

**OBAFEMI AWOLOWO UNIVERSITY,  
ILE-IFE, NIGERIA**



**FACULTY OF AGRICULTURE  
DEPARTMENT OF AGRICULTURAL  
ECONOMICS**

**BACHELOR OF AGRIC  
IN AGRICULTURAL ECONOMICS  
DEGREE PROGRAMME  
2019**

## 1.0. INTRODUCTION

### 1.1 Members of Staff of the Department

#### (a) Academic Staff

	<b>NAMES</b>	<b>QUALIFICATION</b>	<b>STATUS</b>	<b>AREA OF SPECIALISATION</b>
1.	T. Alimi	B.Sc. (Ife), M.B.A. (Lagos), Ph.D. (Ife)	Professor	Agricultural Business management; Agric. Finance
2.	E. O. Idowu	B.Sc., M.sc. Ph.D. (Ife)	Professor	Resource and Environmental Economics
3.	A. B. Ayanwale	B.Agric., M.Phil., Ph.D (Ife)	Professor	Production Economics
4.	A. S. Bamire	B.Agric., M.Phil., Ph.D (Ife)	Professor	Resource and Environmental Economics
5.	A. A. Tijani	B.Agric., M.Phil., Ph.D (Ife)	Professor	Production Economics; Farm management
6.	O. Oluwasola	B.Agric., M.Sc., Ph.D (Ife)	Reader	Agricultural Development and Policy
7.	J. T. O. Oke	B.Agric., M.Sc. (Ibadan), Ph.D (Ife)	Reader	Agricultural Business Management; Agricultural Finance
8.	A. A. Akinola	B.Agric., M.Sc., Ph.D (Ife)	Reader	Agricultural resource and Environmental Economics
9	I. O. Baruwa	B.Agric., M.Sc., Ph.D (Ife)	Reader	Production Economics; Farm management
10.	O. A. Yesufu (Mrs)	B.Agric., M.Sc., Ph.D (Ife)	Senior Lecturer	Agricultural Marketing and Cooperatives

11.	R. Kassali	B.Agric. (Niamey), M.Sc., Ph.D (Abidjan)	Senior Lecturer	Agricultural Marketing and cooperatives
12	A. T. Adesiyun	B.Agric., M.Sc., Ph.D (Ife)	Senior Lecturer	Agricultural resource and Environmental Economics
13.	O. F. Adesiyun	B.Agric., M.Sc., Ph.D (Ife)	Senior Lecturer	Agricultural Business Management
14.	V.A. Tanimonure	B.Agric., M.Sc., Ph.D (Ife)	Lecturer I	Agricultural Business Management
15.	A. S. Ogunleye	B.Agric., M.Sc., Ph.D (Ife)	Lecturer I	Agricultural Finance and Cooperative
16.	A.O Adelekun	B.Agric., M.Sc., Ph.D (Ife)	Lecturer I	Agricultural Business management
17.	A.D. Kehinde	B.Tech. (Ogbomosho), M.Sc., Ph.D (Ife)	Lecturer I	Agricultural Cooperative and Finance
18.	T.O. Ojo	B.Agric., M.Sc., (Ife), Ph.D (Kwazulu-Nata)	Lecturer I	Agricultural Finance
19.	A.O Ige	B.Agric., M.Sc., (Ife)	Assistant Lecturer	Agric. Development and Policy
20.	O.D. Omodara	B.Agric., M.Sc., (Ife)	Assistant Lecturer	Agric. Development and Policy

**(b) Technical Staff**

1.	A.O. Adedigba	HND (Ibadan)	Chief Agric. Superintendent
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**(c) Administrative Staff**

1.	E.O. Ayanbimpe	B.Ed (Accounting)	Principal Confidential Secretary I
3.	O.O. Afolabi	HND mass Communication	Senior Clerical Officer
4.	S.F. Olaniyi	WAEC	Secretarial Assistant II
2.	S.G. Adesiyon	Modern III	Chief Office Assistant

**1.2 Historical Notes**

**1.2.1 History of the University**

Obafemi Awolowo University (formerly, University of Ife), Ile-Ife is one of the three Universities established in Nigeria between 1961 and 1962 as a result of the report submitted to the Federal Government in September, 1960, by a Commission it appointed in April 1959 under the Chairmanship of Sir Eric Ashby, Master of Clare College, Cambridge, to survey the needs of post-secondary and higher education in Nigeria over the next twenty years.

