

# THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

## DEPARTMENT OF FORESTRY AND WOOD TECHNOLOGY

### HAND BOOK

## THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE DEPARTMENT OF FORESTRY AND WOOD TECHNOLOGY

### Brief history

The Department of Forestry and Wood technology was established as one of the five in the school of Agriculture and Agricultural technology at inception 1982. It took off effectively in 1983 when the first set of students was admitted. The Department was established to give prominence to sound scientific training and provide the much-required impetus for rapid technological and industrial development in Forestry and Wood Technology.

The pioneering work to put the new Department on a sound footing started with Late. Dr. F.A. Akinsanmi, a Lecturer from the Department of Forest Resources Management, University of Ibadan, Ibadan Nigeria, who during his brief stay as a Sabbatical Staff was saddled with the responsibility of heading the Department. He was joined in 1984 by Prof. (then Dr) J.A. Fuwape - the first full - time academic staff and others such as Prof. (then Dr) O. Kadeba (1987), Prof. (then Dr.) A.O. Oluyeye (1986), Prof. (then Mr) B. Olufemi (1986), Prof. (then Mr) S.O.Akindele (1988) who formed the formidable team of pioneer academic staff that worked assiduously to lay the solid foundation for the Department. Others are Mr J.B. Oluleye. Dr. (then Mr) C.B. Ogunnika and Dr (then Mr). Owoyemi who joined shortly after to form the strong team of technical staff. Since inception, a number of eminent personalities have the privilege of piloting the affairs of the Department as head or Ag. Head, they include:

S/No	Name	Period
1	Dr. F.A. Akinsanmi	1983 - 1984
2	Prof. J. A. Fuwape	1984-1987;1990-1991;1993-1999
3	Prof. A. O. Kadeba	1987-1990' 1991-1993
4	Prof. A. O. Oluyeye	1999-2002; 2005 - 2008
5	Prof. S. O. Akindele	2002 - 2004
6	Prof. M.B. Oyun	2008-2010
7	Dr. D. O. Oke	2010-2012
8	Prof. B. Ajayi	August 2012 to July 2015
9	Prof. B. Olufemi	2004- 2005 ; August 2015- July 2018
10	Prof. V.A.J. Adekunle	August 2018 till date\

### Achievement of the Department

The department of Forestry and Wood Technology, FUTA has been very active at both local and international scenes contributing immensely to the body of knowledge in the various areas of

specialization. The dedicated and hardworking staff in the department have won several awards and grants.

The research grants won in the Department in the last five years includes:

S/No	Title	Donor agency
1	European - African network to improved higher education institution in agriculture and forestry based on new labour market	African, Caribbean Pacific Group of States (ACP) Research Grant No. Europe Aid /126851/D/ACT Multi (Joint). Value of grant EUR 420,682.69
2	Influence of plantation development on biodiversity conservation in humid lowland rainforests of West Africa	African Forestry Research Network (A FORNET) Research Grant No 382006 Value of grant (\$65,000.00)
3	Domestication of some important indigenous forest food tree species -phenotype variation, selection and nursery investigation	Alexander von Humboldt Foundation. Value of grant (EUR 54,574.00)
4	Management of ecosystem services of south west Nigeria in support of rural livelihoods and food security	Global Change System of Analysis Research Training Research and Training (START) 2011 Grant for Global Environmental Change Research in Africa. Value of grant (\$45,000.00)
5	Intergrated Soil Fertility Management for food Security: Matching capacities in Anglophone West African Nation HEIs with local needs (CAPACITY4FOOD)	Edulink Programme from the European Commission (Project No. FED/2013/320-275 (2016/2017).
6	On the Job Capacity building in Food security and Environmental Management	United Nation University, Japan 2015, 2016 & 2017 (15,000USD/year)
7	Erasmus Mondus KA+ 107 Mobility Programme	University of Jaen, Spain 2019
8	Production of value added composites from municipal wood and plastic waste	Tertiary Education Trust Fund (11 million Naira (Ongoing)

The students of the Department are also not left out. They have been performing excellently well both at home and abroad. The FUTA chapter of International Forestry Students Association (IFSA) won the first prize in the essay competition organized to mark the 50th anniversary of Forestry Association of Nigerian 2011. Nine of our students won the MasterCard Foundation Fellowship for postgraduate programme at the University of British Columbia, Canada. While five of them successfully completed the postgraduate program in 2018, four are ongoing. Two of our former students are currently on postgraduate programme in Europe and Germany with the Erasmus

Scholarship. Presently, four of our 400 level students are at the University of Jaen, Spain for a five month industrial training (September 2019 to January 2020).

The first set of graduates was produced in the Department in 1988 and this was made up of only five students. The population of graduations being turned out by the Department is increasing yearly. The reports reaching the Department from the employers of these graduates all over the country and abroad indicate that they are excellent products. The table below indicated the present number of students according to sexes in each level of study.

**Present Enrolment (2017/ 2018)**

<b>LEVEL</b>	<b>MALE</b>	<b>FEMALE</b>	<b>TOTAL</b>
100	33	40	73
200	68	99	167
300	32	33	65
400	26	25	51
500	18	18	36
<b>TOTAL</b>	<b>177</b>	<b>215</b>	<b>392</b>

**Prof. V.A.J. Adekunle**  
*Head of Department*

**THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE, NIGERIA.**  
**DEPARTMENT OF FORESTRY AND WOOD TECHNOLOGY UNDERGRADUATE**  
**CURRICULUM**

**1.DEGREE OPTION:** Bachelor of Technology (Forestry & Wood Technology)  
(B. Tech. (Forestry & Wood Technology))

**2.Mission & Vision**

**Vision**

To scientifically and technologically train manpower on sustainable management and utilization of forest and wood resources for industrial growth using innovative strategic approach.

**Mission**

To develop and promote science and technology through innovative research, live teaching, and community services geared towards accelerated skill acquisition, meeting national needs and mitigating environmental challenges.

**GENERAL ACADEMIC: REGULATIONS FOR DEGREE COURSES**

**Eligibility for Transfer into the Programmes:**

A student of the University is eligible for the specific programme to which he or 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 shall 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 being 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 Dean 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 (4) 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 (4) 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 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 (7) sessions and those admitted through the Direct Entry (DE) is six (6) sessions,
- (ii) Any student, irrespective of his/her CGPA who could not graduate at the end of his/her 7- session in the University should be required to terminally withdrawn from the University.

## Academic Matters

Students will meet the Dean or Head of Department or Staff Adviser for advice r academic matters, The Dean or Head of Department or Staff Adviser shall 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 - rests 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 unit 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 *me* 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 in 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.

## Student's 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 registered is 15 units per semester.

### (i) Grading System

The grading system used in the University is presented below:

Mark	Letter 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  $(3 \times 5.0) + (3 \times 4.0) + (3 \times 3.0) + (3 \times 2.0) + (3 \times 1.0) = 15.00 + 12.0 + 9.0 + 6.0 + 3.0 = 45.0$ .
- (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 45.0 and his or her TLU is 15 (i.e. 5 courses at 3 units each for the semester). His GPA is therefore  $45 / 15 = 3.00$ . 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, it is the summation of TCP for all semesters to date, divided by the summation of TLU for the said semesters. In effect,  $CGPA = CCP/CLU$ .

