

THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE
SCHOOL OF AGRICULTURE & AGRICULTURAL TECHNOLOGY



DEPARTMENT OF FISHERIES AND AQUACULTURE TECHNOLOGY

STUDENTS HANDBOOK
2016/2017 – 2017/2018 ACADEMIC SESSIONS

PREFACE

This handbook is a compendium of the goals, services, rules, regulations and curriculum of the Department of Fisheries and Aquaculture Technology, The Federal University of Technology, Akure. It is an indispensable reference book elucidating what the Department expects from all students, what the students expect from the Department and how the vision and mission of the Department are to be achieved/actualized.

This handbook is divided into six sections: (i) Vision, mission, philosophy and objectives of the Department; (ii) Background information on the Department; (iii) Admission and graduation requirements; (iv) policies procedures, and regulations; (v) Curriculum (course synopsis) and (vi) Staff list. The Department runs a five-year degree programme for UTME entry students and four-year degree programme for direct entry students leading to the award of B.Tech Degree in Fisheries and Aquaculture Technology. The first year (100 level) of the programme is devoted to the teaching of General Studies and Basic Science courses. During the second year (200 level) of the degree programme, students are taught General Agriculture and basic courses from all Departments of the School of Agriculture and Agricultural Technology (SAAT). The remaining three years (300-500 level) are used to teach core courses in Fisheries and Aquaculture Technology as well as elective courses. The programmes of the Department incorporate academic work with remarkable measure of practical training.

This handbook will assist in the orientation of new students and provide all students of the Department with an up-to-date reference on important matters relating to their stay in the Department and University in general.

It is the duty of each student to understand and comprehend the contents of the handbook and acquaint themselves with all policies, rules and regulations therein. Ignorance of policies, rules and regulations of the department and that of the university in general will not be considered as an excuse for failure to observe it.

The information provided and policies, rules and regulations enunciated in the handbook are not intended to be all-embracing and do not constitute a contract. The Department reserves the right at any time to supplement, amend or abrogate its policies, rules and regulations from time to time.

BACKGROUND INFORMATION ON THE DEPARTMENT

The Department of Fisheries and Aquaculture Technology (FAT) was split from the erstwhile Department of Fisheries and Wildlife (FWL) in 2008. The parent Department (FWL) was one of the pioneering Departments when the University was established in 1981. The first set of students of Fisheries and Aquaculture Technology were admitted in 2008/2009 session. There has been continuous admission since then. The total number of students admitted into the Department in 2016/2017 was 192 students. Presently the Department has a student population of 447. The Department produced the first set of graduates in 2013/2014 session.

The Department is endowed with caring, competent, dedicated, highly experienced and knowledgeable staff. The Department has academic and non-academic staff led by the Head of Department. Dr. O.A. Bello-Olusoji (January 2008- January 2010), Dr. E.O. Adeparusi (January 2010 – July 2013), Prof. L.C. Nwanna (August 2013 – July 2015), Prof. O.T. Adebayo, (August 2015-July 2018) and Prof. A.A. Dada (the current Head of Department). The total number of academic staff is eighteen (18) distributed as follows: Nine (9) Professors, two (2) Senior Lecturers, three (3) Lecturer I, and four (4) Lecturer II. On the technical staff cadre, the Department has one (1) Chief Technologist, two (2) Principal Technologists, one (1) senior technologist, one (1) Technologist 1, one (1) Head laboratory Assistant, three (3) Laboratory/Fisheries Attendants and two (2) Confidential Secretaries. Many strategic positions have been held in the University and outside by senior members of the Department such as Prof. A.M. Balogun (former Dean SAAT, former Deputy Vice-Chancellor Development and former Vice-Chancellor); Prof O.A. Fagbenro (former Dean of Students and former Director of Academic Planning); Prof. E.A. Fasakin (former Dean of Students, Former Deputy Vice-chancellor, former Acting Vice-Chancellor and currently Rector, Federal Polytechnic, Ile-Oluji.); Prof. E. O. Adeparusi (former Associate Director, FUTA CEGIST), Prof. O.T. Adebayo (former Sub-Dean SAAT) and Prof.(Mrs) M.O. Olufayo (former Sub-Dean SAAT).

The Department has five laboratories (Limnology, Analytical/Quality Assurance, Nutrition Laboratory, Postgraduate Dry laboratory and Prof. Balogun FAT Postgraduate laboratory). The Department has teaching and research fish farm for fish production and students' practical demonstrations. The farm has 3 production ponds, 24 experimental ponds, 26 experimental concrete tanks, integrated fish-cum-poultry-rice pond, a feed mill, indoor hatchery and re-circulatory aquaculture systems, and smoking kilns.

Prof. A.A. Dada
Head of Department

Vision of the Department

In line with the main vision of the University, the Department of Fisheries and Aquaculture Technology of the Federal University of Technology Akure, strives to remain one of the leading Fisheries and Aquaculture Departments in the Universities all over the world.

Mission of the Department

The Department of Fisheries and Aquaculture Technology of the Federal University of Technology, Akure will continue to be on the vanguard of educating and producing sound technologically oriented and self-reliant students that are job creators and not just job seekers.

TABLE OF CONTENTS

PREFACE

VISION AND MISSION

TABLE OF CONTENTS

HISTORICAL BACKGROUND

PROGRAMME PHILOSOPHY

PROGRAMME OBJECTIVES

ADMISSION REQUIREMENTS

REQUIREMENTS FOR GRADUATION

GENERAL ACADEMIC REGULATIONS FOR DEGREE COURSES

GENERAL REGULATIONS

REGULATIONS ON EXAMINATION OFFENCES AND PUNISHMENTS

EXAMINATIONS, ON AND OFF CAMPUS OFFENCES AND PENALTIES

LIST OF TEACHING AND RESEARCH FACILITIES

THE B. TECH. CURRICULUM

COURSE OUTLINE

COURSE DESCRIPTIONS

STAFF LIST

PROGRAMME PHILOSOPHY

The philosophy that guides this programme is the production of skilled manpower that is adequately trained and equipped with comprehensive knowledge required to be self-reliant in fish production. Such students are to be trained in an atmosphere with the widest possible human and material resources, through the adoption of effective techniques of instruction and exposure to the actual practice of fisheries management and aquaculture production. Consequently, there are opportunities for formal training at the undergraduate and postgraduate levels for the acquisition of basic and higher degrees, respectively. These training programmes are mounted through classroom instructions, laboratory and field practical demonstrations and Students' Industrial Work Experience Scheme (SIWES). The programme prepares the graduates to be self-reliant in fish production and can be employed in any fisheries establishments and other related industries.

PROGRAMME OBJECTIVES

The major objectives of the Department are to:

- a. provide training and assist in the attainment of self-sufficiency in fisheries and aquaculture production;
- b. provide opportunities for goal oriented research in fisheries and aquaculture relevant to the country's needs in general and local needs in particular;
- c. offer the public the results of research output and foster the practical application of these results;
- d. contribute to the achievement of the goal of marked increase in fish production and provision of raw materials to support the growth of industries;
- e. enhance the rural employment opportunities and attendant improvement of the quality of rural life; and
- f. participate effectively in sustainable fish production through collaboration with Federal, State and Local governments, government ministries and parastatals, fisheries research institutes and other international organizations in the field of fisheries and aquaculture.

ADMISSION REQUIREMENTS

a) **UTME Admission**

Admission into the first year (100 level) of the programme is through JAMB. In order to be eligible for admission, candidates are expected to sit and pass the UTME. Candidate must possess five credit passes in WASCE or NECO or GCE (O/L) or equivalent at a maximum of two sittings in the following subjects: English Language, Mathematics, Chemistry, Biology or any other relevant subject. At least a pass in Physics is required.

UTME Subjects: English Language, Chemistry, Biology or Agricultural Science, Mathematics or Physics.

b) **Direct Entry**

Candidates seeking admission to 200 Level through Direct Entry must possess:

- i) National Diploma with a minimum of Upper Credit or equivalent from FUTA advance Basic Science Program or recognized Polytechnics and Colleges of Technology in relevant disciplines (Agricultural Sciences), or
- ii) GCE (A/L) or equivalent with passes in at least two of the following subjects: Chemistry, Biology and Physics.

Direct entry candidates must also meet the requirements for UTME admission specified in 'a' above.

DURATION OF PROGRAMME:

The duration of the programme is five academic sessions for students admitted through the UTME and four for Direct Entry students. If a student admitted through the UTME fails to graduate in five academic sessions, he or she will NOT be allowed to exceed a total of 15 academic semesters. For Direct Entry students, the maximum residence period is 12 academic semesters.