The Government of Western Nigeria first announced in 1960 its intention to establish as soon as possible a University in Western Nigeria which would be of the highest standard. Its policy would be to open its doors to students from all parts of the Federation and of the World.

The planning of the Obafemi Awolowo University was entrusted to two Committees. The first being a University Planning Committee comprising persons qualified to advice on the planning of a new University, and who in effect undertook the preparatory work connected with the establishment of the University pending the setting up of the Provisional Council of the University. The second committee was the University Parliamentary Committee,

which was advisory to the Minister of Education. On 8th June, 1961 the Law providing for the establishment of the Provisional Council of the university was formally inaugurated under the Chairmanship of Chief Rotimi Williams.

On 11th June, 1970, an Edict known as the University of Ife Edict, 1970 was promulgated by the Government of the Western State to replace the Provisional Council Law of 8th June, 1961. This Edict has since been amended by the Obafemi Awolowo University, Ile-Ife (Amended) No. 11 of 1975 (Transitional Provisions) Decree No. 23 of 1975. The new Decree effected a takeover of the Obafemi Awolowo University by the Federal Military Government and established a Provisional Council interim governing body of the University which shall subject to the general direction of the Head of the Federal Government, control policies and finances of the University and manage its affairs. Governing Council has since replaced this Provisional Council.

The site selected for the University was at Ile-Ife, a town about 80 kilometres northeast of Ibadan in Oyo State (part of the old Western State). Ife is famous as the centre of an ancient civilization and home the Museum, which contains the renowned Ife heads. It was intended temporary buildings should be put up on the site to enable teaching to commence in October 1962 while the permanent buildings were being planned and erected. But when the Federal Government transferred Ibadan Branch of the Nigerian College of Arts, Science and Technology to the University, it was decided that it would be unnecessary to put up temporary buildings at Ife and the University was temporarily located on the site of Ibadan Branch of the Nigerian College. Teaching began in October 1962 with an initial enrolment of 244 students. The teaching, administrative and technical staff, either transferred from the Nigerian College or newly recruited from abroad numbered about eighty.

The University started with five Faculties - Agriculture, Arts, Economics and Social Studies (now Social Sciences), Law and

Science. Six new faculties have since been added, namely the Faculty of Education (established on 1st October, 1967), the Faculty of Pharmacy (established on 1st October, 1969), the Faculties of Technology and Health Sciences (now College of Health Sciences) (both established on 1st October, 1970) Faculty of Administration (which replaces the former Institute of Administration with effect from 1st October 1979) and Faculty of Environmental Design and Management (established on April 6, 1982).

In 1992, the University established a collegiate system with five Colleges. The system did not function effectively and was abandoned after two years. However, the Postgraduate College and the College of Health Sciences were retained. The College of Health Sciences now comprises of the Faculties of Basic Medical Sciences, Clinical Sciences and Dentistry. The Adeyemi College of Education located in Ondo and the Institute of Agricultural Research and Training in Ibadan were initially integral part of the University. Although the Adeyemi College was separated from the University in 1975, however, there is still a close relationship between the two institutions. The College offers degree programme of the University under a system that is closely monitored by the University. The Institute of Agricultural Research and Training, Ibadan with a branch at Akure in Ondo State, used to be fully superintended by the University in 1991. However, the Akure branch and the College of Animal Science of the Institute continued to report to the Federal Government through the Director of the institute. In terms of funding, the Institute of Agricultural Research and Training now relates to the Federal Ministry of Agriculture while the University still has administrative responsibility for the Research and Administrative staff of the Institution. The Director and the Secretary of the institute are responsible to the University through the Vice-Chancellor and Registrar respectively. The Vice-Chancellor is the Chairman of the Institute's Governing Board.

The following are Institutes and major units that exist in the University: The Natural History Museum

The Institute of Ecology and Environmental Studies  
The Centre for Gender and Social Policy Studies  
The Centre for Industrial Research and Development  
The Institute of Public Health  
The Institute of Cultural Studies  
The Physical Planning and Development Unit  
The Computer Centre  
The Drug Research and Production Unit  
The Equipment Maintenance and Development Centre  
The Central Technological Laboratory Workshop  
The Central Science Laboratory  
The Centre for Distance Learning

Finally, some other agencies over which the University has no direct, or, in some cases limited control, have premises within the University.