### (g) Final Assessment and Class of Degree

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

For the purposes of determining the class of degree, the CG PA 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 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 have his name published in Dean's List. Each list is valid for only one semester immediately following the publication of the results and until the publications 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 tests at least three tests shall be given on each course in -1 semester

**(x) Final Examination**

Final written examination for a course shall not normally exceed three (3) hours; and shall be given only at the times and places established for that 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 s<sup>^</sup>- carry a 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 the 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 script 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 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 Or 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. 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 Examiners for consideration.
- The master marks sheets or results must be signed by the Chief Examiner of that 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 results 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**

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 course(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 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.

**(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.

**THE UNIVERSITY LIBRARY**

The University Library has continued to grow and is gradually coming of age. It has nearly 70,000 volumes of books and seat about 500 readers; subscribes to about 40 local and foreign journal titles. It houses over 22,596 volumes of foreign journal titles; and 2,192 local journal titles. The

library has about 1,195 reels of journal publications in microfilm and over 520 slides on cassette recordings of textual materials. It currently has FAO, WHO and other UN Agencies (to which the Library is a depository) publications. Its staff, through AGORA (Access to Global Online Research in Agriculture) has access to over 700 journal titles courtesy of FAO and other international donors etc. The library is fully networked with internet connectivity for automation and other library learning related services. It has library exchange facilities. Memberships of the library are available live and open to all student, academic, senior administrative and technical staff of the University. Others wishing to use the library on regular basis can do so with special permission of the University Librarian.

***Hours of opening***

Monday to Friday	8:00 a.m. - 9.00 p.m.
Saturday	9:00 a.m. 6.00pm
On environmental Sanitation day	11.00 a.m. -7.00 p.m.
Sunday	4.00 p.m.- 9.00 p.m.
Public Holidays	CLOSED

***During vacation***

Monday to Friday	8:00 am – 4.00pm
Saturday, Sunday & Public Holidays	CLOSED
8.00 a.m. - 4.00 p.m.	CLOSED

Notices giving warning or changes in hours of opening and services are usually displayed in the University Library.

**THE UNIVERSITY HEALTH SERVICES**

The University Health Centre provides preventive and curative health care to all University staff and students. In achieving these important objectives, there is a need for the past medical history of every student to be fully recorded during registration at the Health Centre. This is to maintain a bridge between medical care at home and the Health Centre.

**GENERAL REGULATION  
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 lectures 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 examinations 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 Invigilator 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 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, 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.
  - 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 way of attracting the attention of the Invigilator 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,
  - 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.
  - ivx. Candidates 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 ANDPENALTIES**

### **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 for benefit from examination question leakage  
**Penalty:** Suspension for two (2) semesters
4. **Misconduct:** Coming into the examination hall later than thirty(30) minutes after 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 an examination.

**Penalty:** The candidate should not be allowed into examination hall and he/she should be scored 0 (F) in the course examined.

**(B) MISCONDUCT DURING EXAMINATIONS**

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. He/she should be scored 0 (F) and be issue 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, deffacing, 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) semester

12. **Misconduct:** Giving, or receiving, or in any way benefiting 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) semester.

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 O(F) in the course.
- 22. *Misconduct:*** Bringing in unauthorized material(s) into the examination hall by a candidate with proven evidence using the material(s) or any part thereof.
- Penalty:*** Suspension for two (2) semesters. The candidate should also be scored (OF) in the course.
- 23. *Misconduct:*** Failure 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 O(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 internal or 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, signing, 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-wilful 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:** Students shall pay cost of replacement of the item or article and be suspended for two (2) semester
48. **Misconduct:** Fraud, advance free 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 Country.
49. **Misconduct:** Engaging in unauthorized commercial activities (operation of telephone services, business centres) in the halls 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. Involvement in electoral malpractice.  
**Penalty:** Expulsion from the University.
52. **Misconduct:** Involvement in electoral malpractice  
**Penalty:** Suspension for two (2) semester
53. **Misconduct:** Leasing and sale of bed space(s) in the hall of residence. Forfeiture of hall accommodation and suspension for one (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 University simultaneously.  
**Penalty:** Expulsion from the University
56. **Misconduct:** Unauthorised 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:** Unauthorised 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 / 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 result in the death of person/persons within and outside the University campus.  
**Penalty:** Expulsion from the University. Such student(s) should be handed over to the Nigeria Police.
64. **Misconduct:** Unauthorised 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 structures shall be demolished and the student(s) shall be surcharged for the cost of demolition.
65. **Misconduct:** Unauthorised 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:** Unauthorised use of any part of University buildings 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.
67. **Misconduct:** Defacing or damage to University buildings, structures, roads, statues with posters, banners inscriptions, graffiti, painting etc.  
**Penalty:** Suspension for one (1) semester. Such student(s) shall be surcharged for the cost of repair/renovation/restoration.
68. **Misconduct:** Sub-letting of University space, facilities, buildings, rooms etc.  
**Penalty:** Suspension for two (2) semesters.

69. **Misconduct:** Unauthorised 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 of 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 malpractice 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.

**(G) 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 events.  
**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.

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.

**THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE, NIGERIA**  
**DEPARTMENT OF FORESTRY AND WOOD TECHNOLOGY UNDERGRADUATE**  
**CURRICULUM**

**1. DEGREE OPTION:** Bachelor of Technology (Forestry & Wood Technology) (B. Tech. (Forestry & Wood Technology))

**2. PROGRAMME PHILOSOPHY**

The Department has been established to give prominence to sound scientific training and provide the much required impetus for rapid technological and industrial development in Forestry and Wood Technology. Forestry education in the past emphasized forest planting and management, while little attention was given to the important area of harvesting and utilization. By virtue of our mission, the programmes of the Department are therefore designed to give students the required academic and practical background in areas of afforestation, inventory, harvesting and utilization of forest resources. It also emphasizes special areas of social and environmental forestry, pulp and paper technology, forest growth modeling and yield prediction, wood waste utilization, and development of agroforestry practices to meet the increasing food and wood requirements of the country. In addition, the Department expects to provide high-level manpower that will be self-reliant in processing the forest resources.

**3. OBJECTIVES**

The objectives of the programme are to:

- (a) provide education in the science and technology of forestry resources management and utilization
- (b) provide opportunities for result-oriented research in forestry and wood technology, relevant to the country's needs in general and local needs in particular;
- (c) disseminate to the public the results of research and facilitate the practical application of these results;
- (d) collaborate with Federal and State Governments, parastatals, institutes and other organizations in the areas of research into forestry and wood utilization
- (e) work in cooperation with the other departments with the University in order to achieve its set goals; and
- (f) get involved in sustainable production of trees, food crops, and non-timber forest products.

**4. ADMISSION REQUIREMENTS**

**(a) UTME**

Candidates seeking admission into the five-year programme in Forestry and Wood Technology must possess at least five credits in WASC, SSCE, GCE (Ordinary level), NECO or equivalent at not more than two sittings in Chemistry, Biology in- Agricultural Science, Mathematics and English Language and at least a pass in Physics.

In addition, applicants must obtain an acceptable pass in University Tertiary Matriculation Examination (UTME).

**UTME Subjects:** The U.T.M.E. subjects are English Language, Chemistry, Biology or Agricultural Science, Mathematics or Physics.