REQUIREMENTS FOR GRADUATION

To be eligible for the award of B. Agric. Tech. (Fisheries and Aquaculture Technology), a student must have:

- a) passed all core courses as well as all University and School required courses and electives recommended for specialization;
- b) accumulated a minimum of 191 Units for UME students, 148 for Direct Entry students and obtained a CGPA of not less than 1.50, and
- c) successfully completed all field practical, industrial attachment training, seminars and projects.

GENERAL ACADEMIC REGULATIONS

Eligibility for Transfer into other Programmes:

A student of the university is eligible for the specific programme to which he /she was given admission. Transfer to another programme is subject to Senate decision based on the following guidelines for change of School/Department.

Guidelines on Change of School/Department:

1. Applications for a change of degree option shall be approved only when there is a strong justification for it. As much as possible students should be required to pursue to the end, the course to which they have originally been admitted.
2. Permission to change to a new degree option shall be strictly subject to there been a vacancy in the class taking into account the approved student quota for the degree option.
3. Any change of degree option within a School shall be subject to approval of the Dean of the School and the two Heads of Department concerned.
4. Any change of school shall be subject to the approval of both the Deans of the present School and of the proposed School.
5. The Dean of a School shall, for good cause and in consultation with the Board of Studies of the School, have the right to approve or withhold his/her approval of a student's application to transfer either from or into the department within his/her School and/or from or into his/her School.
6. Any student who falls within the guidelines stipulated below may be allowed to change his/her academic programme:
 - a candidate who obtains a CGPA of 3.50;
 - a candidate who has been asked to withdraw from the University for having obtained a GPA/CGPA of less than 1.00 consistently for four (4) semesters.
 - a candidate whose CGPA falls within 1.00-2.39 (i.e. not above Third Class Division) consistently for four semesters provided such candidate;
 - (i) shows evidence to the effect that his/her weak academic standing is predicated on lack of flair and capability for the registered programme; and the Students' Affairs Division submits a Counseling Report on the candidate.
7. Change of degree option shall not be permitted until the student has spent at least four semesters in the University.
8. No student will be allowed to change his/her degree option more than once in the University.
9. No change of degree option shall be allowed beyond five weeks of the commencement of lectures in the first semester of each session.
10. The Board of Studies of the proposed School concerned shall recommend the change of degree option for the student concerned for the approval of Senate.
11. Final approval or rejection of student's request to change degree option shall be formally communicated to the affected student by the Registrar.
12. An applicant for change of academic programme shall not have more than four (4) 100 level courses outstanding at the time of application to qualify for consideration.
13. However, the maximum of four 100 level courses allowed by the regulation for a student to change academic programme should be restricted only to the courses that are offered by the School to which an applicant had applied to be transferred.

Time Frame for Absence from the University

- (i) Any application for the condonment of the period of absence by any student who might be absent from the University without prior approval for two (2) consecutive semesters and above shall not be entertained.
- (ii) Any application for the condonment of the period of absence on the basis of prolonged ill-health for two (2) consecutive semesters and above by any student who failed to inform the university in writing of his/her bad state of health shall not be entertained.
- (iii) In both cases (i.e. (i) and (ii) above), the student shall be deemed to have voluntarily withdrawn from the University.

Maximum Duration of Undergraduate Programme

- (i) The maximum duration for students admitted through the Unified Tertiary Matriculation Examination (UTME) is seven academic sessions and those admitted through the Direct Entry (DE) is six academic sessions.
- (ii) Any student, irrespective of his/her CGPA who could not graduate at the end of his/her seven academic sessions in the University should be required to terminally withdraw from the University.

Academic Matters

Students will meet the Dean or Head of Department or Staff Adviser for advice on academic matters. The Dean or Head of Department or Staff Adviser shall acquaint students with University, School and Departmental requirements and regulations.

Unit Course System

- (a) The unit of courses shall be by the semester, one semester unit being when a class meets one hour every week for one semester or three/four hours every week in the laboratory for one semester or the equivalent in workshop or field work time.
- (b) The size of course shall, as much as possible, be a maximum of three units and its duration shall be one semester except for projects and design courses which may carry more than three units and may last more than one semester.
- (c) A core course is one which must be registered for and passed by a student to get the degree, and is counted towards the classification of his/her degree.
- (d) An elective course is either compulsory or optional. A compulsory elective shall be counted towards the classification of a student's degree. An optional elective is a course that may be taken by the student and may not be counted towards the classification of his/her degree.
- (e) A University required course is a compulsory course prescribed by the University which must be passed before a student can graduate. It would also count towards the classification of the degree.
- (f) An audited course is one which the student attends without writing an examination it.
- (g) Pre-requisite course is one in which the student must pass before proceeding to the higher course.
- (h) Co-prerequisite course is one which may be taken in parallel with the course for which it is specified.

Students' Work Load

Maximum number of units a student can register for is 24 units per semester while the minimum number of units a student can register for is 15 units per semester.

(i) Grading System

The grading system used in the University is presented below:

Mark	Grade	Grade Point
70-100	A	5
60-69	B	4
50-59	C	3
45-49	D	2
0 -44	F	0

(ii) Computation of Results

The following terminologies and abbreviations are commonly used in the computation of Grade Point Average (GPA).

- (a) Total Load Units (TLU): This is the total number of course units carried by a student in a particular semester. It is the summation of the load units on all courses carried during the semester. For example, a student who is taking 6 courses of 3 units each has a TLU of 18 for that semester.
- (b) Cumulative Load Units (CLU): This is the summation of Total Load Units over all the semesters from the beginning to date. A student who is prone to repeating courses will finish (if he does not drop out) with a higher CLU than his non-repeating colleagues, and will most likely require a longer time to complete requirements for the award of degree.
- (c) Total Credit Points (TCP): This is the sum of the products of course units and rating in each course, for the entire semester. For example, consider a student who took 5 courses of 3 units each. Suppose

the grades he obtained in the four courses were A, B, C, D and E. The TCP of this student is obtained as $(3 \times 5.0) + (3 \times 4.0) + (3 \times 2.0) + (3 \times 1.0) = 15.00 + 12.0 + 9.0 + 6.0 = 42.0$.

- (d) **Cumulative Credit point (CCP):** This is the summation of Total Credit Points over all semesters from the beginning to date.
- (e) **Grade Point Average (GPA):** This is the Total Credit Points (TCP) divided by the Total Load Unit (TLU). For example, consider the student's scores referred to above. His/Her TCP is 42.0 and his TLU is 12. His GPA is therefore $42/12 = 3.5$. The higher possible GPA that can be earned is 5.0 and that is when a student has earned a grade of "A" in every course during the semester. The lowest GPA obtained is 0.00.
- (f) **Cumulative Grade Point Average (CGPA):** This is not the summation of GPA's for the semesters. Rather, is the summation of TCP for all semesters to date, divided by the summation of TLU for the said semesters. In effect, $CGPA = CCP/TLU$.
- (g) **Final Assessment and Class of Degree**

Class	CGPA
First Class	4.50 - 5.00
2 nd Class (Upper Division)	3.50 - 4.49
2 nd Class (Lower Division)	2.40 - 3.49
3 rd Class	1.50 - 2.39

For the purposes of determining the class of degree, the CGPA shall cover 100 to 500 level courses,

(iii) **Probation and Withdrawal from the University**

A student whose CGPA falls below 1.0 at the end of first session shall be placed on probation during the following session. If he/she then fails to achieve a CGPA of at least 1.0 at the end of the second session, he shall be required to withdraw from the University. A student will not be placed on probation until the end of the second semester of the first session, thereafter; it shall be from semester to semester. A student on probation shall not carry more than the minimum load of 15 units for the semester for which he/she is on probation. A student who is unable to get out of probation at the end of the first semester shall be on extended probation till the end of the first session but a student who is out of probation at the end of the first semester shall be allowed to carry a maximum load unit during the following semester.

(iv) **Resit Examination**

There shall be no resit examination.

(v) **Carryover Courses**

All failed courses shall be carried over to the corresponding semester of the following year and must be taken and passed before taking higher courses for which such are pre-requisites.

(vi) **Dean's List**

A student who obtains a GPA of 4.50 and above at the end of any semester will have his name published in Dean's List. Each list is valid for only the one semester immediately following the publication of the results and until the publications of the results of the following semester.

(vii) **Duration of Semester**

Each semester shall normally consist of 15 weeks or as determined by Senate (exclusive of the Christmas and Easter vacations and mid-semester breaks) which shall be reserved for teaching and a further two weeks for examinations.

