Management	3
FAQ4303	Fish Hatchery Management, Fingerling and Fry Production	3
FAQ4305	Fish Gear Use, Design, Production and Maintenance	3
FAQ4307	Fish Processing, Preservation and Marketing	3
FAQ4201	Fish Production, Management and Accounts	2
AGR4406	Industrial Training	4
<b>Total</b>		<b>18</b>

#### 400 Level - Second Semester

Code	Course Title	Credit Units
FAQ4202	Fish Nutrition and Fish Food Technology	2
FAQ4204	Aquatic Environment Survey	2
FAQ4206	Oceanography Techniques	2
FAQ4208	Fisheries (aquaculture) Engineering	2
FAQ4210	Integrated Fish Culture and Extension	2
AGR4207	Agricultural Tour	2
AGR4208	Seminar	2
AGR4409	Entrepreneurial Skills	4
<b>Total</b>		<b>18</b>

**NOTE:** Allocation of courses was based on seasons (dry/wet). However, the Field Practical Committee of the Faculty has the mandate to interchange courses between the First and Second Semesters depending on the seasons (dry/wet) as the case may be.

Students should note the following:

- Students with more than 12 credit unit carryover will not proceed to the Practical Year.
- 75% attendance is required in all aspects of the Field Practical Training.
- Students are to submit written reports at the end of each course for grading.

### 500 Level - First Semester

<b>Code</b>	<b>Course Title</b>	<b>Credit Units</b>
FAQ5301	Fish Production and Management	3
FAQ5201	Production of other Aquatic Products	2
FAQ5203	Fish Population Dynamics	2
FAQ5205	Administration and Programme Planning in Extension	2
AGN5201	Field Experimentation	2
AEE5211	Agricultural Project Appraisal, Management and Evaluation	2
ANS5205	Nigerian Feeds and Feeding Stuffs	2
AGN5307	Horticultural Crop Production	3
AEE5209	Agribusiness Management and Finance	2
ANS5201	Poultry and Hatchery management	2
<b>Total</b>		<b>22</b>

### 500 Level - Second Semester

<b>Code</b>	<b>Course Title</b>	<b>Credit Units</b>
FAQ5202	Fish Nutrition	2
FAQ5204	Fishery Technology, Processing and Storage	2
FAQ5206	Water Quality Management and Pollution Control	2
FAQ5208	Fish Farming Engineering	2
FAQ5210	Fishery Policy and Legislation	2
FAQ5212	Organic Fish Production	2
FAQ5214	Fishery Economics	2
FAQ5216	Ornamental Fisheries and Aquaria Design	2
FAQ5400	Project	4
<b>Total</b>		<b>20</b>

## DISTRIBUTION OF UNITS IN THE FIVE YEAR PROGRAMME

COURSES	One	Two	Three	Four	FAQ
Agric. Economics & Extension	-	4	6	-	4
Agronomy	-	7	-	-	5
Animal Science	-	9	-	-	4
Crop Protection	-	5	-	-	-
Soil Science	-	5	2	-	-
AGR	-	8	2	12	-
Fisheries & Aquaculture	-	-	30	24	29
Forestry & Wildlife Management	-	-	-	-	-
Food Science & Technology	-	-	-	-	-
Optional	-	-	-	-	-
Science	30	-	-	-	-
General Studies	4	6/10*	-	-	-
<b>TOTAL</b>	<b>34</b>	<b>44/48*</b>	<b>40</b>	<b>36</b>	<b>42</b>

\*For Direct Entry (DE) Students only



Nigeria. Silviculture; shelterbelt establishment, Agroforestry, afforestation characteristics of major timber and their uses. Felling and log transportation.

**ANS2301 Anatomy and Physiology of Farm Animals 3 Credits (2+1)**

Gross anatomy of farm animals (cattle, sheep, goats, donkeys, camel etc); Fundamentals of cell biology; Cell types; Body systems -nervous, skeletal, muscle, bone, circulatory, reproductive and digestive anatomy and physiology; special senses and other systems of farm animals. Systems role in homeostasis, Physiology of lactation, temperature regulation, excretion and reproduction. Introduction to environmental physiology.