**(b) Direct Entry**

For admission by direct entry (into second year of the programme), candidates must possess in addition to (a) above, any of the following requirements;

- i) National Diploma (ND with upper credit) or equivalent, or Higher National Diploma (HND) with lower credit in Forestry or Agriculture from recognized institutions.
- ii) GCE Advanced Level or equivalent at one sitting in at least two of the following subjects: Physics, Chemistry and Biology with a minimum of 6 (six) points.
- iii) Holders of National Certificate in Education with Agriculture double major and at credit pass level.

**5. DURATION OF THE PROGRAMME**

The programme is normally for a duration of five (5) academic sessions for UME candidates and four (4) academic sessions for direct entry candidates. A student should under normal circumstances spend five academic sessions to obtain the bachelor degree. However, if the student fails to graduate within the normal number of sessions, he / she will not be allowed to exceed a total of seven (7) academic session.

**6. REQUIREMENTS FOR GRADUATION**

To be eligible for the award of B. tech. (Forestry & Wood Technology) degree students must have:

- a. passed all core courses prescribed by the Department, as well as the University and School required courses and any elective recommended by the Department for specialization
- b. accumulated a minimum of 200 course units for the five programme or 157 course units for the direct entry programme and obtained a CGPA of not less than 1.00; and
- c. successfully completed all field practicals, Industrial Work Experience Scheme and an undergraduate project based on supervised research.
- d. all direct entry students are expected to audit and pass all University required courses: GNS 101, GNS 102, GNS 103, GNS 106, MEE 101 &MEE102

**STUDENTS:**

LEVEL ADVISERS (Course advisers doubled as level registration officers)

100 level - Dr. S. O. Olaniran (Assistant Lecturer)

200 level - Dr. A. Lawal (Lecturer II)

300 level - Dr (Mrs) O. V. Oyerinde (Reader)

400 level - Dr. Owoyemi J.M. (Senior Lecturer)

500 level - Dr. A.G. Adedayo (Reader)

## COURSE OUTLINE

### 100 LEVEL: 1<sup>st</sup> Semester

Course Code	Status	Course Title	L	T	P	Units
BIO 101	C	General Biology I	2	1	0	3
BIO 103	C	General Biology Practical I	0	0	3	1
CHE 101	C	General Chemistry	2	1	0	3
CHE 103	C	Experimental Chemistry Practical I	0	0	3	1
PHY 101	C	General Physics I	2	1	0	2
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	2	1	0	3
MEE 101	R	Engineering Drawing	1	0	6	3
GNS 101	R	Use of English I	1	1	0	2
GNS 103	R	Information Literacy	1	0	0	1
<b>Total</b>						<b>23</b>

### 100 LEVEL: 2<sup>nd</sup> Semester

Course Code	Status	Course Title	L	T	P	Units
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
<b>Total</b>						<b>21</b>



**200 LEVEL:****1<sup>st</sup> Semester**

Course Code		Course Title	L	T	P	Units
APH 201	R	Intro. to Animal Production & Health	1	0	3	2
CSP 201	R	General Agric. (Theory)	1	0	0	1
AGE 201	R	Principles of Farmshop	2	0	3	3
CHE 203	R	Organic Chemistry I	2	0	3	2
FAT 201	R	Int. to Fisheries & Aquaculture Mgt.	1	0	3	2
BCH 201	R	Fundamentals of Biochemistry	3	0	0	3
MSC 213	R	Meteorology for Agricultural Sciences	3	0	0	3
FST 201	R	Introduction to Food Science and Technology	1	0	3	2
EWM 201	R	Introduction to Ecotourism and Wildlife Management	1	0	3	2
		<b>Total</b>				<b>20</b>

		Audited Courses for D.E Students				
GNS 101	R	Use of English I	1	1	0	2
GNS 103	R	Information Retrieval	1	0	0	1
MEE 101	R	Engineering Drawing I	1	0	6	3

**200 LEVEL:****2<sup>nd</sup> Semester**

Course Code		Course Title	L	T	P	Units
APH 202	R	Anatomy & 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	6	2
PMT 210	R	Principles of Economics	2	1	0	3
ARE 202	R	Agric. Statistics & Field Experimentation	2	0	3	3
FWT 202	R	Int. to Forest Resources Mgt. & Agroforestry	2	0	3	3
CSC 102	R	Int. to Computing	2	0	3	3
FWT 204	R	Int. to Use of Computers in Natural Resources	2	0	3	3
		<b>Total</b>				<b>24</b>

FWT 290		Student's work experience programme I (SWEP)	0	0	0	4
		<b>Audited Courses for D.E Students</b>				
MEE 102	R	Workshop Practice	0	0	6	2
GNS 102	R	Use of English II	2	0	0	2
GNS 106	R	Philosophy and Logic	2	0	0	2

**300 LEVEL:****1<sup>st</sup> Semester**

Course Code		Course Title	L	T	P	Units
FWT 303	C	Forest Survey	1	0	3	2
FWT 305	C	Principles of Silviculture	1	0	3	2
FWT 309	C	Basic Properties of Wood (C)	1	0	3	2
FWT 311	C	Wood Chemistry (C)	1	0	3	2
FWT 315	C	Forest Pests and Diseases	1	0	3	2
FWT 317	C	Natural Ecosystem and Plant Taxonomy	1	0	3	2
FWT 319	C	Principles of Forest Management	1	0	3	2
AEC 303	C	Introduction to Rural Sociology	2	1	0	3
ENT 301	R	Introduction to Entrepreneurship	2	1	0	2
		<b>Total</b>				<b>19</b>

**300 LEVEL:****2<sup>nd</sup> Semester**

Course Code		Course Title	L	T	P	Units
FWT 306	C	Industrial Plantation Establishment & Technology	1	0	3	2
FWT 308	C	Forest Mensuration	1	0	3	2
FWT 310	C	Principles of Forest Economics	1	0	3	2
FWT 312	C	Wood-based Panel Products	1	0	3	2
FWT 314	C	Sawmilling & Wood Machining	1	0	3	2
FWT 316	C	Wood Seasoning and Preservation	1	0	3	2
FWT 318	C	Ecological Assessment of Nigeria's vegetation Types	0	0	6	2
FWT 320	C	Forest soils	1	0	3	2
FWT 322	C	Computer application in Forestry and Wood Technology	1	0	3	2
FWT 324	C	Introduction to Remote Sensing	1	0	3	2
ENT 302	C	Practical skills in Entrepreneurship	0	0	9	3
		<b>Total</b>				<b>23</b>

Elective						
EWM 302	E	Wildlife population Dynamic	2	0	3	3
CSP 306	E	Fundamentals of Horticulture	1	0	3	2
FWT 390	E	Student's work experience programme II (SWEP)	0	0	0	4

**400 LEVEL:****1<sup>st</sup> Semester**

<b>Course Code</b>		<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Units</b>
FWT 401	C	Forest Inventory	2	0	3	3
FWT 403	C	Wood Harvesting and Transportation	1	0	3	2
FWT 405	C	Pulping and Bleaching Technology	1	0	3	2
FWT 409	C	Biometrics	2	0	1	3
FWT 415	C	Furniture Design and Production	1	0	3	2
FWT 417	C	Agroforestry System	1	0	3	2
FWT 421	C	Application of Geographic Information System in forestry	1	0	3	2
FWT 423	C	Multiple Land use	1	0	3	2
		<b>Total</b>				<b>18</b>