(viii) **Registration for Course Examinations and Procedure for Deleting Courses**

Registration for a course at the beginning of a semester automatically means registration for the course and the examination. A student who wishes to add or delete a course must do so within six weeks of commencement of lectures in the course by completing the prescribed form obtainable from the Academic Affairs Office.

- (ix) **Continuous Assessment**
Assessment of student's achievement shall be continuous. The student shall be periodically informed of his/her standing in the course. Continuous assessment shall be by test and at least three tests shall be given on each course in a semester.
- (x) **Final Examination**
Final written examination for a course shall not normally exceed three hours duration and shall be given only at the time and places established for what purpose by Senate or its designated committee. The final examination for each course shall normally be at the end of the semester in which the course is offered. The course grade will be made up on the student's score in the continuous assessment as well as the end of course examination. The continuous assessment shall carry maximum mark of 40%.
- (xi) **Examination Malpractice**
A student involved in University examination malpractice or who violates examination regulations shall be referred to the disciplinary committee which will recommend appropriate disciplinary action.
- (xii) **Procedure for Seeking a Revision of Marked Scripts at the End of Semester**
- Applications for revision of marked scripts shall be made by any aggrieved student irrespective of the grade obtained on the payment of a prescribed fee.
 - All applications for revision of marked scripts shall be addressed and forwarded to the Registrar through the Dean
 - The receipt of prescribed fee for each course shall accompany the application.
 - The Registrar shall forward the request to the appropriate Dean.
 - The Dean shall appoint a minimum of three independent assessors (internal or external) in consultation with the Head of Department if need be.
 - The Dean shall ensure that the marking scheme and model answers originally used are made available to the assessors.
 - The Dean shall present his/her report before the Board of Studies and thereafter to Senate for consideration and approval.
 - Where the student's case is upheld the application fee shall be refunded.
 - Where the case is not upheld, the student shall forfeit the fee and shall be warned for making frivolous allegations.
 - Where Senate is convinced that the marking-down of a candidate by the lecturer is deliberate such staff shall be reprimanded.

Frivolous Allegation: Making an application for revision of marked scripts by a student which lacks merit but with no imputation of victimization or malevolence shall be regarded as misconduct.

Penalty: Letter of Warning

Malicious Allegation: Making an application for revision of marked scripts by a student with imputation of victimization or malevolence shall be regarded as misconduct.

Penalty: Suspension for two semesters.

- (xiii) **Absence from Examination**
A student who is absent from a course examination without the permission of the Coordinator during or at the end of the semester, will receive a grade of 0 (F). Permission may be granted only on substantiated, compassionate or medical grounds recommended by the School Board of Studies and approved by Senate.
- (xiv) **Carry-over Course Grade**
When a student re-registers for a carry-over course and takes an examination in the course, he/she shall be credited with the actual grade scored.

(xv) **Computation of Examination Results**

- There shall be a Departmental Panel of Examiners to consider all examination results before they are presented to School Board of Examiners.
- Computation of examination results shall be the responsibility of each Chief Examiner/ Head of Department. Computed results must be taken to the School Board of Examinations for consideration.
- The master marks sheets or results must be signed by the Chief Examiner of the Department.
- The School's Board of Examiners shall take measures to ensure the correctness of all results presented to it before they are passed to the School Board of Studies for consideration and ratification for presentation to Senate.

(xvi) **Release of Examination Results**

- The result of each semester examination, signed by the Dean concerned shall be published not later than 24 hours after the meeting of the School's Board of Examiners and shall remain provisional until approval by Senate.
- After Senate approval, the result shall be forwarded to the Registrar who shall have the responsibility of informing the students and their sponsors of the results.
- The seasonal result shall be released to the students before the beginning of the following session.
- All amended results executively approved by the Vice-Chancellor shall come before Senate for ratification.

(xvii) **Certificate**

The Vice-Chancellor and the Registrar shall sign the degree certificate.

(xviii) **Guidelines on Auditing of University Courses**

- A student shall apply for exemption from University required courses(s) or apply to audit the course(s).
- Such application to the Dean of the School and shall be accompanied by the relevant transcript.
- Students seeking exemption from the University required course(s) shall be required to sit the particular examination after having been given the opportunity to audit the course(s) along with the regular students.
- Such student shall be expected to pass the audited course(s).
- Although the results of the audited courses would form part of the academic record of such students, the result would not be used to determine their class of degree.
- Continuous assessment shall be waived in respect of the examination while auditing a University required course and that a pass in the written examination should be sufficient.
- Direct Entry students are expected to audit and pass the following University required courses: GNS 101, GNS 102, 103, MEE 101 & 102.

(xix) **Academic Advisory System**

Every student shall be assigned an academic adviser at the beginning of each session by the Head of Department. The adviser shall assist the student acquaint him/her with School/Department and University rules a regulations from time to time.

GENERAL REGULATIONS

University regulations on examination offences and punishment

Requirements for the examination

- i. In order to be eligible for a course examination a student shall be expected to attend a minimum of 65% of the lecturer, tutorials, practical and classes for the course in which he/she is registered. In this regard, course lecturers shall obtain and keep records of attendance.
- ii. Once a student has registered for a course and he/she has not withdrawn from the course by the middle of the semester, he/she is automatically deemed to have registered for the course examination.
- iii. No student who has been entered for an examination shall postpone or withdraw for the examination except on acceptable medical grounds, and in consultation with the Head of Department and the Dean of the School.
- iv. Candidates who fail to present themselves for an examination for reasons other than illness, accident or some exceptional circumstances shall be deemed to have failed the course. Any student absent on the ground of illness must produce a medical report certified by the University Director of Health Services.

COMPONENTS OF EXAMINATION

Final grades in courses shall comprise continuous assessment and end-of-course examination in the theory, practical, studio, oral examination, seminar, SIWES, and others as otherwise specified.

CONTINUOUS ASSESSMENT

Student's achievement shall be based on continuous assessment of the course and final examinations. For continuous assessment, there shall normally be three tests/ assignments. The student shall be periodically informed of his/her standing in the course. The final examination for each course shall normally be at the end of the semester in which the course is offered. Such final examination will normally comprise a theory paper, a practical/oral examination. The course grade will be made up of the student's score in the continuous assessment as well as the end-of-course examination. The continuous assessment shall carry a maximum mark of 40% unless otherwise specified.

INSTRUCTIONS TO CANDIDATES

- i. A candidate shall be admitted into the examination hall on production of his/her student identity card, and be properly identified to avoid impersonation.
- ii. There shall be no smoking in the examination hall.
- iii. Candidates must attend punctually at the times assigned their papers and must be ready to be admitted into the examination hall ten minutes before the time the examination is due to start.
- iv. Candidates shall not be permitted in any circumstances to enter the examination hall more than fifteen minutes before the time appointed for the commencement of the examination. Candidates arriving more than half an hour after the examination has started shall be admitted only at the discretion of the Chief Invigilation. Candidates who come late shall not be allowed extra time.
- v. Similarly, except with the special permission of the Chief Invigilation. Candidates must not leave the examination hall during the first half and the last quarter of an hour of the examination outside those periods candidates with the special permission of the Chief Invigilation may leave the room temporarily and then only if accompanied by an official.
- vi. No books or any unauthorized materials shall be brought into the examination hall. Candidates may bring with them only authorized examination hall. Candidates may bring with them only authorized materials such as pens, pencil, erasers and any such other materials which they are specially allowed to bring to the examination hall. Programmable calculation, accounting calculator, desktop/laptop/notebook/hand-held computer, data banks may only be brought to the examination hall with the special permission of the Chief Examiner.
- vii. While the examination is in progress communication between candidates is strictly forbidden, and any candidate found to be giving or receiving irregular assistance shall face disciplinary actions.

- viii. Silence must be observed in the examination hall. The only permissible i.e. way of attracting the attention of the Invigilation is by the candidate raising his/her hand.
- ix. The use of scrap paper is not permitted. All rough work must be done in the answer sheets and crossed out neatly.
- x. Supplementary answer booklets, even if they contain only rough works, must be tied inside the main answer booklet.
- xi. Candidates are advised in their own interest to write legible and avoid using faint ink. Answers must be written in English, except otherwise instructed.
- xii. Before handling in their scripts at the end of the examination, candidates must satisfy themselves that they have inserted at the appropriate placed their matriculation numbers and the numbers of the questions they have answered.
- xiii. It shall be the responsibility of each candidate to hand in his/her scripts before he/she leaves the hall, except for the question paper, and any materials they have permission to bring with them candidates are not allowed to remove or mutilate any paper or material supplied by the University.
- xiv. Candidate must personally complete attendance sheet and submit same to the invigilator as evidence of taking the examination before leaving the hail.
- xv. Mobile phones/sets or radio communication sets are not permitted in the examination hall.