**CRP2301 Agricultural Zoology 3 Credits (2+1)**

*Helminthology*: Phylum Platyhelminthes; general characteristics and morphology of the class Trematoda and sub-classes Monogenea and Digenea. General characteristics and morphology of the class Cestoda and sub-classes Cestodaria and Eucestoda. General characteristics and morphology of the class Nematoda and sub-classes Secernentea and Adenophorea. The plant parasitic nematodes.

*Arthropods*: Outline of biological nomenclature; the position of the phylum Arthropoda in the Animal Kingdom. The classification of the Arthropoda; particular mention of the classes: Diplopoda, Cheilopoda, Crustacea, Arachnida and Insecta; their morphology and biology. The class Insecta-its abundance, variability and versatility and the class-Apterygotes, Exopterygotes and Endopterygotes. The major insect orders-their diagnostic morphological features; important families and species. Elementary insect physiology and ecology.

**SSC2301 Introduction to Soil Science I 3 Credits (2+1)**

History of soil science; soil forming factors and soil formation; Rocks and minerals – their classification and weathering; soil morphological characteristics; introduction to soil survey and classification; the chemical and biological composition of soils, charge development and charge characteristics of soil colloids, cation and anion adsorption, dissolution of minerals, and precipitation reactions in soil, oxidation-reduction, soil acidity and salinity; soil microbial ecology, soil organic matter and the biogeochemical cycles of N, S and P.

**SSC2202 Agricultural Climatology 2 Credits (1+1)**

The principles, aims and scope of climatology and biogeography. The elements and controls of climate and weather and the dynamics of the earth's atmosphere. Radiation and heating of the atmospheric systems, atmospheric moisture, the dynamics of pressure and wind systems. Condensation and precipitation processes. Seasonal variations in temperature, day length, radiation rainfall and evapotranspiration. The tropical climate. Relation between agriculture and climate with reference to crops, livestock, irrigation, pests and diseases. Equipment and maintenance of standard meteorological stations.

**AEE2202 Household Resource Management 2 Credits (2+0)**

Philosophy, scope and objectives of home economics. Historical development of home economics. Examination of basic human needs (food, clothing, shelter and health). Programme approaches in home economics which will help meet this need. Preparation for careers in a variety of occupations. Concept of family as a social unit. Concept of household as an economic unit. Definition of terms related to household resource

management. Extended roles of home economics in the face of Globalization. Global trend and household resource management. Designing and implementation of home economics research in rural areas. Socio – economic and gender analysis as a tool for conducting household resource management research. Case studies.

**AGN2202 Principles of Horticulture 2 Credits (1+1)**

Definition of Horticulture and its history. Essentials of nursery management; soil and water management, nursery structures, compost, tools and equipments, nursery material. Environmental factors in vegetable and fruit growing. Propagation of plants; sexual and asexual reproduction: vegetative propagation, budding, grafting and layering, pruning and training of horticultural plants. Ornamental gardening.

**AGR2202 Introduction to Computer and its Application 2 Credits (1+1)**

History of computers. Characteristics and basic components of computer. Functions of computer. Word processing. Spread sheet/data management. Visual presentation. The worldwide web and Internet connectivity/access.

**AGR2204 Introduction to Food Science and Technology 2 Credits (1+1)**

Definition and scope of food science and technology. Food distribution and marketing. Food and its functions. Food habits. Food poisoning and its prevention. Principles of food processing and preservation. Discussion of different preservation methods. Deterioration and spoilage of foods, other post-harvest changes in food. Contamination of foods from natural sources. Composition and structures of Nigerian/West African foods, factors contributing to texture, colour, aroma and flavour of food. Cost, traditional and ethnic influences of food preparation and consumption patterns.

**ANS2202 Principles of Animal Production 2 Credits (1+1)**

Animal production and its development; the livestock industry – problems and prospects. Description of the breeds of cattle, sheep, goats, pigs, poultry and rabbits. Systems of livestock production. Feeding habit of farm animals. Principles of breeding and livestock judging. General principles of management of the different types of farm animals.

**ANS2204 Introduction to Agricultural Biochemistry 2 Credits (1+1)**

Chemistry of carbohydrates, lipids, proteins and nucleic acids. Water Chemistry; Vitamins and their coenzyme functions. Minerals. The nature, classification and functions of enzymes and hormones.