<b>Elective</b>						
EWM 401	E	Biodiversity conservation, ecology and Management	2	0	3	3

**400 LEVEL:****2<sup>nd</sup> Semester**

<b>Course Code</b>		<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Units</b>
FWT 402	C	Industry-based Supervisor's Assessment	0	0	0	4
FWT 404	C	FUTA Supervisor's Assessment	0	0	0	4
FWT 406	C	Students' Report and Seminar	0	0	0	4

**500 LEVEL:****1<sup>st</sup> Semester**

<b>Course Code</b>		<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Units</b>
FWT 501	C	Forest Policy, Law & Administration	2	1	0	3
FWT 505	C	Forest Engineering	1	0	3	2
FWT 509	C	Paper Making Technology	1	0	3	2
FWT 511	C	Environmental Impact Assessment of Forest Project	1	0	3	2
FWT 513	C	Forest Research Methods & Scientific Writing	1	0	3	2
FWT 515	C	Forest Protection	1	0	3	2
FWT 519	C	Finished Wood Products	1	0	3	2
FWT 599	C	Final year Student's project	0	0	18	6
		<b>Total</b>				<b>21</b>

<b>Electives</b>						
FWT 503	E	Engineering Properties of Wood	1	0	3	2
FWT 517	E	Forest Genetics and Tree Breeding	1	0	3	2

**500 LEVEL: 1<sup>st</sup> SEMESTER**

<b>Course Code</b>		<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Units</b>
FWT 500	C	Student's Seminar	0	2	0	2
FWT 502	C	Forest Economics & Management	2	0	3	3
FWT 506	C	Forest Products Marketing	1	0	3	2
FWT 510	C	Wood Adhesives and Fasteners	1	0	3	2
FWT 512	C	Social and Environmental Forestry	1	0	3	2
FWT 514	C	Forest Reserve and Park Management	1	0	3	2
FWT 516	C	Forest Extension and Rural Sociology	1	0	3	2
		<b>Total</b>				<b>15</b>

<b>Electives</b>						
FWT 518	E	Forest Biometrics	1	0	3	2
EWM 502	E	Impact of Ecotourism on Ecosystem	2	0	3	3
ARE 508	E	Concept of Agribusiness	1	0	3	2
FWT 504	E	Wood Structures	2	0	3	3

\*C = Core Course R = University/School Required Course E = Electives

## **COURSE DESCRIPTION**

### **FWT202: Introduction of Forest Resources Management and Agroforestry (3 units)**

Renewable natural resources, availability, distribution and potential, important indigenous trees, classification, morphology and distribution of important trees. Forest reserves in Nigeria. Silviculture; afforestation; characteristics of major timber and uses. Deforestation, land degradation and land-use problems in the tropics; the concept of agroforestry; historic developments and socio-economic rationale of agroforestry; agroforestry systems and practices; classification of agroforestry systems; multidisciplinary approach to land- use; sustainability and adaptability criteria; biological and economic considerations; diagnosis of agroforestry - related land-use problems; forest law and tenure issues.

### **FWT 204: Introduction to Use of Computers in Natural Resources (2 units)**

Introduction to computer hardware components and their functions; Operating systems and application packages such as Microsoft Office; File management—opening and saving files, creating folders and sub-folders, searching for and retrieving saved files; Working with the mouse and keyboard; Use of computer software for word processing; Use of spreadsheets; Preparation of PowerPoint presentations; introduction to desktop publishing and use of the Internet.

### **FWT 303: Forest Survey (2 units)**

Procedures in ground survey and ground survey instruments. Chain surveying (open and close traversing) and triangulation. Obstacles in chain survey, how to overcome them and sources of errors. Compass survey: function, limitations and use during survey exercise and sources of errors. Plotting around survey maps, plans and methods of area calculations. Lettering and conventional signs. Leveling and contours. Plane tabling. The theodolite: uses in tacheometry and Forest road alignment.

### **FWT 305: Principles of Silviculture (3 units)**

Introduction to the problems of raising tree crops. Application of ecological principles for establishment and maintenance of forest. Plantation and nursery practices. Seed technology. Photosynthesis: Factors affecting photosynthesis; Phases in and distribution of photosynthates. Water uptake and loss in a tree. Accumulation of nitrogen and nitrogen cycling in forest ecosystem. Plantation establishment: choice of species, species and provenance trials, tree crop production practices, and manipulation of natural forest. Major forest types in the tropics and silvicultural management system.

### **FWT306: Forest Plantation Establishment and Technology (3 units)**

Nursery Technology: Nursery site selection and preparation. Tending operations in the nursery, Nursery beds and sowing methods, Types of potting mixture. Types of nursery stocks: merits and demerits of each, Preparation and transportation of nursery stocks. Nursery care. Plantation Technology: Site preparation, ground preparation and Planting operations. Enspacement and pegging, Silvicultural techniques for plantation forest (weeding, thinning, pruning, etc). Species selection for afforestation programmes (factors to be considered), Provenance trials, Pre-germination test.

**FWT308: Forest Mensuration (3 units)**

Fundamentals of resource inventory and mensuration. Theory of tree measurements: diameter, height, back thickness, taper and form, and tree volume estimation. Stand volume estimation and volume equations. Tree measurement's Instruments. Concepts of growth: increment of trees and stands. Stand table projection; volume tables; yeild tables; growth and yield equations/ modelling. Concept of stand structure: stand density and stocking. Site quality assessment and site index. Tree biomass estimation.

**FWT309: Basic Properties of Wood (3 units)**

Sources and types of wood. Macroscopic and microscopic characteristics of wood, including Cell-wall ultra-structure. Mechanism of wood formation. Normal variability and growth defects in wood. Wood structure: relation to physical and mechanical properties and uses of wood, wood-water relations, density, porosity, fluid flow, and wood response to force systems. Natural durability. Identification of principal commercial timber species.

**FWT 310: Principles of Forest Economics (2 units)**

Definition of economics, Major fields of economics, Definition of forest goods and services, Concepts of scarcity, choice, alternative uses, opportunity cost, Application of economic principles to forest resources(factors of production, supply and demand, equilibrium), Definition of forest economics, Issues of forest economics, Definition of natural resources, Characteristics and classification of natural resources, Definition of forest resources, Characteristics and classification of forest resources, Special and unique features of forests, Concepts and methods of pricing timber resources, : Market structure and introduction to forestry investment analysis.

**FWT 311:Wood Chemistry (2 units)**

Chemical composition of wood: elemental and molecular. Structure of wood primary components: Cellulose, hemicelluloses, lignin and wood extractives: (classes and effect on wood and wood utilization). Determination of wood primary components. Physical and chemical reactions of wood. Wood chemical derivative: hydroxymethyl cellulose, acetate, xanthrate, and nitrate. Introduction to the chemistry of wood conversion to pulp and paper.

**FWT 312:Wood based Panel Products (3 units)**

Definitions of wood based panel products. Importance of wood based-panel production. Wood-based panel manufacturing: plywood, particleboard and fibreboard (raw materials and manufacturing processes; properties and uses). Other variants: Plywood (blockboard, laminboard and battenboard); particleboard (cement-bonded particleboard); flbreboard (hardboard, softboard). Wood plastic composite.