EXAMINATIONS, ON AND OFF CAMPUS OFFENCES AND PENALTIES

(A) MISCONDUCT BEFORE EXAMINATION

1. Misconduct: Involvement in and bearing responsibility for examination question leakage.
Penalty: Expulsion from the University.
2. Misconduct: Participating in or benefiting from question leakage.
Penalty: Expulsion from the University.
3. Misconduct: Attempting to participate in and/or benefit from examination question leakage.
Penalty: Suspension for two (2) semesters.
4. Misconduct: Coming into the examination hall within thirty (30) minutes of the commencement of an examination.
Penalty: The candidate should be allowed into the examination hall but he/she should not be given extra time.
5. Misconduct: Coming into the examination hall later than thirty (30) minutes after the commencement of examination.
Penalty: The candidate should not be allowed into the examination hall and he/she should be scored 0 (F) in the course examined.

(B) MISCONDUCT DURING EXAMINATION

6. Misconduct: Sitting for an examination for which a candidate did not register for or qualified to sit for.
Penalty: The result of the candidate in the course should be nullified. She/he should be score 0 (F) and be issued a letter of warning.
7. Misconduct: Representing/Standing in for another in the course of an examination.
Penalty: Expulsion from the University.
8. Misconduct: Conniving with another candidate/student/person to represent/stand in for another in an examination.
Penalty: Expulsion from the University.
9. Misconduct: Destroying, effacing, mutilating, and swallowing of potentially incriminating material relating to a course during the course of an examination.
Penalty: Suspension for two (2) semesters. In addition, the candidate should be scored 0 (F) in the course.
10. Misconduct: Displaying of inappropriate or anti-social behavior (e.g. smoking,

- singing, cat calls, etc) capable of causing delay and/or disruption of an examination process.
- Penalty: Suspension for one (1) semester.
11. Misconduct: Displaying of inappropriate or anti-social behavior leading to disruption and suspension of an examination.
- Penalty: Suspension for two (2) semesters.
12. Misconduct: Giving, or receiving, or in any way benefitting from information relating to a course in an examination through electronic, personal dress material, part of the body in any manner or form whatsoever.
- Penalty: Suspension for two (2) semesters.
13. Misconduct: Leaving the examination hall without the permission of the invigilator
- Penalty: Letter of warning. In addition, the candidate should be scored 0 (F) in the course examined.
14. Misconduct: Leaving the examination hall with examination material before the end of the examination without the permission of the Invigilator.
- Penalty: Suspension for two (2) semesters.
15. Misconduct: Substituting or exchanging the answer script given to a candidate in whatever manner or form, during the examination.
- Penalty: Expulsion of all the students involved from the University.
16. Misconduct: Exhibiting insulting, rude, impolite behavior to another student during the course of an examination
- Penalty: Letter of Warning
17. Misconduct: Exhibiting insulting, rude, impolite behavior to a staff during the course of an examination.
- Penalty: Suspension for two (2) semesters.
18. Misconduct: Physical assault on another student during the course of an examination.
- Penalty: Suspension for two (2) semesters
19. Misconduct: Physical assault or battery on staff during the course of an examination.
- Penalty: Expulsion from the University
20. Misconduct: Talking to or communicating with another candidate without due permission during the course of an examination
- Penalty: Letter of warning.
21. Misconduct: Bringing in unauthorized material(s) into the examination hall by a candidate without proven evidence of using the material(s).
- Penalty: Suspension for one (1) semester. The candidate should also be scored 0 (F) in the course.
22. Misconduct: Bringing in unauthorized material(s) into the examination hall by a candidate with proven evidence of using the material(s) or any part thereof.
- Penalty: Suspension for two (2) semesters. The candidate should also be scored 0 (F) in the course.
23. Misconduct: Failures by a candidate to submit his/her answer script after taking part in an examination.
- Penalty: Suspension for two (2) academic semesters. In addition, the candidate should be scored 0 (F) in the course.
- 24a. Misconduct: Giving/receiving irregular assistance, cheating or aiding and abetting by a candidate/student in an examination.
- Penalty: Suspension for two (2) semesters.
- 24b. Misconduct: Refusal to sign the attendance register during examination.
- Penalty: Warning.

(C) MISCONDUCT AFTER EXAMINATION

25. Misconduct: Involvement in an attempt to substitute or change or remove or effect changes in examination script(s), record sheet(s), attendance register or any examination related material/ document.
Penalty: Expulsion from the University
26. Misconduct: Gentle/Subtle exertion of influence with a view to obtaining undue advantage in the grading of scripts or award of marks on an internal or external examiner.
Penalty: Letter of warning.
27. Misconduct: Non-gentle/non-subtle exertion of influence with a view to obtaining undue advantage in the grading of scripts or award of marks by an external examiner.
Penalty: Expulsion from the University

(D) MISCONDUCT ON-CAMPUS

28. Misconduct: Display of inappropriate or anti-social behavior (e.g. smoking, singing, cat call, etc) capable of causing delay or disruption of class work, tutorials, lectures, laboratory work etc.
Penalty: Suspension for one (1) semester.
29. Misconduct: Display of inappropriate or anti-social behavior (e.g. smoking, singing, cat call, etc) capable of causing delay or disruption, leading to suspension of school activities (class work, tutorials, lectures, etc).
Penalty: Suspension for two (2) semesters.
30. Misconduct: Insulting, rude, impolite behavior to staff in Department or General Offices.
Penalty: Suspension for two (2) semesters.
31. Misconduct: Physical assault or battery on staff in the Department or General Offices.
Penalty: Expulsion from the University
32. Misconduct: Willful damage to any University property or staff and student property.
Penalty: Student shall pay cost of replacement, and be suspended for one (1) semester.
33. Misconduct: Non-willful damage to any University property or staff and student property.
Penalty: Student shall pay cost of replacement.
34. Misconduct: Physical assault or battery on a member of the community within the University premises.
Penalty: Expulsion from the University

(E) OFF-CAMPUS STUDENT BEHAVIOUR/MISCONDUCT

35. Misconduct: Insulting, rude, impolite behavior on another student outside the University premises.
Penalty: Letter of Warning.
36. Misconduct: Physical assault or battery on another student outside the University Premises.
Penalty: Expulsion from the University.
37. Misconduct: Exhibiting insulting, rude, impolite behavior by student or group of students on staff outside the University premises.
Penalty: Suspension for two (2) semesters.
38. Misconduct: Physical assault or battery on staff outside the University premises.
Penalty: Expulsion from the University

(F) GENERAL

39. Misconduct: Obstruction of motorways on-campus or off campus during or after regular hours.
Penalty: Letter of Warning.
40. Misconduct: Riotous behavior on-campus or off-campus in Bus Taxi Cabs, Bus Stops, in the Hostel or Classroom. Refusal to pay Bus/Taxi fare on campus or off campus.
Penalty: Suspension for one (1) semester.
41. Misconduct: Worshipping or holding religious activities in unauthorized, unapproved places, day or night on campus premises.
Penalty: Letter of Warning.
42. Misconduct: Luring/imprisoning falsely, a fellow student or a member of staff against his/her wish.
Penalty: Expulsion from the University.
43. Misconduct: Indecent assault of a female or male or forceful unsolicited sex of another student.
Penalty: Expulsion from the University.
44. Misconduct: Sexual harassment of a staff by a student.
Penalty: Expulsion from the University.
45. Misconduct: Chanting war songs or shouting of slogans by students or group of organized students anywhere on campus or off-campus with an intention to cause disruption of University activities.
Penalty: Suspension for one (1) semester.
46. Misconduct: Unsolicited illegal entry of a male student into the female hostel and vice-versa.
Penalty: Letter of Warning.
47. Misconduct: Pilfering of personal items and/or articles from public places.
Penalty: Student shall pay cost of replacement of the item or article and be suspended for two (2) semesters.
48. Misconduct: Fraud, advance fee fraud, embezzlement by any student or group of students.
Penalty: Such student(s) shall be sanctioned as appropriate under the University enabling laws subject to the operating laws in the country.
49. Misconduct: Engaging in unauthorized commercial activities (operation of telephone services, business centres) in the hall of residence.
Penalty: Forfeiture of hall accommodation and suspension for one (1) semester.
50. Misconduct: Involvement in commercial sex services (CSS) within and outside the University.
Penalty: Expulsion from the University.
51. Misconduct: Drug abuse, misuse and use of hard drugs.
Penalty: Expulsion from the University.
52. Misconduct: Involvement in electoral malpractice.
Penalty: Suspension for two (2) semesters.
53. Misconduct: Leasing and sale of bed space(s) in the halls of residence.
Penalty: Forfeiture of hall accommodation and suspension for two (1) semester.
54. Misconduct: Act of impersonation by a student within and outside the University Campus.
Penalty: Expulsion from the University
55. Misconduct: Double/multiple matriculation for different academic programmes in the University simultaneously.
Penalty: Expulsion from the University.
56. Misconduct: Unauthorized production of the University Identity card.
Penalty: Expulsion from the University.