**ANS2206 Introduction to Fisheries and Wildlife 2 Credits (1+1)**

The important fishes and wildlife of West Africa with emphasis on Nigerian species. Classification, evolution, morphology, adaptation and basic structures of fish; Life cycle and significance of principal fishes of West Africa. The wildlife industry in Nigeria; Principles of Wildlife Management and Production; Significance of Wildlife in nutrition and economy of Nigerians.

**CRP2202 Agricultural Microbiology 2 Credits (1+1)**

General characteristics, morphology, reproduction and strain reaction of Bacteria. Principles of classification of Bacteria. Distribution, isolation and cultivation of Bacteria. Disinfectants, antiseptics and methods of sterilization. General characteristics,

morphology, and cytology of Fungi. Modification of vegetative hyphae. Classifications-the Kingdom Mycetae and the divisions Gymnomycota, Mastigomycota and Amastigomycota. Brief consideration of important subdivisions, class and sub-classes. Soil-borne fungi: type, importance, distribution and mode of dispersal. Survival and competitive ability of soil-borne fungi. General characteristics, morphology and reproduction of viruses.

### **300 Level**

**FAQ3201                      Fish Biology    2 Credits (1+1)**

The gross external and internal anatomy of a typical bony and a typical cartilaginous fish. The different types of anatomical systems and basic functions of each system of organs in the fish. Embryology and life history of a fish with special reference to commercially important fish e.g. tilapia, clarias, catfish and mullet. (1 hour of lectures and 3 hours of practicals per week).

**FAQ3203                      Ichthyology (Systematics of Fish)    2 Credits (1+1)**

Principles of systematics. Taxonomy and detailed study of principal commercial species of Nigerian fish; inland, estuarine and ocean, water invertebrates and reptiles. Identification of species using keys and monographs. Important world species; sardine, tuna, anchornveta etc. Biological attributes of fish populations. Phylolgenetic relationship. (1 hour of lectures and 3 hours of practical per week).

**FAQ3205                      Limnology    2 Credits (1+1)**

Physical and chemical properties of both inland and sea water. Hydrology and water cycles. Properties of natural and man-made lakes. Thermal properties and stratification. (1 hour and 3 hours of practical per week).

**FAQ3207                      Fish Ecology    2 Credits (1+1)**

Ecology of fishes with special reference to distribution and natural history and application of this knowledge for fisheries management and obtaining maximum returns from fishery resources. Characteristics of the aquatic environment. Organic production in aquatic fauna and flora-algal blooms and eutrophication; plankton, and benthos, biomass assessment. Food and feeding habit of fish, food and habit selection, population, niche concept. Food chains. Reproductive behaviour of and life cycles of some selected species. (1 hour of lectures and 3 hours of practicals per week).

**FAQ3301                      Aquaculture    3 Credits (2+1)**

Aims and types of aquaculture. History, present organization and status of aquaculture in Nigeria. Principles of aquaculture - liming and pond fertilization; food supply; growth rate and food conversion; selection of culture species, introduction of exotic species and their implications. Water requirements. Stocking, feeding and harvesting practices. Fish farm design. Economic consideration of aquaculture (2 hours of lectures and 3 hours of practical per week).

**FAQ3209 Aquatic Flora and Fauna 2 Credits (1+1)**  
Study and identification of the characteristic flora and fauna of importance in the fresh water and coastal swamps of the tropics. The ecology, utilization and management of aquatic flora and fauna. Control of aquatic weeds in ponds – chemical, mechanical and biological. (1 hour of lectures and 3 hours of practical/week).

**FAQ3303 Fish Farming Techniques and Hatchery Management 3 Credits (2+1)**  
Artisanal and commercial fishing methods and importance in fishing boats, trawlers and gears – hooks, traps and nets – different types of fish culture techniques, monoculture, polyculture, selected breeding, intensive and extensive culture in inland and brackish water, in rice fields, in floating cages and rafts. Gear selectivity; electro fishing. Spawning methods; artificial fertilization; incubation, rearing, harvesting and transportation of fry and fingerlings. Selection and care of breeders; larvae and fingerlings. Control of weeds, parasites and diseases in the hatchery, control of physiochemical properties of water. (2 hours of lectures and 3 hours of practical/week).