**FWT 313:Plant Introduction and Quarantine (2 units)**

Principles and effectiveness of plant quarantine; Quarantine regulations and the drawbacks; Pest/pathogen detection techniques; Methods of salvaging infested materials; Examination of pest/pathogen risks; principles of plant introduction and tree improvement; seed certification; utilization of gene resources.

**FWT314: Sawmilling (2 units)**

Theory of cutting. Machining processes. Equipment in sawmilling e.g. band saws, circular saws, turning lathe, spindle moulder, planing machine etc. Types of product and yield. Plant and yard layout. Material handling. Dust extraction from wood industries. Pollution control measures. Saw doctoring techniques. Types of saw teeth.

**FWT316: Wood Seasoning and Preservation (2 units)**

Biodeteriorating agents (e.g. fungi, insect such as termites, pinhole borers, powder post beetles, carpenter ants, etc.); Photo-degradation; Air and kiln seasoning of wood. Drying schedules, drying defects and methods of preservation. Other methods of preserving wood: structured design, non-pressure vacuum, vacuum pressure and preservatives.

**FWT 318: Ecological Assessment of Nigeria's Vegetation types (2 units)**

Field trips to various ecological zones in Nigeria for assessment of biodiversity, plant species composition and physiognomy. The course is a practical course and students are expected to collect specimens from each vegetation zone, prepare photo gallery to flow the characteristics of each *zone* and submit field reports at the end of the trips.

**FWT 320: Forest Soils (2 units)**

Understanding of soil dynamics and influence on forest composition. Physical properties of forest soil. Soils and forest growth (live growth rate and vigour). Features of forest soils: soil physics, chemistry, or organism and water movement. Forest nursery management. Determination and maintenance of forest soil fertility with reference to tropical conditions. Value of forest as soil conservation agents. Mycorrhizae and their importance to forest trees.

**FWT 322: Computer Applications in Forestry and Wood Technology (2 units)**

Application of computers to forestry projects; scheduling forestry operations; User needs analysis; designing forest information systems; working with databases; introduction to customized software for forest management planning (e.g. PROGNOSIS, VMDY *etc.*), Open source software of use in forestry and wood technology.

**FWT 324: Introduction to Remote Sensing (2 units)**

Basics of remote sensing; Importance of remote sensing in forestry; Remote sensing systems; Electromagnetic spectrum; Aerial Photography: uses of aerial photography, aerial camera and films, stereoscopy, photogrammetry (measurements from aerial photographs), aerial photo-interpretation, mapping from aerial photographs; Aerial and Satellite sensor imageries: microwave sensing, thermal infra-red sensing, Land sat multi-spectral application of remote sensing.

**FWT 401: Forest Inventory (3 units)**

The basics of forest inventory; Planning of forest inventory; Challenges of forest inventory in the tropics; Inventory sampling design; sampling techniques in forest inventory; Probability Sampling Technique — Simple Random Sampling, Stratified Random Sampling, Multiphase Sampling, Multiphase Sampling technique etc), Non probability sampling technique (Systematic sampling (cluster and plot methods), Line transect, Ricochet Plot Location, Cluster sampling etc); Field trip to conduct forest inventory of a selected forest area; camp set up and field crew organization; forest measurement procedures; field data compilation; inventory data processing; inventory reports.

**FWT 402 (4 units), FWT 404 (2 units), FWT 406 (4 units)**

Students' Industrial Work Experience Scheme (SIWES) Students are attached to forestry organizations and wood industries, research stations, and other relevant places, with a view to making the students develop more skills in their various disciplines, and providing additional opportunities for students to learn how to write field reports. Students are supervised during the training period and shall be expected to keep log books and other records designed for the purpose of monitoring their performance.

**FWT 403: Wood Harvesting and Transportation (2 units)**

Methods of harvesting. Terrain and its effects on harvesting. Equipment for harvesting. Age and maturity determination in forest trees. Felling, logging and skidding. Timber truck loading. Log transportation by road. Log transportation by water.

**FWT 405: Pulp and Bleaching Technology (2 units)**

Raw materials for pulp production. Waste paper recycling. Conversion of wood to mechanical and chemical pulps. Kraft, sulphite and semi-chemical pulping processes. Chemical recovery systems. Bleaching of mechanical and chemical pulps.

**FWT 409: Biometrics (3 units)**

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

**FWT 421: Multiple Land Use (2 units)**

Basic concepts: land, land characteristics and qualities. Land capability classification. Land improvement. Integrated land use for forestry, wildlife, fisheries and agricultural purposes. Forest laws and land tenure. Factors influencing land-use patterns (population pressure, land tenure, watershed protection, infrastructures, etc.).

**FWT 415: Furniture Design and Production (2 units)**

Classification of furniture products, principle of furniture design, raw materials in furniture production, production conditions and interchangeability (Dimensions, deviations, tolerance, classes of precision). Operation sequence, machines and formation of component parts, assembly of furniture parts, furniture-finishing processes.

**FWT 417: Agroforestry Systems (2 units).**

The traditional agroforestry production systems slash and burn, old fallow system. Review of some modern agroforestry system such as Taungya, Alley cropping, Agrisilvopastoral etc. Agroforestry tree species: Design and evaluation of agroforestry systems. Adoption of agroforestry systems.

**FWT 421: Application of Geographic Information Systems in Forestry (2units)**

Concept of Geographic Information Systems (GIS) and review of different application areas of GIS; hardware and software; raster and vector-based GIS systems; creating and editing spatial data; working on geospatial projects, adding and editing (themes and attribute tables; querying data; creating land use and vegetation maps; map projections; image analysis and interpretation.



**FWT 500: Seminar (2 units)**

Instruction on the preparation, presentation and discussion of critical reviews of topics important to Forestry and Wood Technology. Students will be assigned to supervisors who will guide them through the process. The course will culminate in seminars to be presented by each student on the chosen topic.

**FWT 501: Forest Policy, Law and Administration (3 units)**

Meaning, importance and general contents of forest policy. Implementation of forest policy. Components of forest law: law of procedure, law of evidence and criminal law. Compounding criminal offence under forest law. Contract. Legal aspects of forest protection. Meaning and importance of forest administration. Forest administration organ gram: Significance of lateral and vertical relationships, delegation of authority and the effects on forest resource management. Forestry commission.

**FWT 502: Forest Economics and Management (3 units)**

Forest Economics and Management (3 units) Classification and characteristics of natural resources. Issues in forest economics. Role of economists in allocating use of natural resources. Natural resources and economic development. Supply, demand and pricing of forest resources. Total economic value of forest, Forest ecosystem services (definition, classification and characteristics, Forest resources valuation (Importance and methods), Forestry investment analysis, Objectives and relevance of economics in forest management. Economic considerations in timber management: determination of optimum rotation, sustained yield concept and yield regulation and Concept of multiple uses in forest management.

**FWT 503: Engineering Properties of Wood (2 units)**

Structural models of wood. The effect of orthotropic nature of wood on its physical and mechanical properties. Concept of stress and strain. Elastic constants of wood. Strength properties of wood: bending strength - Modulus of Rupture (MOR) and Modulus of Elasticity (MOE), compression parallel and perpendicular to grain. Methods of determining strength properties of wood. Factors affecting strength properties of wood: specific gravity, moisture content and temperature. Allowable stresses in wood. Application of Harkinson's formula in estimating strength of wood at an angle to the grain. Rheology of wood: creep and relaxation. Shear stress and strain. Duration of load. Fatigue. Nature of wood as fuel. Combustion characteristics of wood and factors affecting heating value of wood.