57. Misconduct: Alteration of the University Identity card.
Penalty: Expulsion from the University.
58. Misconduct: Unauthorized use of the University logo or emblems.
Penalty: Suspension for one (1) semester.
59. Misconduct: Malicious use of the University logo or emblems.
Penalty: Expulsion from the University.
60. Misconduct: Acts that constitute or results in the pollution (air, soil, water) or damage/destruction of University environment.
Penalty: Letter of Warning.
61. Misconduct: Defacing or mutilation or willful destruction of books, journals, periodicals and other literature items and audio-visual facilities and equipment in the Library.
Penalty: Suspension for two (2) semesters.
62. Misconduct: Any unruly behavior and act that results in the death of University farm/laboratory animals and or death of cultivated plants.
Penalty: Letter of warning and such student(s) shall pay for the cost of replacement.
63. Misconduct: Any unruly behavior and act that results in the death of person/persons within and outside the University campus.
Penalty: Expulsion from the University. Such student(s) shall pay for the cost of replacement.
64. Misconduct: Unauthorized erection/establishment of physical structures (shops, statues, buildings, kiosks, billboards, signposts, markets roads, etc.) within the University campus.
Penalty: Suspension for two (2) semesters. Such student(s) should be handed over to the Nigeria Police.
65. Misconduct: Unauthorized sale of portions of University property for erection/establishment of structures (shops, statues, buildings, kiosks, billboards, signposts, markets, roads, etc.) within the University campus.
Penalty: Suspension for two (2) semesters.
66. Misconduct: Unauthorized use of any part of University buildings property for erection/establishment of structures (shops, statutes, buildings, kiosks, billboards, signposts, markets, roads, etc.) within the University campus.
Penalty: Suspension for two (2) semesters.
67. Misconduct: Defacing or mutilation or willful destruction of books, journals, periodicals and other literature items and audio-visual facilities and equipment in the Library.
Penalty: Suspension for two (2) semesters.
68. Misconduct: Sub-letting of University space, facilities, buildings, rooms, etc.
Penalty: Suspension for two (2) semesters.
69. Misconduct: Unauthorized use, abuse/disruptions to the use of University website.
Penalty: Such student(s) shall be sanctioned as appropriate under the University enabling laws subject to the operating laws in the country.
70. Misconduct: Locking of University gates or blockage of University roads or denial access to any part of the University.
Penalty: Suspension for two (2) semesters.
71. Misconduct: Illegal possession/use of firearms.
Penalty: Expulsion from the University.

(G) CAVEATS

72. Misconduct: Student/candidate who had been issued a letter of warning on account of examination misconduct or other culpable or blameworthy act.
Penalty: Suspension for one (1) semester.
73. Misconduct: A student/candidate who had been suspended for one semester on account of examination malpractices or other offences.
Penalty: Suspension for two (2) semesters.
74. Misconduct: A student/candidate who had been suspended for one session and was subsequently found culpable of any other blameworthy act or examination misconduct.
Penalty: Expulsion from the University.
75. Misconduct: Staff member accused of involvement in any of the acts of examination misconduct.
Penalty: Referral to the appropriate University Investigation/ Disciplinary Committee for appropriate action.

(H) DRESS CODE

76. Misconduct: Indecent exposure of vital parts of the body e.g. thighs, back, chest and abdomen (including the navel) in Classroom, Laboratory, Lecture Theatre, School/Department, Offices and General University buildings.
Penalty: Letter of Warning.
77. Misconduct: Covering up the face such that the student cannot be identified in the Classroom, Laboratory, Lecture Theatre or any official academic activities.
Penalty: Such student shall be prevented from participating in receiving lectures, taking part in Classroom/Laboratory activities, Workshops, Seminars, etc.
78. Misconduct: Covering up the face such that the student cannot be identified in the School/Department offices and general University buildings.
Penalty: Such student shall not be attended to by staff and he/she be sent off from the School/Department offices and general University building.

(I) PENALTY FOR FRIVOLOUS ALLEGATION IN AN APPLICATION FOR REVIEW OF MARKED SCRIPT

79. Misconduct: Frivolous Allegation: Making an application for revision of marked scripts by a student which lacked merit but with no imputation of victimization of malevolence.
Penalty: Letter of warning.
80. Misconduct: Malicious Allegation: Making an application for revision of marked scripts by a student which lacked merit but with imputation of victimization of malevolence.
Penalty: Suspension for two (2) semesters.

COURSE OUTLINE

100 LEVEL : 1st Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
BIO 101	C	General Biology 1	2	1	0	3
BIO 103	C	General Biology Practical I	0	0	3	1
CHE 101	C	General Chemistry 1	2	1	0	3
CHE 103	C	Experimental Chemistry Practical I	0	0	3	1
PHY 101	C	General Physics 1	2	1	0	3
PHY 103	C	General Physics III	2	0	0	2
PHY 107	C	General Physics Laboratory I	0	0	3	1
MTS 101	C	Introductory Mathematics 1	2	1	0	3
MEE 101	R	Engineering Drawing	1	0	6	3
GNS 101	R	Use of English 1	1	1	0	2
GNS 103	R	Information Literacy	1	0	0	1
TOTAL						23

100 LEVEL : 2nd Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
BIO 102	C	General Biology II	2	1	0	3
BIO 104	C	General Biology Practical II	0	0	3	1
CHE 102	C	General Chemistry II	2	1	0	3
CHE 104	C	Experimental Chemistry II	0	0	3	1
PHY 102	C	General Physics II	2	1	0	3
PHY 108	C	General Physics Laboratory II	0	0	3	1
MEE 102	C	Workshop Practice	1	0	3	2
MTS 102	R	Introductory Mathematics II	2	1	0	3
GNS 102	R	Use of English II	1	1	0	2
GNS 106	R	Logic and Philosophy	1	1	0	2
TOTAL						21

200 LEVEL : 1st Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
APH 201	R	Introduction to Animal Production and Health	1	0	3	2
CSP 201	R	General Agriculture (Theory)	1	0	0	1
MCS 213	R	Meteorology for Agricultural Sciences	2	0	0	2
FAT 201	R	Introduction to Fisheries & Aquaculture	2	0	0	2
FST 201	R	Introduction to Food Science & Technology	2	0	0	2
CHE 203	R	Organic Chemistry 1	1	0	3	2
BCH 201	R	General Biochemistry I	2	1	0	3
AGE 201	R	Introduction to Farm Workshop	2	0	3	3
EWM 201	R	Introduction to Ecotourism & Wildlife Management	1	0	3	2
GNS 203	R	Nigerian History and Culture	2	0	0	2
TOTAL						21

200 LEVEL: 2nd Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
APH 202	R	Anatomy and Physiology of Farm Animals	2	0	3	3
CSP 202	R	Basic Soil Science	1	0	3	2
CSP 204	R	Botany of Economic Crops	1	0	3	2
CSP 210	R	General Agriculture (Practical)	0	0	6	2
FWT 202	R	Introduction to Forest Resources Management and Agroforestry	2	0	3	3
CSC 102	R	Introduction to Computing	2	0	3	3
ARE 202	R	Agricultural Statistics and Field Experimentation	2	0	3	3
PMT 210	R	Principles of Economics	2	1	0	3
FAT 200	R	Swimming Skills	0	0	3	1
TOTAL						22

Elective Course

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
CHE 202	E	Analytical Chemistry	1	0	3	2

University required courses for Direct Entry (D.E) student

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
GNS 102	R	Use of English II	1	1	0	2
GNS 106	R	Logic and Philosophy	1	1	0	2

300 LEVEL : 1st Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
FAT 301	C	Aquatic Ecology	1	0	3	2
FAT 303	C	Limnology and Hydrobiology	1	0	3	2
FAT 305	C	Fish Taxonomy and Biology	1	0	3	2
FAT 307	C	Pond Construction and Maintenance	1	0	3	2
FAT 309	C	Fish Feed Technology	1	0	3	2
FAT 311	C	Fish Physiology and Behaviour	1	0	3	2
FAT 313	C	Fish and Fishery Products	1	0	3	2
FWT 303	R	Forest Survey	1	0	3	2
PMT 301	R	Introduction to Entrepreneurship	2	0	0	2
AEC 305	R	Introduction to Agricultural .Extension and Rural Sociology	2	0	0	2
TOTAL						20