**AEE3201 Introduction to Agricultural Extension and Rural Sociology 2 Credits (2+0)**  
The need for agricultural extension. Agricultural extension in the world and in Nigeria, basic philosophies behind agricultural extension work. The institutional setting of agricultural extension. Basic concepts and principles of rural sociology to an understanding of rural situation. Importance of rural communities and institutions, social stratification, social processes and social changes in rural areas. Extension and rural youth; Leadership in rural communities; role and functions of rural leaders. Development of rural community leaders. The extension agent and the rural community. Communication techniques and strategies of change. Various agricultural extension teaching methods, aids and their use.

**AGR3201 Statistics and Research Methods 2 Credits (2+0)**  
Basic concepts of statistics; frequency distribution; measures of location; measures of variation; probability distribution, normal and binomial distribution; histograms, sampling, data collection, data processing techniques, statistical inferences, tests of significance (F-Test, t-Tests, chi-square); correlation and regression analyses; goodness of fit; research objectives; research design, field experimentation.

**FAQ3202 Fish Nutrition 2 Credits (1+1)**  
Principles of fish nutrition. Chemistry and Nutritive value of various classes of fish food. Nutrient requirements of fish. Nutrient sources and practical consideration in fish feeding.

**FAQ3204 Fishing Gear Technology 2 Credits (1+1)**  
Study of types of gear and fishing craft. Properties of the materials used in the construction of fish gears. Construction of hooks, traps and nets. Assessment of efficiency of fishing gear. (1 hour of lectures and 3 hours of practical/week).

**FAQ3206 Fish Parasites and Diseases 2 Credits (1+1)**  
Identification, morphology, taxonomy, life history of fish parasites. The ecological and pathological effects of parasites and diseases of fish. Epidemiology of parasites

populations in water body. Common bacterial, fungal and viral fish diseases and their control. Other enemies of fish. International restriction blinding the transportation of fish across country boundaries. Fish ponds and public health. (1 hour of lectures and 3 hours of practicals per week).

**FAQ3208 Elementary Seamanship and Navigation 2 Credits (1+1)**

Important sea terminology; parts of a boat, strength of wind and state of sea. Coast lights and light vessels. Measures for distance, depth, speed etc. launching and boarding of small boats. Life saving and fire fighting equipment and methods. Swimming. (1 hour of lectures and 3 hours of practicals/week).

**FAQ3210 Oceanography 2 Credits (1+1)**

Study of the temperature and chemistry of sea water and inland water bodies. Biological activities and their distribution. Salinity, chlorinity, currents, tides, waves, sound and radiation in the sea, conductivity diffusion, viscosity and dynamics of sea water. Distribution and behaviour of plankton. Brackish water conditions and fauna. Interrelationship of and physiological adaptations of marine organisms. (1 hour of lectures and 3 hours of practicals/week).

**FAQ3214 Fish Pond Construction and Management 2 Credits (1+1)**

Principles of fish pond construction. Preparation of ponds for stocking. Management of flora and water quality, maintenance of ponds. Harvesting from ponds. (1 hour of lectures and 3 hours of practicals/week)

**FAQ3216 Fish Adaptation and Physiology 2 Credits (1+1)**

The different shapes and adaptive designs in fish in relation to the aquatic environment. Natural environmental adaptation of fish, migration, reproduction, feeding habits, salinity, temperatures and life cycles. Modified environmental behaviour of fish to pressure, light, electrical field and noise. (1 hour of lectures and 3 hours of practicals/week).

**AEE3202 Extension Teaching, Learning Process and Methods 2 Credits (2+0)**

Nature and elements of communication process. Principles of analyzing communication problems in extension. The meaning of the concepts of teaching, learning and motivation. Steps and principles of teaching and learning. Extension teaching methods. Preparation and use of teaching materials and aids.

**AEE3204 Principles of Agricultural Marketing 2 Credits (2+0)**

The Market and Marketing Process, Relations of Marketing to Economic Development; Marketing Functions and Marketing Agencies (Institutions).Market Structure, Conduct and Performance, Marketing Channels, Margin and Efficiency. Grains, Fruits, Vegetable, Roots, Cotton and Livestock Marketing. Marketing for Agricultural Inputs. The Role of Agricultural Cooperatives. Problems of Agricultural Marketing.