**FWT 504: Wood Structures (3 units)**

Basic theory of structures including considerations of elastic and non-elastic deformation. General requirements for structural designs. Standard dimensions of structural timbers. Grade stresses, grouping of timber species. Design of wooden beams, columns, trusses and timber superstructures (bridges, buildings and water front structures).

**FWT 505: Forest Engineering (2 units)**

Application of engineering principles to forestry operations including nursery, reforestation, harvesting, road layout, log transportation and milling. Design, construction) drainage and maintenance of forest roads, bridges, dams and buildings. Construction equipment. Principle of transportation engineering.

**FWT 506: Forest Products Marketing (2 units)**

Concept of modern marketing, Marketing mix, Products (definition, types and elements), Stages in new product development, Product life cycle and management strategies, New product failure and success, Product differentiation, Market segmentation, Pricing theories, objectives and strategies, Market structure, End use pattern of forest products. Quality standards and quality control of wood-based products. Marketing of wood products. Timber certification (potential benefits, problems and constraints), Concept of eco-labelling – purchase of green products based on their low environmental impact and Marketing environment.

**FWT 509: Paper Making Technology (2 units)**

Introduction to paper manufacturing. Paper industry overview. Raw materials used for paper production. Fundamental steps in paper production. Stock preparation: beating/refining, consistency control, sizing, and sizing agents. Effect of sizing agents on paper properties. Application of dyes coloured pigments, soluble dyes, acid, basic and direct dyes. Paper formation: head box, Fourdrinier wire section, felting at pre-dryer section, dryer section, calendar stack Quality control. Physical and mechanical properties of paper; grammage, cobb size, tearing, bursting, folding endurance, abrasion resistance, scuff resistance, rigidity, stiffness, tensile and opacity of paper. Paper products: industrial paper, writing/printing) paper, paper board, corrugated container and box board. Printing and types of printing process.

**FWT 510: Wood Adhesives and Fasteners (2 units)**

Development of wood adhesives. Advantages and disadvantages of adhesive bonding. Principles of adhesion and Composition of adhesives. Selection of adhesives for bonding. Basic bonding process oil Glued joints: butt, scarf and finger joints. Types of mechanical fasteners: nails, boll', screws, split ring and tooth plate connectors. Loads slip characteristics of mechanically fastened joints. Specifications on the types of connections in wood structures.

**FWT 511: Environmental Impact Assessment of Forestry Projects (2 units)**

Characteristics of forestry projects. Introduction to EIA (Definition and objectives of EIA, History of EIA, Terminology, and Benefits of EIA process Basic principles of EIA good practice), Environmental issues, impacts and mitigation measures, Major participants in EIA systems, EIA process, Components of EIA System( Legislation and framework, EIA legislative requirements and administrative procedures, Regulatory requirements/techniques for developing EIA procedures), Public participation in EIA System, EIA Methods/Tools, Constraints to EIA development,Preparation and evaluation of environmental impact assessment reports. Case studies of selected forestry and forestry-related projects for assessment environmental impactsand Environment Management Plan/Environmental Audit Case studies of EIA for Industries.

**FWT 512: Social and Environmental Forestry (2 units)**

Forestry and community development. Social benefits of forestry: income and employment generation Ecological functions of forests and wooded areas: shelterbelts, sand dune fixation, control of erosion, soil conservation, land reclamation, micro-climate and hydrology Rural forestry policies; institutional and technical constraints.

**FWT 513: Forest Research Methods and Scientific Writing (2 units)**

Types of research in forestry. Planning research and conducting research activities. Information resources for research. Research proposal writing. Task scheduling and preparation of work plans.

Budget preparation for proposed projects. Types of research reports and report writing process. Proof-reading and editing of research reports.

**FWT 514: Forest Reserves and Parks (3 units)**

History of forest reservation in Nigeria, Phases of forest reservation in Nigeria, Problems of forest reservation in Nigeria, Concepts, principles and policies influencing the development of forest reserves, plantations and parks, with special reference to Nigeria. Establishment, management and working plan for forest reserves, plantations and parks. Roles of forest reserves in rural livelihood and national development. Biodiversity conservation (In-situ and Ex-situ methods), Biodiversity conservation indices, Forest ecosystem management.

**FWT 515: Forest Protection (2 units)**

Importance of forest entomology. Pest: classification, economic pests and pest control. Insect collection and preservation. Forest pathology, with special reference to important diseases, e.g. root rot. Fire: combustion and the triangle; breaking the fire triangle; heat transfer; fire fighting methods and tools.

**FWT 516: Forestry Extension and Rural Sociology (2 units)**

Important basic philosophies and institutional setting of forestry extension. Basic concepts and principles in rural sociology: importance of rural communities and institutions; social stratification; social processes; social changes; leadership (roles; functions and development). The extension agents and the rural community. Communication techniques and strategies or change, with special reference to extension teaching methods and aids in forestry.

**FWT 517: Forest Genetics and Tree Breeding (2 units)**

Definitions: forest genetics and tree breeding. Problems peculiar to forest genetics. Quantitative genetics in tree improvement. Principles underlying choice of species. Utilization of gene resources without breeding: seed zones, seed production areas and production seed orchards. Seed registration and certification. Utilization of gene resources by breeding. Selection of tree species with desirable characteristics. Propagation of selected materials and progeny trials. Artificial hybridization; mutation breeding and inbreeding. Conservation of gene plasm.

**FWT 518: Forest Biometrics (2 units)**

Application of basic biometrical techniques to problems in forestry and wood technology. Processing of data for management purposes. Selected topics in applied statistics, e.g. analysis of proportions, frequency distribution models, multiple regression, stepwise regression, model building techniques, multivariate statistics; use of common statistical packages for forestry data analysis; interpretation of results of statistical analysis.

**FWT 519: Finished Wood Products (2 units)**

Classification of finished products of wood, windows and door frames; prefabricated wood houses, boxes and drums, sporting articles technical articles (pencils, match splints, musical instruments). Technology of finished wood products.