Elective Courses

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
CSP 309	E	Land/Soil Management	1	0	3	2
ARE 305	E	Introduction to Microeconomic Theory	2	1	0	3

300 LEVEL : 2nd Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
FAT 300	R	Students' Work Experience Programme (SWEP)	0	0	3	1
FAT 302	C	Fish Population Dynamics	1	0	3	2
FAT 304	C	Fish and Shellfish Nutrition	1	0	3	2
FAT 306	C	Fish Farming Techniques	1	0	3	2
FAT 308	C	Water Quality and Aquatic Toxicology	1	0	3	2
FAT 310	C	Fish Breeding and Larval food Production	1	0	3	2
FAT 312	C	Ornamental and Recreational Fisheries	1	0	3	2
FAT 314	C	Fish Biochemistry	1	0	3	2
FAT 316	C	Field Trip	0	0	6	2
PMT 302	R	Practical Skills in Entrepreneurship	0	0	9	3
TOTAL						20

Elective Courses

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
CSP 306	E	Fundamentals Horticulture	3	0	0	2
ARE 316	E	Application of Computer in Agriculture	1	0	0	2
ARE 318	E	Farm Records and Accounting	2	1	0	3

400 LEVEL : 1stSemester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
FAT 401	C	Fisheries Management and Conservation	2	0	0	2
FAT 403	C	Fisheries Economics	1	1	0	2
FAT 405	C	Marine Fisheries Resources	1	0	3	2
FAT 407	C	Fishing Gear Technology	2	0	3	3
FAT 409	C	Fish Parasites, Diseases and Control	1	0	3	2
FAT 411	C	Production and Marketing of Marine Fish products	1	1	0	2
FAT 413	C	Statistics and Experimentation in Fisheries	2	1	0	3
FAT 415	C	Production and Utilization of Sea weeds and Freshwater plants	1	0	3	2
TOTAL						20

Elective Courses

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
EWM 415	E	Park Planning and Interpretation	1	0	3	2
APH 409	E	Poultry Production	2	0	3	3

400 LEVEL : 2ND Semester (plus Long Vacation - Students Industrial Work Experience Scheme (SIWES))

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
FAT 402	C	Industry Based Supervisor's Assessment	0	0	12	4
FAT 404	C	FUTA Supervisors' Assessment	0	0	12	4
FAT 406	C	Students' Report and Seminar Presentation	0	0	12	4
TOTAL						12

500 LEVEL : 1st Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
FAT 501	C	Fisheries Extension and Cooperatives	1	1	0	2
FAT 503	C	Post Harvest Technology	2	0	3	3
FAT 505	C	Fish Genetics	1	1	0	2
FAT 509	C	Population Regulation in Fisheries Management	1	0	3	2
FAT 511	C	Aquaculture Engineering	2	0	3	3
MET 505	C	Marine and Physical Oceanography	3	0	0	3
FAT 599	C	Final Year Students' Project	0	0	18	6
TOTAL						21

Elective Course

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
APH 511	E	Animal Products and By-Product Technology	1	0	3	2

500 LEVEL : 2nd Semester

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
FAT 500	C	Seminar	0	0	6	2
FAT 502	C	Fisheries Policy and Administration	2	0	0	2
FAT 504	C	Crustacean Culture	2	0	3	3
FAT 506	C	Fish Breeding and Laviculture	2	0	3	3
FAT 508	C	Aquatic Resources Biodiversity	2	0	3	3
FAT 510	C	Fisheries Business and Trade	2	0	0	2
TOTAL						15

Elective Course

Course Code	Course Status	Course Title	Contact Hours			Course Unit (s)
			L	T	P	
APH 520	E	Animal Production System	3	0	0	3

COURSE DESCRIPTIONS

FAT 201: Introduction to Fisheries and Aquaculture (2 Units)

Principles and problems of production, management and conservation of West African fish resources. Fisheries recreation and amenities. Fisheries park, zoo, sport fishing, marine park. Identification, nomenclature, morphology and evolution of some selected West African fish species. Identification of common aquatic and terrestrial organisms of food value in fisheries. Principles of aquaculture, cultivable fish species in Nigeria.

FAT 200: Swimming Skills (1 Unit)

Basic materials and principles of swimming. Different swimming techniques, Acquisition of skills, Regular swimming practices in freshwater pools and rivers.

FAT 300: Students Works Experience Programme (1 Unit)

FAT 301: Aquatic Ecology (2 Units)

Ecology of fishes with special references to distribution and natural history. Characteristics of the aquatic environment, organic production in aquatic fauna and flora, algal blooms and eutrophication; benthos biomass assessment. Niche concept; habitat studies of fish communities in major aquatic eco-systems of Nigeria. Distributions, structures and dynamics of aquatic ecosystems in tropical Africa. Food interrelationship in fish populations. Fish behaviour, marine fish and invertebrate community and behavioral ecology, energy exchange between habitats through fish invertebrate migrations and use of fish vocal patterns as a tool to study their behavioral ecology and to identify essential fish habitats.

FAT 302 Fish Population Dynamics (2 Units)

Definition of fish stock assessment. Primary objectives of fish stock assessment. The stock concept. Estimation of growth parameters, the von Bertalanffy growth equation. Variabilities and applicabilities of growth parameters. Age/length composition data from a single survey and multiple surveys. Methods for estimation of growth parameters from length at age data. The Gulland and Holt plot. Fishing efforts and catch per unit efforts. Population estimation: age and growth, sex ratio, natality (recruitment) and mortality. Computation of yields from given recruitments.

FAT 303 Limnology and Hydrobiology (2 Units)

Properties of natural and man made lakes. Aquatic chemistry, Transport and exchange process. Thermal properties and stratifications. Physico-chemical properties of fresh, brackish and marine waters, hydrology and water cycle. Identification and study of the characteristics fauna and flora of importance in tropical freshwater and coastal swamps. Ecology, utilization and management of aquatic fauna and flora. Control of aquatic weeds.

FAT 304 Fish and Shellfish Nutrition (2 Units)

Principles of fish nutrition. Feeding methods, factors affecting nutritive value of feeds. Nutrient requirement of fish and shrimps. Natural and artificial feeds, supplementary feeds, concentrates, purified, semi-purified and practical diets. Conventional and non-conventional sources of feedstuffs. Processing of fish feeds. Toasting, autoclaving, extrusion and pelleting. Use of plant and animal wastes in fish feeds and other products as substitutes in fish diet. Importance of fish meal in fish feeds and development of alternatives to fishmeal and fish oil. Factors affecting fish growth and importance of anti-nutritional factors.

FAT 305 Fish Taxonomy and Biology (2 Units)

Principles of systematics. Phylo-genetic relationships. Taxonomy and detailed study of major commercial fish species in Nigeria's inland, estuarine and marine waters. Identification of fish species using keys and monographs. Morphology of bony and cartilaginous fishes. Respiration, Reproduction, excretion, osmoregulation, food and feeding habits, circulatory and nervous systems.

FAT 306 Fish Farming Techniques (2 Units)

Definition and types of aquaculture practices Importance of aquaculture. Fish culture methods, their merits and demerits. Integrated fish culture. History and status of aquaculture in Nigeria. Site selection and selection of fish for aquaculture. Water recirculation system and other enclosures for fish culture. Principles and methods of stocking, feeding, liming and fertilization. Introduction of exotic species and their implications. Water quality requirements. Types and application of organic and inorganic fertilizers. Harvesting practices.

FAT 307 Pond Construction and Maintenance (2 Units)

Site selection and survey. Design and construction of earthen production, breeding, nursery ponds. Fish pond accessories - spillway, monks, water inlet, monk boards and screen. Construction of other fish culture enclosures (concrete tanks, cages, pens, raceways). Construction of simple hatchery units, drainage facilities, flow-through system for fish production. Maintenance of ponds, channels and drainage facilities. Fish farm design and facilities.

FAT 308 Water Quality and Aquatic Toxicology (2 Units)

Physical properties of water bodies; water chemistry, nutrient cycles and aquatic productivity; sampling methods and analyses. Effects of pesticides and industrial contaminants on fish, crustaceans and molluscs within Nigeria coastal waters. Ecological toxicology, responses of aquatic species to excess nutrients, diseases and chemical stressors Pollution and its effects on aquatic life, ecological characteristics of polluted waters and methods for maintaining and improving water quality (chemical, mechanical, biological). Fate and biomagnifications of micropollutant, Nutrient behaviour, phytoplankton and algal nuisance.