These include

The Regional Centre for Training in Aerospace Surveys  
The National Centre for Technology Management  
The Centre for Energy Research and Development  
The African Regional Centre for Space Science and Education in English. The student population rose steadily from 244 in 1962/63 to over 30,000 at the end of the 2013/2014.

## **1.2.2 Mission, Vision, Major Thrusts of the University**

### **MISSION**

To create a teaching and learning community for imparting appropriate skills and knowledge, behaviour and attitude; advance frontiers of knowledge that is relevant to national and global development; engender a sense of selfless public service; promote and nurture the African culture and tradition.

### **VISION**

The vision is to be a top rated University in Africa, ranked among best in the world, whose products occupy leadership position in the public and private sectors of the Nigerian and global economy, that has harnessed modern technology, social, economic financial

strategies, built strong partnerships and linkages within and outside Nigeria and whose research contributes a substantial proportion of innovations to the Nigerian economy.

### **Major Thrusts of the University**

1. To produce graduates of international standard, with appropriate knowledge and skills in their field of study, who will be highly employable and able to employ themselves.
2. To provide high quality research and development activities that will promote the development of the Nation and enhance the image of the University and the researchers.
3. To harness modern technology especially ICT and modern social, economic and financial strategies to run a cost of efficient and effective academic programme and institutional management.
4. To provide services that has relevance to and impact on the local community and the Nation.
5. To provide conditions of study, work and living in the University Community that is of appropriate standard.
6. To expand access to tertiary education in the face of unmet demand.
7. To operate as an equal opportunity educational institution, sensitive to the principle of gender equity and non-discriminatory on the basis of race, ethnicity, religion or physical disability.

### **1.2.3 History of the Faculty of Agriculture**

In the 1977/78 session, the Faculty offered a unified 4-year degree programme with one-year compulsory Internship designed to promote practical exposure to students. A subsequent revised programme resulting from recent national needs and global trends led to the award of undergraduate degrees (B. Agric.) by five Departments – Agricultural Economics, Agricultural Extension & Rural Sociology (now Agricultural Extension & Rural Development), Animal Science (now Animal Sciences), Plant Science (now Crop Production & Protection) and Soil Science



(now Soil Science and Land Resources Management) while the Department of Family, Nutrition and Consumer Sciences offers a 4-year undergraduate programme leading to B.Sc. Consumer Sciences. The teaching, research and extension facilities in the Departments are complemented by our field laboratory teaching, research and extension facilities in the OAU Teaching and Research (T&R) Farm. Our Faculty is also strongly affiliated with the Institute of Agricultural research and Training (IAR&T), Ibadan.

The programmes in the various Departments are equipped and tailored to meet the challenges of the new millennium, promote entrepreneurship in our graduates as well as extend the frontiers of knowledge in the various disciplines.

#### **1.2.4 The History of the Department of Agricultural Economics**

The Department of Agricultural Economics, Obafemi Awolowo University came into existence during the 1966/67 Academic Session as one of the five Department in the Faculty of Agriculture. The main objective of the Department is to train versatile students and build qualified manpower for the needs of Nigerian Agriculture and advance the frontiers of knowledge through Teaching, Research and provision of community services.

Today, the products of the Department occupy various positions of responsibility at both national and international levels. The Department maintains a network of feedback with its Past Students/Alumni and the reports from various employers both private and public have been very encouraging.

The average Students' population of the Department turns around 800 Students (Part I to Part V) per annum, non-inclusive of other Students in the Faculty. Most of the facilities in the Department have been upgraded to meet with modern teaching and research requirements. In the 4<sup>th</sup> year (Internship year), Students undergo intensive training on the Department's Section of the Teaching and Research Farm (T&RF), the Production Unit and other

sections of the T&RF including surrounding private agribusinesses that facilitate and ensure diversified Managerial and Entrepreneurial Skills Acquisition by Students.

The Teaching and Research Staff of the Department comprises both locally and internationally trained staff while some are Alumni of the Department engaged in Teaching and Research in various areas of Agricultural Economics. The Staff are in various Organizations, Research Networks and are Members of various Professional Bodies. The Staff strength of the Department is from various specialized areas of Agricultural Economics: Production Economics, Farm Management, Agricultural Finance, Agricultural Marketing, Agricultural Business Management, Agricultural Cooperatives, Agricultural/Environmental Resource Economics, Community Economics and Agricultural Development Planning and Policy.