**FWT 599: Final Year Student's Project (6 units)**

Supervised study of an identified problem requiring both oral and written presentations. Students must attend tutorials on research techniques and scientific writing as well as all oral presentations relating to students' projects in the school. In addition, students will prepare and present project

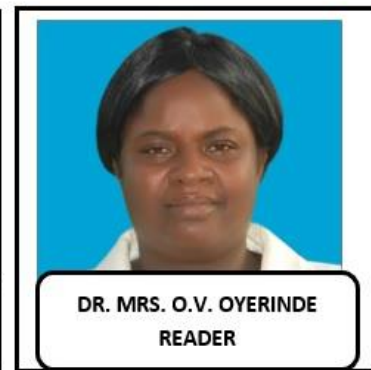
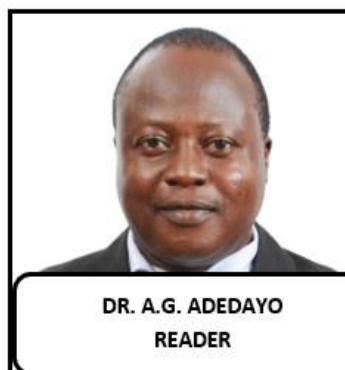
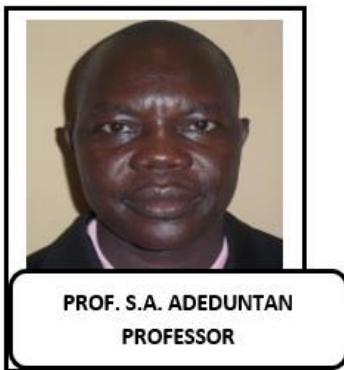
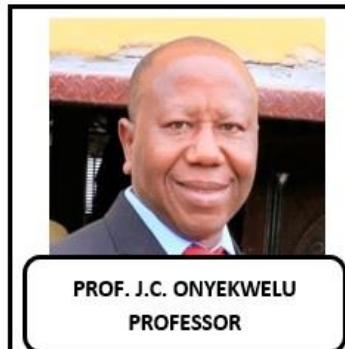
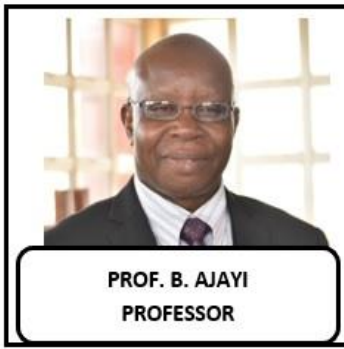
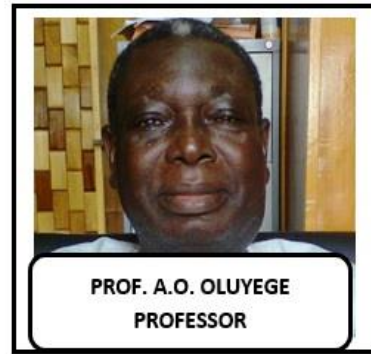
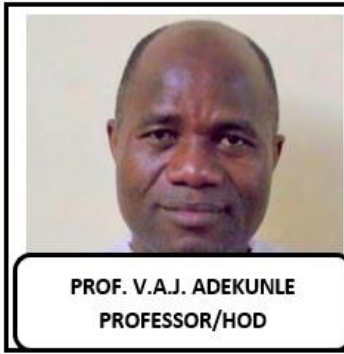
proposal, execute the approved proposal and submit a project report to the Department. The report shall be defended during oral examination, which shall be conducted in the presence of the External Examiner.

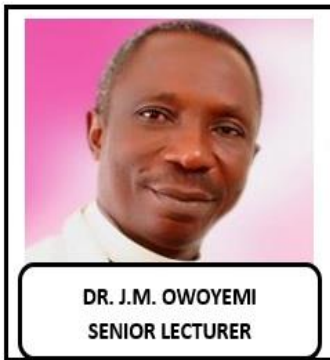
## DEPARTMENTAL STAFF LIST

S/N o.	NAME	QUALIFICATION	RANK	AREA OF SPECIALIZATION
1	Prof. V.A.J. Adekunle	B. Agric. Tech., M.Sc., Ph. D	Professor/HOD	Forest Inventory and Ecology
2	Prof. J. A. Fuwape	B.Sc. M.Sc., Ph. D	Professor	Wood Science and Biomass Energy
3	Prof. A. O Oluyeye	B.Sc. M.Sc., Ph. D	Professor	Wood Science and Products Technology
4	Prof. S.O Akindele	B.Sc. M.Sc., Ph. D	Professor	Biometrics and Forest Inventory
5	Prof. M. B .Oyun	B.Sc. M.Sc., Ph. D	Professor	Silviculture and Forest Biology
6	Prof. B. Olufemi	M.Sc., Ph. D	Professor	Wood Products Development
7	Prof. B. Ajayi	PGD. M.Sc., Ph. D.	Professor	Wood Products and Bio- composite Technology
8	Prof. J. C. Onyekwelu	B.Sc. M.Sc., Ph. D	Professor	Silviculture and Forest Management
9	Prof. D.O. Oke	B. Agric. Tech., M. Agric. Tech., Ph. D	Professor	Agroforestry
10	Prof. S. A Adeduntan	B. Agric. Tech., M. Agric. Tech., Ph. D	Professor	Forest Biology/Entomology
11	Dr. A. G. Adedayo	B. Agric. Tech., M. Agric. Tech., Ph. D	Reader	Forest Policy and Social Forestry
12	Dr. Mrs. O. V. Oyerinde	B. Agric. Tech., M. Agric. Tech., Ph. D	Reader	Forest Economics
13	Dr. J. M Owoyemi	FTC,NCE,B. Sc., M. Agric Tech., Ph. D	Senior Lecturer	Wood Protection and Utilization
14	Dr. Amadu Lawal	B. Agric. Tech., M. Agric. Tech. Ph. D	Lecturer II	Forest Genetics and Tree Breeding
15	Mr. K.S. Olonisakin	B. Agric. Tech., MSc	Lecturer II	Wood Products Technology
16	Dr. S. O. Olaniran	B. Agric. Tech., M. Agric. Tech. Ph. D	Lecturer II	Wood Science & Protection Technology
17	Mr. O. A. Adeyemi	B. Agric. Tech. MSc	Assistant Lecturer	Environmental Management
18	Mr. E.A. Iyiola	B. Agric. Tech., M. Agric. Tech.	Assistant Lecturer	Wood Science and Products Technology
19	Miss. T.E. Afolabi	B. Agric. Tech.	Graduate Assistant	
20	Mr. O. Boboye	B. Agric. Tech., M. Agric. Tech.	Teaching Assistant	Forestry and Wood Technology
21	Mr. E. Opara	B. Agric. Tech., M. Agric. Tech.	Teaching Assistant	Forestry and Wood Technology
22	Mrs. A. Adeboyejo	B. Agric. Tech., M. Agric. Tech.	Teaching Assistant	Forestry and Wood Technology
23	Miss. T. F. Akinkunmi	B. Agric. Tech.	Graduate Assistant	Forest Biology and Silviculture
24	Mrs. B. H. Dafiewhare	HND, PGD	Chief Lab. Technologist	Forest Soil/Chemistry

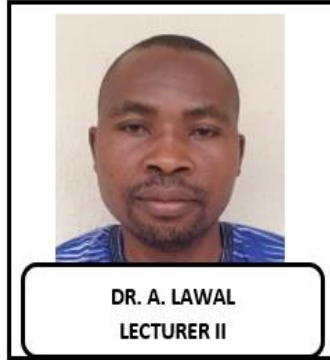
25	Mr. S. C. Akinboboye	WASC, City and Guild	Assist. Chief. Tech. Officer	Mechanical Wood Processing
26	Mr. Dauda Aliyu	B. Agric. Tech. PGD., M. Agric. Tech	Senior Technologist	Wood Technology
27	Mrs. B.M. Tobi-Ayorinde	WASC, NCE, Advance Cert. Course in Computer, Typewriting 25, 35, & 50 WPM, Shorthand 50 WPM.	Chief Secretarial Assistant	-
28	Mr. B. E. Omomoh	HND	Technologist I	Forestry Technology
29	Mrs. O.E. Falade	HND, PGD, M. Agric. Tech. (in view)	Technologist I	Wood Technology
30	Mrs. O.D. Oladapo	HND, B.Sc. (in view)	Technologist I	Wood Technology
31	Mr. M.M. Ekundayo	Labour Trade Test I &II., Federal Craft Training Certificate(Technical)	Senior Craftsman	-
32	Mr. A.M. Akazue	Primary Six Certificate, Labour Trade Test I &II	Senior Craftsman	-
33	Mr. I. I. Idume	WASC, Craft Training Certificate	Head Lab. Attendant	-
34	Mr. O. Alofin	JSS Certificate	Lab. Assistant	-
35	Mrs. F.E. Adeoba	WASC, GradeII	Senior Lab Assistant	-