FAT 309 Fish Feed Technology (2 Units)

Nutrients sources, types of feedstuffs/ingredients and their chemical compositions. Feed supplements and concentrates. Classification of foods, feedstuffs for aquafeeds. Chemistry and nutritive values of foods, feedstuffs and fish supplements. Methods of aquafeed formulation, preparation and properties. Pelleting, extrusion and physical and biological evaluation improvement. Processing techniques involved in aquafeed formulation. Components of a feed mill. Packaging and storage of aquafeeds.

FAT 310 Fish Breeding and Larval Food Production (2 Units)

Introduction to fish breeding and larval cultivation of fin fish and shellfish. Importance of live food production. Production methods and environmental conditions for cultivating marine and freshwater finfish and shellfish larval. Principles and practices of larval food production; plankton aquaculture - *Chlorophycota*, *Bacillariopyta*, *Cyanophycota*, *Rhodophyta*, *Chrysophyta*. Rotifer, copepods and micro algae culture parameters, production level reliability. Cost reduction and ongoing development on commercial scale production of live feeds for larvae of finfish and shellfish. Preparation, culture and feeding of algae, rotifers and brine shrimp artemia. Artemia biology and ecology applications in aquaculture. Intensive cultivation of artemia.

FAT 311 Fish Physiology and Behaviour (2 Units)

Fish growth and development. Determination of growth and age using spines, scales, otoliths, opercula, bones, and carbon dating. Reproduction and factors affecting both growth and reproduction

in fish. Growth and reproduction in shell fish and their measurements. Different shapes and designs of fish in relation to aquatic environment. Natural environmental adaptation and physiological basis for navigation, migration, respiration, reproduction, feeding, temperature, salinity and light.

FAT 312 Ornamental and Recreational Fisheries (2 Units)

Identification, management and nutrition of ornamental fishes; design, construction and maintenance of fountains, aquaria and ponds for ornamental fishes. Culture and breeding of aquarium fishes. Aquarium fish trade, sport fishing in recreation and tourism. Management techniques and daily routine operations in the culture of ornamental and recreation fisheries. Economic importance of ornamental and sport fishes, especially tropical fish species.

FAT 313 Fish and Fishery Products (2 Units)

Fishery Zones; Inland fishery zones (freshwater - floodplain, rivers, lakes), coastal and brackish water fishery and marine fishery zones. b) Fishing: inland fishing, marine fishing (offshore fishing, inshore fishing, coastal fishing and offshore fishing). c) Fishery product processing (frozen products, dried products, smoke-dried products, canned products, fish sausage or cake, fish meal, fish egg or jam, fish oil, flavourants, algae products (agar); crafts (pearl production). d) Fishery product trade.

PMT 301 Introduction to Entrepreneurship (2 Units)

Introduction to entrepreneurship and new creation, entrepreneurship in theory and practical, the opportunity, forms of business, staffing, marketing and the new venture, determination of practical requirement, raising capital cost, financial planning and management, starting a new business, innovation, legal responsibility, insurance and environmental consideration.

PMT302 Practical skills in entrepreneurship (3 Units)

Workshop or seminar to prepare student' mindset on enterprise attachment. Types of Enterprise-Agro-based skills, Arts and Craft, Building services. Construction work, Prepare of appliances, Electrical services, Food processing, Manufacturing, auto maintenance, workshop, hospitality management.

FAT 314 Fish Biochemistry (2 Units)

Fish physiology, their composition and food value, water metabolism, chemistry and metabolism of carbohydrates, lipids, proteins, hormones, vitamins, minerals and antibiotics, energy transfer systems, general enzyme systems, general cell molecular biology to include membrane, processes, Biochemistry of Fish organs, tissues and cells, structure of organs, tissues, cells and organelles related to their functions, osmotic, ionic, respiratory and excretory homeostasis, nerve and muscle physiology; endocrinology biochemistry of growth maintenance and reproduction, endocrine chemistry and biochemistry. Biochemical and physiological effects of toxicants.

FAT 316 Practical Field Trip (2 Units)

Students at 300 level go for two (2) weeks training at Fisheries and Aquaculture establishments to acquaint themselves with the operation methods in fish farms. Students are to write and submit Technical report at the end of the field trip for assessment by the panel of academic staff in the Department.

FAT 401 Fisheries Management and Conservation (2 Units)

Basic concept of fisheries development and management (unexploited, underexploited, overexploited fisheries resources). Basic and practical objectives of fish management and conservation in Nigeria. Fisheries administration and legislation: problems of enforcing laws. Development and management of lakes, rivers, brackish and marine waters. Traditional methods of fisheries management, administration and conservation in Africa e.g. taboos, superstition, festivals and the roles of traditional heads. Government policy in fisheries administration and management. Roles and

activities of federal, state and local governments in fisheries development and management in Nigeria.

FAT 402, 404 and 406 Students Industrial Work Experience (SIWES) (12 Units)

FAT 402 - Industry-based Supervisors' Assessment of Students Performance (4 Units)

This is one of the three components of the Students Industrial Work Experience Scheme (SIWES) where Industry-based Supervisors do assess students' performance: punctuality to work, commitment and contribution of student to the operations in the industries to which the students are attached. Such assessment is submitted to the Department to form part of the SIWES overall grading.

FAT 404 - FUTA Supervisors' Assessment (4 Units)

This is the second component of the SIWES overall grading. This is the assessment of the students by the University Supervisors, who visit the students at the places of attachment and evaluate their logbook and as well interact with the Industry based Supervisors.

FAT 406 - Student's Report and Seminar Presentation (4 Units)

This is the assessment of the report and evaluation of student's reports and seminar presentation. The assessment is based on the quality of the write-up and student's ability to present and defend the report, which shall be graded accordingly.

FAT 403 Fisheries Economics (2 Units)

Economic constraints in fisheries development; free access to 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. Feasibility reports writing and assessment reports of fishery facilities. Cost studies in Fisheries and Aquaculture Technology. Demand and Supply of fish products in Nigeria. Traditional and modern methods of marketing fisheries products in Nigeria. Capital Investment depreciation of equipment and costs of distribution. Cooperative organizations. Social acceptances of fish among the local communities.

FAT 405 Marine Fisheries Resources (2 Units)

Marine environment and its physical features. Ocean basins and its distribution, Fauna distribution along the various ecological zones. Plankton resources, primary production, food chain relationships. Factors influencing primary and secondary production. Principal marine fisheries of Nigeria. Benthic and reef fishes, coastal pelagic fishes, oceanic pelagic fishes, demersal fishes. Status and trends of major fish resources in the region. Sharks, turtles, marine birds, marine mammals. EEZ policy and fish production.

FAT 407 Fishing Gear Technology (3 Units)

Definition of fishing gear and craft. Concept of fishing gear technology and trends of development. Classification of fishing activities and gears. Types of fishing gear and fishing craft, properties of the material used in the construction of hooks, traps and nets. Fishing gear construction materials, netting gear, non-netting gear, twine notation and numbering system. Floats, sinkers and their characteristics and properties. Assessment of efficiency of fishing gear. Design and construction of different types of fishing gear and their maintenance.

FAT 409 Fish Parasites, Diseases and Control (2 Units)

Identification, morphology, taxonomy, life history of fish parasites. Viral disease: Lymphocystis; bacterial infections, ephitheliocystis, fungal infections: Saprolegnia and Branchiomyces infection. Ecto-parasitic protozoa, endo-parasitic protozoa. Trematode worms, cestode worms, nematode worms. Ecological effects of parasite population in water body

FAT 411 Production and Marketing of Marine Fish Products (2 Units)

Mollusk culture; biology, systematics, evolution and reproduction. Life history, genetics of gastropods, bivalves, cephalopods etc. Production techniques of oysters, pearl, production techniques for mussels, scallops, clams and abalones. Systematics, evolution, ecology of larval and early post larval gastropods, cephalopods, community ecology, cultivation and farming. Harvesting, utilization, processing and marketing of octopuses, squids and Nautilus etc.

FAT 413 Statistics and Experimentation in Fisheries (3 Units)

Review of biometrical concepts in agriculture: planning of experiment: analysis of variance: transformation of data; experimental designs such as completely randomized design. Least square, missing values, multiple comparisons, nested designs, factorial experiments. Split-spot and split-split-plot designs; analysis of data from qualitative variables; application of correlation and regression analyses in agricultural experiments.