In line with the University policy, the Department like other Departments in the Faculty practices the Course Unit System and the Staff-Student Advisory System. Students' Academic Performance is easily monitored through their Staff Part Advisers and Parents are also provided with timely information on their wards' performance. Parents are therefore enjoined to maximize the use of this medium to complement Departmental effort for the efficient running of the system

### **1.2.5 Mission, Vision, objectives of the Department**

The mission of the department is to train well-rounded graduates of Agricultural Economics who can occupy several niches and function as job creators and/or employees. The Department hopes to prepare graduates to meet the challenges of the new Millennium. To this end, the Department has a number of objectives. These are to

1. Expose students to the science and practice of Agricultural production and Management of Agricultural Business.

2. Train versatile graduates who can meet the challenges of self-employment as Farmers; and as employees of Public and Private Institutions/Establishment.
3. Produce graduates who are properly equipped to extend the frontiers of knowledge in the discipline of Agricultural economics.
4. Produce graduates who can respond to the varying challenges of day-to-day existence.

### **1.2.6 Members of the University**

The members of the University as defined on statute 2(1) are:

- (a) The Officers of the University;
- (b) The members of the Council;
- (c) The members of the Senate;
- (d) The members of the Academic Staff;
- (e) The Graduates;
- (f) The students; and such other persons as may be statues be granted the status of members.

A person shall remain a member of the University only as long as he is qualified for such members under any of the sub-paragraphs of paragraph (1) of this Statute.

### **1.2.7 Officers of the University**

- a. The Officers of the University as contained in Statute 3 shall be:
- b. The Chancellor;
- c. The Pro-Chancellor;
- d. The Vice-Chancellor;
- e. The Deputy Vice-Chancellor (Academic)
- f. The Deputy Vice-Chancellor (Administration)
- g. The Registrar;
- h. The Librarian;
- i. The Bursar; and

Such other persons as may by Statute be granted the status of officers.

## **1.2.8 Establishment of the University Council**

### **(a) Functions**

The University Council to be known as the Council of the Obafemi Awolowo University, Ile-Ife was established by the University of Ife Edict 1970. The Edict states that Council shall be the governing authority of the University and shall have the custody, control and disposition of all the property and finances of the University and, except as may otherwise be provided in the Edict and the Statutes, shall manage and superintend generally the affairs of the University and, in any matter concerning the University not provided for or under this Edict, the Council may act in such manner as appears to it best calculated to promote the interests, objects and purposes of the University.

The Council, subject to the provisions of the Edict and Statutes has the following functions among others:

- (i) to determine, in consultation with Senate, all University fees;
- (ii) to establish, after considering the recommendation of the Senate on that behalf, Faculties, Institutes, Schools. Boards, Departments and other units of learning and research; to prescribe their organization, constitution and functions and to modify or revise the same;
- (iii) to authorize, after considering the recommendations of the Senate in that behalf, the establishments for the academic in the University, and with approval of the Senate, to suspend or abolish any academic post except a post created by this Edict or the Statutes;
- (iv) to authorize the establishments for the administrative staff and other staff in the University and to suspend or abolish any such posts other than posts created by this Edict or the Statutes;
- (v) to make the appointments authorized by this Edict and the Statutes;
- (vi) to exercise powers of removal from office and other disciplinary control over the academic staff, the administrative staff and all other staff in the University;

- (vii) to supervise and control the residence and discipline of students of the University and to make arrangements for their health and general welfare.

**(b) Compositions of the Members of Council**

The Council as contained in Statute 10 (1) as amended by Decree No. 11 of 1993 and Decrees 25 of 1996 shall consist of the following members:

- (i) Ex-Officio Members:      Pro-Chancellor  
   Vice-Chancellor  
   The Deputy Vice-Chancellors
- (ii)    1 member from the Federal Ministry of Education
- (iii)   4 members appointed by National Council of Ministers
- (iv)    4 members of Senate appointed by Senate
- (v)    2 members of the Congregation elected by the Congregation
- (vi)    1 member of Graduates Association elected by Graduates Association

The Senate shall prescribe which Departments and subjects of study form part or be the responsibility of each of the Faculties. The next level organization is the Faculty where the teaching and other activities of Departments are co-coordinated. Proposals generally come from Departments to the Faculty Board although they can also be initiated at Faculty level in which Departments normally have an opportunity consider them before the Faculty Board takes a decision. The membership of the Faculty Board is stipulated in Statute 13(3) thus:

- (a)    The Vice – Chancellor;
- (b)    Deputy Vice-Chancellors;
- (c)    The Dean of the Faculty;
- (d)    The Professors and Heads of Departments comprising the Faculty;
- (e)    Such other full-time members of the academic staff of the Departments comprising the Faculty as the Senate may

- determine after considering the recommendation of the Faculty Board;
- (f) Such other Professors and other Heads of Departments, as the Senate may determine after considering the recommendation of the Faculty Board;
  - (g) Such other persons within or outside the university as the Senate may appoint after considering the recommendation of the Faculty Board.