## DEPARTMENTAL STAFF

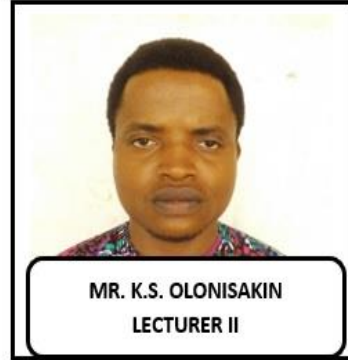




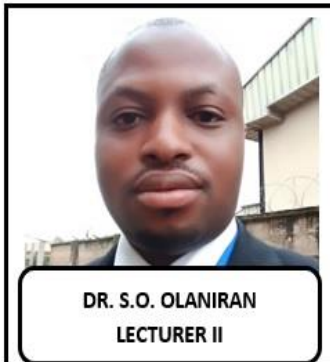
**DR. J.M. OWOYEMI**  
**SENIOR LECTURER**



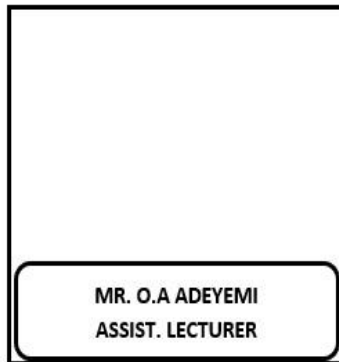
**DR. A. LAWAL**  
**LECTURER II**



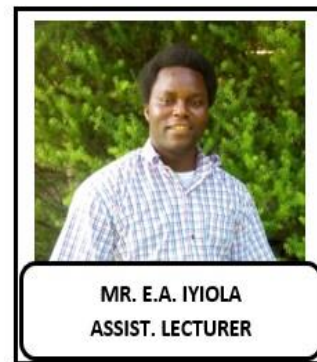
**MR. K.S. OLONISAKIN**  
**LECTURER II**



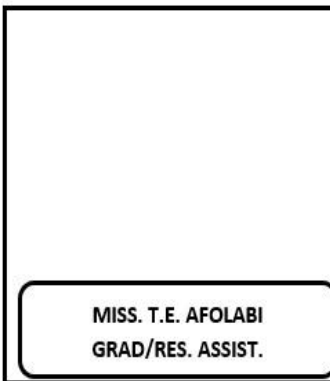
**DR. S.O. OLANIRAN**  
**LECTURER II**



**MR. O.A ADEYEMI**  
**ASSIST. LECTURER**



**MR. E.A. IYIOLA**  
**ASSIST. LECTURER**



**MISS. T.E. AFOLABI**  
**GRAD/RES. ASSIST.**



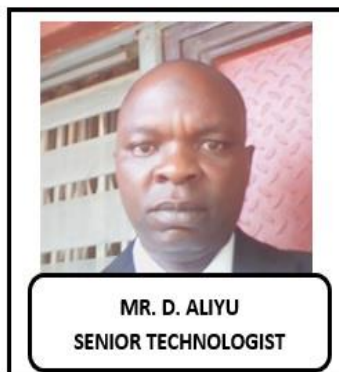
**MISS. T.F. AKINKUNMI**  
**GRAD/RES. ASSIST.**



**MRS. H.B. DAFIEWHARE**  
**CHIEF. LAB. TECH.**



**MR. S.C. AKINBOBOYE**  
**ASSIST. CHIEF. TECH. OFF.**

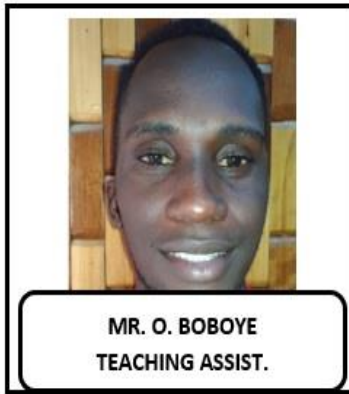
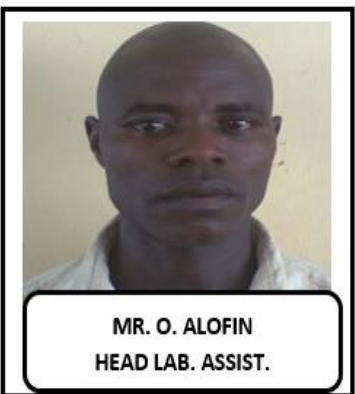
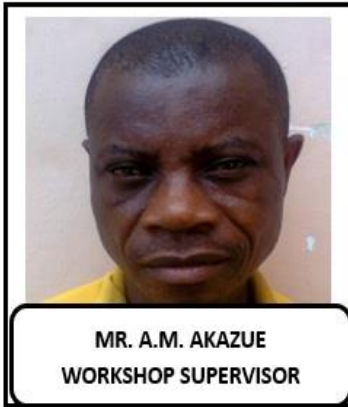


**MR. D. ALIYU**  
**SENIOR TECHNOLOGIST**



**MRS. B.M. TOBI-AYORINDE**  
**CHIEF SECT. ASSIST.**





## Department of Forestry & Wood Technology

### Available Course Options for Postgraduate Programmes

#### Postgraduate Diploma:

- i. Forestry and Wood Technology
- ii. Environmental Management

In addition to the above stated options, students may conduct research in the following areas:

- Forest Resource/Economic Management
- Value Added Products Development
- Climate Change Assessment and Economics
- Herbal Science Natural Therapeutic
- Biocomposite Technology
- Furniture Design & Production
- Wood Processing Technology

#### M.Agric. Tech.:

- i. Forest Management
- ii. Forest Biology/Silviculture
- iii. Agroforestry/Soils
- iv. Wood Science Technology
- v. Wood Product Technology
- vi. Forest Inventory & Biometrics

In addition to the above stated options, students may conduct research in the following areas:

- Forest Resources Economics
- Biocomposite Technology
- Bio Energy Technology
- Furniture Design & Production
- Pulp & Paper Technology
- Wood Chemistry
- Forest Ecology & Climate Change
- Forest Policy and Gender Issues

#### PhD:

- i. Forest Management
- ii. Forest Biology/Silviculture
- iii. Agroforestry/Soils
- iv. Wood Science Technology

- v. Wood Product Technology
- vi. Forest Inventory & Biometrics

In addition to the above stated options, students may conduct research in the following areas:

- Forest Resources Economics
- Biocomposite Technology
- Bio Energy Technology
- Furniture Design & Production
- Pulp & Paper Technology
- Wood Chemistry
- Forest Ecology & Climate Change
- Forest Policy and Gender Issues