FAT 415 Production and Utilization of Sea weed and Freshwater Plants (2 Units)

Ecology, life histories of edible sea weeds and freshwater plants. Deep sea and shore farming of some plants. Utilization; harvesting techniques, processing, and preservation of sea weeds and freshwater plants. Economic importance of coral reefs. Aquatic weeds of economic importance, identification, propagation and utilization. Factors affecting aquatic weeds, disposal and utilization in the tropics.

FAT 500 Seminar (2 Units)

Oral preparation of reviewed papers on specific topics of important to Fisheries and Aquaculture Technology by the 500 level students. Students shall be assessed by panel of departmental academic staff during oral presentation and the write-up shall also be assessed.

FAT 501 Fisheries Extension and Cooperatives (2 Units)

Principles and methods of programme planning, extension need educational objectives, learning experience, clientele participation plan of work etc. organizing associations and cooperatives, concepts of evaluation applied to fisheries and wildlife extension, dissemination of research findings to field workers. Types of cooperatives, importance, formation, functions, rules and accessibility to loan for credit facilities.

FAT 502 Fisheries Policy and Administration (2 Units)

Fisheries legislation in Nigeria. National laws regarding aquatic resources management. National and state Policies on fisheries planning and use. Administrative structure of fisheries management in Nigeria. Problems of fisheries conservation in Nigeria. Fisheries institutions, conservation strategies, fisheries policy and laws of Nigeria. International laws. Laws of the sea – maritime zones of high seas, legal regime of marine environment protection and scientific research.

FAT 503 Post Harvest Technology (3 Units)

The structure of fish muscle, the principal components of fish muscle and factors affecting their composition, major causes of fish spoilage, physical and chemical changes in fish muscle during and after rigor mortis. Techniques of fish preservation and processing; salt curing and fish fermentation, fish drying, fish smoking, chilling of fish, fish freezing, cold storage of fish, fish canning, fish preservation by irradiation, chemical and physical methods of fish quality assessment, organoleptic measurement of fish spoilage, international standards for fisheries products.

FAT 504 Crustacean Culture (3 Units)

Production and management of decapods. Reproductive biology, pathology, endocrinology. Production of tropical shrimp and prawn species; culture of commercially important crustaceans.

Penaeid shrimp culture, freshwater shrimp culture, marine and freshwater crab culture. Extensive, semi-intensive and intensive techniques. Harvesting and marketing of portunid crabs, lobsters and crayfish. Crustacean health, pests and diseases.

FAT 505 Fish Genetics (2 Units)

Types of reproduction and reproductive cycles in bony and cartilaginous fishes. Principles of hybridization and polyploidy in fish. Gametogenesis. Monohybrid and dihybrid inheritances. Cytological bases of inheritance. Probability and goodness of fit. Linkage, crossing-over and genetic mapping of chromosomes. Polygenic inheritance. Sex determination, inheritance related to sex in ornamental fishes. Identification of genetic material. Protein synthesis code. Principal and practical systematic, nomenclature and identification.

FAT 506 Fish Breeding and Larviculture (3 Units)

Fish seed production in aquaculture, artificial propagation, selection, rearing and management of brood fish, induced spawning of cultivated fish species in Nigeria. Hormone administration, artificial fertilization, incubation and hatching of eggs. Techniques of larval rearing of fry and fingerlings. Site selection, monitoring of fish seeds, Hatchery equipment and support facilities. Design, maintenance, construction and management techniques of indoor and outdoor hatcheries. Diseases management in fish hatcheries, transportation of fish seeds. Sales and economics of fish seed production, organizing, planning and record keeping in fish hatcheries, larva cultivation of tropical marine and freshwater fishes.

FAT 508 Aquatic Resources Biodiversity (2 Units)

Definition and need for aquatic resource biodiversity protection in Nigeria. Goals, vision, obstacles and threats to biodiversity conservation. Use and management of biodiversity, genetic and species diversity. Current status of Nigerian aquatic resource biodiversity. Aquatic ecosystem diversity and characterization, ecological niches, parity profile. Impact assessment and minimizing adverse impacts. Socio-economics and dynamics of aquatic resource diversity exploitation strategies for Nigeria.

FAT 509 Population Regulation in Fisheries Management (2 Units)

Population dynamics, factors affecting fish population, single and multiple fish species. Population control methods in aquaculture; mechanical, biological and chemical control of fish population. Management practices for regulating fish population. Density dependent and density independent factors in fish population regulation, fishing, and capturing effects on fish population movement, cropping, sport fishing and hunting as methods of fish population regulation, causes of migration, emigration and immigration in fish. Territorial behaviour and aggression in fish.

FAT 510 Fisheries Business and Trade (2 Units)

Purpose of fish business, Starting fish business, Legal structure of fish business, Business ethics in fisheries, Basic management functions (Planning, Organising, Implementation and control), Time and stress management, risk management, Desirable qualities for successful fish business management, financial management (The balance sheet, financial statement preparation, financial analysis, preparing budgets. Financing alternatives and business valuation in fisheries and aquaculture), business environment (human environments, economic environments, government environments, global environments, Trade environments, ethical environments), eBusiness partnerships, International Fisheries and trade.

FAT 511 Aquaculture Engineering (3 Units)

Hydrological information for design and operation of aquaculture systems. Soil; engineering for designs of ponds, canals and dams. Design and construction of fish farms, hydraulic formulas used in designing fish farms, maintenance of fish farms. Pond construction engineering, design and

construction of fish cages, tanks, and other impounding structures, classification and design of different types of water pumps, types of aeration and filtration devices, their design and construction. Waste management techniques in aquaculture production, biofiltration system, type of aerators, degassing etc. Water recirculation systems and aquaponics

FAT 599 Final Year Student's Project

(6 Units)

Supervised study on identified problems, requiring both oral and written presentation. Students must attend tutorials on research techniques and scientific writing as well as oral presentation relating to students project in the Department. Project reports are to be submitted by the students at the end of the project. The reports shall be orally examined and graded by a panel of examiners headed by an External Examiner.

STAFF LIST

NAME	STATUS	QUALIFICATIONS
Prof. A.A. Dada	Professor / HOD	B.Sc., M.Sc. (Ibadan), Ph.D. (Akure)
Prof. A.M. Balogun	Professor	B.Sc., M.Sc., Ph.D. (Ibadan)
Prof. O.A. Fagbenro	Professor	B.Sc., M.Sc. (Ibadan), Ph.D. (Stirling)
Prof. E.A. Fasakin	Professor	B.Sc., M.Sc. (Ibadan) Ph.D. (Akure)
Prof. O.A. Bello-Olusoji	Professor	B.Sc. (Lagos), M.Sc. (Ibadan), Ph.D. (Akure)
Prof. Prof. (Mrs.) E.O. Adeparusi	Professor	B.Tech., M.Tech., Ph.D. (Akure)
Prof. L.C. Nwanna	Professor	B.Tech. (Akure), M.Sc. (Ibadan), Ph.D. (Akure)
Prof. O.T. Adebayo	Professor	B.Tech.(Akure), M.Sc. (Ibadan), Ph.D. (Akure)
Prof. (Mrs.) M.O. Olufayo	Professor	B.Sc. (Nsukka), M.Tech., Ph.D. (Akure)
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Dr. O.A. Abidemi-Iromini	Lecturer I	B. Tech. (Akure) M. Sc. (Lagos),Ph.D. (Akure)
Dr. (Mrs). M. L. Adeleke	Lecturer I	B. Tech., M. Tech., Ph.D (Akure)
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Mrs. O.E. Afe	Lecturer II	B.Tech., M. Tech. (Akure)
Mr. T. M. Oladipupo	Lecturer II	B.Sc. (Ado) M. Tech. (Akure)
Mr. J. Olanrewaju	Chief Technologist	OND, HND, PGD (Akure)
Mr. M.O. Ojuola	Principal Technologist	NCE (Ondo), HND (ATBU)
Miss G. Ellah	Principal Technologist	HND, Akure. PGD (Akure), M. Tech (Akure)
Mrs. J. O. Adeyemi	Principal Conf. Sec.	HND Sec. Admin (Ado), PGD (Akure)
Mr. O.S. Morakinyo	Snr. Technologist	HND (Akure), PGDE (NTI, Kaduna)
Mrs. Faith O. Esther	Head. Lab. Assistant	NCE (Ikere Ekiti)
Mrs. O. R. Kolawole	Conf. Sec. III	OND Sec. Studies (Akure)
Mr. V. O. Adams	Technologist I	OND/HND (Akure)
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Mrs. C.T. Ogedengbe	Lab. Attendant I	ND (Akure)
Mr. Bosede Williams	Lab. Attendant II	SSCE