### **1.3 Organizations, Administration and Control**

The Vice-Chancellor is the Chief Executive Officer of the University and five other Principal Officers of the University, namely; the Deputy Vice-Chancellors (2), the Registrar, the University Librarian and the Bursar report to him. The University Librarian is in charge of the University Library while the Bursar takes charge of the University finances. The Registrar is the Secretary to Council and the Chief Administrative Officer of the University and he assists the Vice-Chancellor in the day-to-day administration of the University. He is also the Secretary to Senate and heads the Registry, comprising the Directorate of Academic Affairs, the Directorate of Council Affairs, Division of Corporate Services and the Director of Personnel Affairs. The Planning, Budgeting, Monitoring Management Information System Unit takes care of the academic planning, budgeting and monitoring needs of the University and is un the Vice-Chancellor's Office.

The University Central Administration also includes some Units provide common services. They are the Medical and Health Services, the Division of Maintenance Services, the Physical Planning and Development U and the Computer Centre, Heads of these units report to the Vice Chancellor.

#### **1.3.1 Congregation**

The Congregation comprises all full-time members of the academic staff and every member of the administrative staff who holds a degree of recognized University. It discusses and declares an opinion on any mat whatsoever relating to the wellbeing of the

University. It has two elected members in Senate and two elected members in the University Council.

### **1.3.2 Information of Facilities**

#### **A. HEZEKIAH OLUWASANMI LIBRARY**

##### **(i) Plan of the Library**

The Library consists of the North and South wings, which are connected by walkways on two levels.

##### **(ii) Membership**

Membership of the Library is available, on completion of a registration card, to all students, members of the senior staff of the University and other persons as may be determined by the Library Committee or the University librarian on behalf of it.

Students are required to renew their registration at the beginning of academic year. Library Cards and Borrowers Tickets are not transfer books issued on them remain the responsibility of the person whose name appears on them.

A Lost Library Card or Borrower's Ticket may be replaced on submission of a written application.

##### **(iii) The Library Collection**

Hezekiah Oluwasanmi Library now contains over 380,000 volumes. It consists of two main areas:

- (a) The Undergraduate Areas and
- (b) The Research Areas.

#### **1. Serial Collection**

The Serials Collection consists of:

- (a) Current journals, the most current issues of which are shelved in the display section of the Serials Room.
- (b) Latest back files i.e. the latest 10 years of journals, which are on open access to registered senior staff and postgraduate students.

- (c) Older back files i.e. journals older than ten years, are on closed access to all categories of readers who must obtain and complete request forms at the serials hatch.

## **2. African Special Collection**

The African Special Collection is a collection of rare and other books of primary interest to people whose fields of interest are in African Studies. Staff publications and theses submitted for degrees of the University as well as of other Universities are also housed there. The Collection is closed access.

## **3. Documents Collection**

The Documents Collection includes official publications of the Federal Government of Nigeria, the old regional governments, the present state governments and the Federal Capital Territory. It also includes publications of other African governments and international organizations.

## **4. Reference Collection**

Dictionaries, encyclopaedia, handbooks, directories, atlases, University Calendars, etc. are shelved in the Reference Room. Bibliographies, indexes and abstracts are available in the Bibliography Room. Reference books do not ordinarily circulate. A newspaper clippings file (*post-October; 1985*) and a vertical file of reprints and other pamphlet type material is kept in the Reference Room.

## **5. Reserve Collection**

### **(i) Day reserve collection**

Multiple copies of textbooks, particularly some of those recommended for specific courses. are shelved in the Reserve Books Room on Floor 3 North Wing East.

### **(ii) Two Hour Reserve**

Some other materials, periodical articles in particular, are placed on 2-hour reserve. These may be obtained on



request (signature and seat number required) and retained for a period of two hours at a time, subject to renewal, provided other readers have not demanded the materials.