**SSC 3202 Soil and Water Conservation 2 Credits (1+1)**

Hydrologic cycle and measurement of its components (precipitation, evapotranspiration, surface run-off, etc). Rainfall-run-off relationships. Flow dynamics. Soil water balance. Hydrographs, management of ground water and uses. Water harvesting techniques. Conservation of water in the soil. Tillage effects on soil and crops. Soil erosion including its estimation and prediction. Extent of erosion hazards in Nigeria and review of control measures.

**500 Level**

**FAQ5301 Fish Production and Management 3 Credits (2+1)**

Practical aspects of handling and care of fish. Breeding of fish. Production of fingerlings and fries; management of breeders; growers and other types of fish and marine products; buildings and equipment needed in a fish farm; procurement of feed and systems of feeding. Harvesting and marketing. Appraisal of management structure and effectiveness of fisheries management policies. Preparation of management plan for fisheries project.

**FAQ5201 Production of other Aquatic Products 2 Credits (1+1)**

Ecology, life histories of crustacea and aquatic mollusk culture of shrimps, oysters; crabs, crayfish, lobster, cockles, periwinkles, marine gastropods, frogs, edible sea weeds and fresh water plants. Deep sea and shore farming of some products. Processing and preservation of marine products. (1 hour of lectures and 3 hours of practical/week).

**FAQ5203 Fish Population Dynamics 2 Credits (1+1)**

Fishing effort and catch per unit effort. Population estimation, age and growth; natality and mortality. Computation of yields from given recruitment. Stock assessment.

**FAQ5205 Administration and Programme Planning in Extension 2 Credits (1+1)**

Concepts, theories, principles and guideline of administration, organization, supervision as applied to extension; importance of programme planning in extension. Principles and concepts of programme planning in agricultural extension need, educative objective, learning experience, clientele participation, plan of work, calendar of work. The role of good public relations, good leadership and cooperation for an extension worker. Associations and cooperatives; concepts of evaluation applied to agricultural extension programmes.

**ANS5205 Nigerian Feeds and Feeding Stuffs 2 Credits (1+1)**

Classification of foods, feeding stuffs and feed supplements. An extensive coverage of the chemistry and nutritive values of succulent feeding stuffs, concentrate feeds (cereals and legumes). Chemistry and Nutritive values of some Nigerian grasses and legume species. Consideration of methods of their biological value evaluation.

**AGN5201 Field Experimentation 2 Credits (1+1)**

Basic concepts of field experimentation; principles of field experimentation in fish, fishery and Animal sciences; research methodology; experimental designs (CRD, RCBD, Latin square, split-plot and factorial experiments) and layout; selection of designs for

specific situations; field survey and sampling techniques; collection and analysis of data; presentation and interpretation of results.

**AGN5307 Horticultural Crop Production 3 Credits (2+1)**

Ecological distribution of fruits and vegetables in Nigeria; types and systems of fruits and vegetable production; origin, distribution, importance and utilization, ecological requirements, improved varieties and varietal characteristics, production practices, harvesting, processing, storage and marketing of mango, citrus, banana, plantain, pineapple, tomato, onion, pepper, carrots, okra, amaranths, etc; horticultural machines and equipment; principles of producing, planting, maintaining ornamental trees, shrubs, perennials and fruits in the nursery, home and parks.

**AEE5209 Agribusiness Management and Finance 2 Credits (2 + 0)**

The scope of agricultural business and management; types of agricultural business management and organizations; enterprise selection; production planning; public policies affecting agricultural business farm growth; organization of large scale farms; legal organization and tax strategies; economics of agricultural processing; marketing management; principles of agricultural finance; principles of farm credit; capital needs of agricultural industries; sources of loan funds and collateral security for loans; credit agencies and government credit policy and approaches to efficient credit management; farm accounting; inventory, balance sheet, cash book, cash book analysis

**ANS5201 Poultry and Hatchery Management 2 Credits (1+1)**

Poultry buildings and equipment; incubation and hatchery; management of eggs production in chicken, turkey, geese, duck and guinea fowl. Application of the principles of feeding, housing, care and breeding of poultry. Carcass cuts in poultry and measures of carcass quality. Poultry meat and egg processing and marketing.