## 6. **Recent Acquisitions**

A selection of books added to the Library stock is normally displayed for several days before being put in the main collection. The books may not be borrowed while on display but may be reserved at the loans Desk.

## **CATALOGUES**

A library catalogue is a finding list of books and other materials available in the library. The following catalogues can be found in the Catalogue Hall:

- (i) The Author/Title Catalogue
- (ii) The Subject Catalogue
- (iii) The Shelf list
- (iv) The Serials Catalogue
- (v) The Documents Catalogue

## **How to Borrow a Book**

When you have found the book you want to borrow, you will be required to sign your name and address on the book card provided in duplicate. You must surrender a Borrower's Ticket for each book borrowed.

When you return a book, you must ensure that you receive your Borrower's Ticket back immediately.

## **Reservation**

**Filing a reservation slip can reserve a book;** in which case, it will not be renewed for the present borrower when returned, and, if it is already overdue, it will be recalled at once.

## **Inter- Library Loan**

If the book you require is not in stock, it is often possible to borrow it in another library. This service is dependent on goodwill

and cooperation between libraries, and readers who benefits from it are required to observed the regulations applying to each loan.

### **Photocopying Services**

Within the limitations imposed by copyright, the library is able to supply readers with photocopies of periodical articles and parts of boo moderate charges.

### **Penalties for Overdue or Lost Books**

Penalties for overdue books will be imposed as follows: -

- (a) ₦5.00 per day for the first 30 days; thereafter all loan privileges will stop.
- (b) Books specially recalled by the university Librarian would a fine of N10.00 per day after third day from the date of recall.
- (c) Books lost or damaged will attract a fine five times the current cost of the books.
- (d) No student will be allowed to attend the Graduation Ceremony receive his/her certificate without a clearance certificate for University Library to the effect that no book or fine is outstanding against him or her.

### **Library Opening and Closing Hours**

Monday - Friday	8.00 a.m. - 8.00 p.m.
Saturday	8.00 a.m. - 4.00 p.m.
Sunday	2.00 p.m. - 8.00 p.m.

### **Vacation Period**

Monday - Friday	8.00 a.m. - 6.00 p.m.
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## **B. Division of Students' Affairs.**

### **1. Guidance and Counselling Unit:**

The Division of Students' Affairs has Professional Counsellors who are committed to helping students grow in self-understanding in the process of integrating their personal and academic experiences. The services are free to students and are confidential (i.e. not used as part of his/her other University records). The services include personal counselling, group counselling, study

skills improvement, tests anxiety reduction, personal crisis intervention, psychological testing, career and occupational counselling and settlement of grievances between students. Where necessary, consultations are made with campus organizations, specialists and academic Departments, to ensure that students' problems are resolved satisfactorily.

The Counsellors can be contacted in Rooms 9 and 10 Division of Students' Affairs between 10.00 a.m. and 2.00 p.m. Monday to Friday.

## **2. Scholarships and Financial Assistance:**

The Division of Students' Affairs serves as a link between students and sponsoring authorities, both within and outside Nigeria. Students are advised to check the Notice Boards in their respective faculties as well as those at the Division of Student Affairs Building for advertisements and other relevant information. Liaison is also maintained between students and governments at various levels for scholarship and bursaries.

### **1.3.3 Rolls of Honours for Students**

Senate at a Special Meeting held on Wednesday, 1<sup>st</sup> November, 2006 decided that Roll of Honours for Students be instituted in the University to enhance discipline and good performance among students. All students are enjoined to strive to be on the Honours Roll.

#### **The details are as follows:**

- (i) The Honours Roll should be at three levels, namely:
  - (a) Departmental Honours Roll
  - (b) Provosts/Deans Honours Roll
  - (c) University/Vice-Chancellor's Honours Roll
  
- (ii) The beneficiaries must have a minimum CGPA of 4.0 for Departmental Honours Roll 4.25 for Provost/Deans honours Roll and 4.5 for Vice Chancellor/University Honours Roll in all the Faculties except the Faculty of