**FAQ5202 Fish Nutrition 2 Credits (1+1)**

Principles of fish nutrition. Requirements for energy, protein, vitamins and minerals, and non-nutrient components; feed computation and formulation methods; the fish feed industry; feed pelleting; fish feed habits; feed evaluation; practical considerations in fish feed. Feed formulation, feed mixing and manufacture of feed on commercial scale.

**FAQ5204 Fishery Technology, Processing and Storage 2 Credits (1+1)**

Post harvest spoilage; principles and methods of preservation, packaging, storage, product evaluation and quality control. Estimation of nutrients in fish flesh. Traditional versus modern preservation techniques.

**FAQ5206 Water Quality Management and Pollution Control 2 Credits (1+1)**

Physical composition of water bodies; water chemistry and nutrient cycles; sampling methods; management of selected marine, brackish and fresh waters. Chemical, mechanical, and biological methods for maintaining and improving water quality; biological, ecological characteristics of polluted water; effect of pollution on fish planktons, benthic macro invertebrates, algae and water quality.

- FAQ5208 Fish Farming Engineering 2 Credits (1+1)**  
General surveying, site selection: Fresh water and brackish water pond construction. Design and construction of dykes, sluice gates, drainage facilities, tanks, ponds, pens, cages, rafts and other types of fish rearing facilities, design of inland fish farms, pumping stations and fish hatcheries.
- FAQ5210 Fishery Policy and Legislation 2 Credits (1+1)**  
Fisheries Institution, Conservation strategies. Fisheries Policy and laws of Nigeria. International Laws of the Sea.
- FAQ5212 Organic Fish Production 2 Credits (1+1)**  
Feeding habits of different organically culturable fish species, requirement of fish, live food production and evaluation techniques. Organic feed ingredients, nutrient composition of feed stuffs, feed formulation, production, evaluation, packaging and storage; feeding practices.
- FAQ5214 Fishery Economics 2 Credits (1+1)**  
Major economic constraints in fishery development; free access fishery, sustainable yield curve and total revenue curve. Bionomic equilibrium, factor rents, welfare economic theory and its relevance for fisheries; externalities in fisheries; capital investment and depreciation of equipment; consumer and consumption patterns; fishery resources and right of ownership.
- FAQ5216 Ornamental Fisheries and Aquaria Design 2 Credits (1+1)**  
Ornamental fish breeding, management and nutrition; design and maintenance of various aquaria.
- FAQ5400 Project (4 Credits)**  
Each student is required to choose and execute a special project under supervision. Duration of the project is two semesters.

**DEPARTMENT OF FISHERIES AND AQUACULTURE  
FACULTY OF AGRICULTURE  
BAYERO UNIVERSITY, KANO**

**LIST OF ACADEMIC STAFF**

<b>S/No</b>	<b>Name</b>	<b>Status</b>	<b>Rank</b>	<b>Area of Specialization</b>	<b>Gender</b>
1.	Dr. Idris Ado Yola	F/T	Associate Professor	Fisheries	Male
2.	Dr. Binta Isyaku Usman	F/T	Lecturer I	Fisheries Biology	Female
3.	Nasir Ma'aruf Ahmed	F/T	Lecturer II	Aquatic Pollution & Fish Toxicology	Male
4.	Isiyaku Mohammed Sani	F/T	Lecturer II	Aquatic Pollution & Fish Toxicology	Male
5.	Musa Usman Aminu	F/T	Assistant Lecturer	Limnology & Aquaculture	Male
6.	Aminu Abubakar Garba	F/T	Assistant Lecturer	Fish Breeding & Genetics	Male
7.	Abdul-Azeez Hassan	F/T	Assistant Lecturer	Fish Biology & Genetics	Male
8.	Zahra'u Rabi'u Mudi	F/T	Assistant Lecturer	Fisheries Biology	Female
9.	Suleiman Adamu Mohammed	F/T	Assistant Lecturer	Aquaculture & Fish Nutrition	Male

F/T: Full time appointment

P/T: Part Time appointment