- Pharmacy and College of Health Sciences where the candidates are expected to have a cumulative average of 60% and 62% respectively.
- (iii) The beneficiary must maintain this grade annually to continue to enjoy the award.
  - (iv) The recommendations must be processed along with results of Rain Semester examinations.
  - (v) The student must be of good conduct.
  - (vi) He/she must not have outstanding or carry-over courses and must not be repeating the year.
  - (vii) No student on Leave of Absence shall enjoy the Annual Roll of Honours Award. All students are enjoined to strive to be on the Honours Roll. The details are as follows:
  - (viii) No student that has a disciplinary problem shall enjoy the award.
  - (ix) The award shall be based on the recommendation of the Departmental Board of Examiners and the Faculty Board of Examiners, while that pertaining to the Vice-Chancellor/University shall be processed through the Committee of Deans.
  - (x) Names of beneficiaries shall be displayed as follows;  
Departmental Honours Departmental Notice Board  
Provost/Deans Honours Faculty Notice Board  
Vice-Chancellor/University Honours - Floor '0' Secretariat Building.
  - (xi) Each beneficiary shall be given a certificate.

#### **1.4 University Examination Regulations**

Some University Examination Regulations students should note as contained in University Examination Regulations for first Degrees, Diplomas and Certificates are:

##### **1.4.1 Registration for University Examinations**

- (a) A candidate for a University examination must have registered the courses in the prescribed format not later than the closing date prescribed for registration for such

courses. Any candidate who fails to register for courses at the appropriate time as prescribed by Senate will not be allowed to take any examination in such courses. Any examination taken without course registration shall be null and void.

- (b) Students who register for courses are committed to the number of units registered for and are expected to take examinations in such courses. If a student failed to take an examination, he would be scored 'OF' for the number of units he had registered for and in which he had failed to take the prescribed examination.
- (c) Any student who does not have any course to offer in particular semester should apply for leave of absence.
- (d) A candidate who has less than 15 units in a particular semester to graduate should apply to his/her Faculty Board for permission to register for less than 15 Units, failure to do so constitutes a breach of regulation which may result in the non-processing of the candidate's results.
- (e) A candidate, who cannot register for courses during the prescribed period for registration because of an illness must ensure that medical report on his illness is forward by him or his parents/sponsors to reach the Dean of the Faculty not later than four weeks after the end of the normal registration period as scheduled in the University Calendar. Such a medical report should be forwarded for authentication by the Director of Medical and Health Services for it to be considered valid. Such a candidate shall be exempted from the penalties of late registration. All applications should be routed through the Head of Department.
- (f) Students must attend a minimum of 75% of course instructions including lectures, tutorials and practical where required to qualify to sit for examination in any course.

#### **1.4.2 Absence from Examination**

Candidates must present themselves at such University examinations for which they have registered. Candidates who fail

to do so for reason other than illness or accident shall be bound by the following regulations:

- (a) Any student who fails to register for courses during one semester without permission should be deemed to have scored “OF” in the minimum number of units required for full time students (i.e. 15 Units).
- (b) Candidates who registered for courses, attended classes regularly, did all practical and tests but did not take required semester examinations should be given a continuous assessment grade in each of the affected courses and a grade of “OF” in the examination which they should have taken, but which they did not take.
- (c) Candidates who have less than 15 units to graduate but fail to take the required examinations should be deemed to have scored “OF” in the outstanding courses only. Provided that such candidates obtained permission to register for less than 15 units.
- (d) Any candidate who on account of illness, is absent from a University examination may be permitted by the Senate on the recommendation from the appropriate Faculty Board, to present himself for such examination at the next available opportunity provided that:
  - (i) A full-time student in the University shall report any case of illness to the University Health Centre at all times.
  - (ii) When a student falls ill during examination he should report to the Director, Medical and Health Services before attending any hospital outside the University. A report of sickness should be the Registrar within a week and a certificate of validation of his illness with weeks.
  - (iii) When a student falls ill before an exam, the student shall be under an obligation to send a report countersigned by the Director, Medical Health Services

within one week of such Any time outside this period, shall be cot on its merit.

- (iv) The Director of Medical and Health should within 48 hours, submit a medical report of a candidate who is ill during an examination taken to the Health Centre or referred by hospital for treatment.
- (v) A candidate applying for leave of absence on medical grounds must forward his application together with a medical report to the Dean of Faculty through his Head of Department Director, Medical and Health Services countersign the Medical Report. The appropriate Faculty Board must take all applications for of Absence.

### **1.4.3 Examination Offences**

- (a) A candidate shall not be allowed during an examination to communicate by word or otherwise with any candidates nor shall he leave his place except with consent of an invigilator. Should a candidate act in a way as to disturb or inconvenience other candidate shall be warned and, if he persists he may, at the discretion of the invigilator be excluded from the examination. Such action by the invigilator must also be reported in writing through the Head of Department to the Vice-Chancellor within 24 hours.
- (b) It shall be an examination offence for any student, staff or any person whatsoever, to impersonate a candidate in any University examination. Any student or staff of the University found guilty under this regulation shall be subjected to disciplinary action by the appropriate authority of the University.
- (c) No candidate shall take into an examination room or have in his possession during examination any book or paper or printed or written documents, whether relevant to the examination or not, unless specifically authorized to do so. Any invigilator has authority to confiscate such documents.
- (d) Mobile phones are not allowed in examination halls.

- (e) A candidate shall not remove from an examination room any papers, used or unused, except the question paper and such book and papers, if any, as he is authorized to take into the examination room.
- (f) Candidates shall comply with all “direction to candidates” set out on an examination answer book or other examination materials supplied to them. They shall also comply with duration given to them by an Invigilator.
- (g) Candidates shall not write on any paper other than the examination answer books. All rough work must be done in the answer books and crossed out neatly. Supplementary answer books, even if they contain only rough work must be tied inside the main answer books.
- (h) When leaving the examination room, even if temporarily, a candidate shall not leave his written work on the desk but he shall hand it over to an invigilator. Candidates are responsible for the proper return of their written work.
- (i) Smoking shall not be permitted in examination room during examination sessions.
- (j) Any candidate or staff who attempts in any way unlawfully have or give pre-knowledge of an examination question or to influence the marking of scripts or the award of marks by the University examiner shall be subject disciplinary 'action by the appropriate authority in the University.
- (k) If any candidate is suspected of cheating, receiving assistance or assisting other candidates or of infringing other examination regulation, a written report of circumstance shall be submitted by the invigilator to the Vice-Chancellor within 24 hours of the examination session. The candidate concerned shall be allowed to continue with the examination.
- (l) Any candidate suspected of examination malpractice be required to submit to the invigilator a written report immediately after the paper. Failure to make a report shall be regarded as a breach of discipline. Such report should be forwarded along with the Invigilators report to the Vice-Chancellor.



- (m) Where a Head of Department fails to forward a repo examination malpractice to the Vice-Chancellor action would be considered misconduct.

#### **1.4.4 Penalties**

- (i) Any examination offences would attract appropriate penalty including outright dismissal from the university
- (ii) where the Vice-Chancellor has reason to believe that the nature of any paper may have become known before the date and time of the examination to any persons other than the examiners of the paper, the Board of Examiners, and any official of the University authorized- to handle the paper, he may order the suspension of the examination or the cancellation of the paper or setting of a new paper and shall report the matter to the Senate. The Vice-Chancellor shall also stake any disciplinary measure against any students involved as he may deem appropriate.
- (iii) If in the opinion of an invigilator, circumstances arise which render the examination unfair to any candidate he must report the matter to the Vice-Chancellor within 24 hours after the examination. Where such matter is reported to the Vice-Chancellor he may take such action as he deems fit. If he directs that another examination be held, that examination shall be the examination for the purpose of this regulation.
- (iv) Any candidate or member of staff may complain to the Vice- chancellor that an examination has been improperly conducted. The Vice-Chancellor shall investigate the complaint and report the result of his investigation to the Senate which shall take sue action as it may deem appropriate, including with-holding a result or deprivation of the award of a degree, diploma etc. as laid down in Status 17. However, where it is shown to the satisfaction of the Committee of Deans that any alteration or amendment of University regulation involving a change in a course of study or in examination requirements has caused hardship to a candidate in any examination, the committee of Deans

shall make sue provisions as it thinks fit for the relief of each hardship and report same to Senate.

## **1.5 The Course Unit System and the Computation of the Grade Point Average (G.P.A) as operated in Obafemi Awolowo University**

### **1.5.1 Introduction**

- (i) Each course shall be examined at the end of the course. The examination shall be conducted as prescribed by Senate.
- (ii) Each examination shall be 1-3 hours in duration. In addition, there may be a practical paper and/or an oral examination.
- (iii) There shall be continuous assessment of each course and this shall constitute a percentage of the final grade.

### **Measurement of Performance**

Performance in a course shall be measured in terms of:

- (i) the results of prescribed theory and practical examination
- (ii) continuous assessment which shall constitute 40% of measured performance
- (iii) assessment of such essay, practical exercises and reports prescribed for each course.

### **Level of Performance**

A candidate shall be recorded as having attained in a Course a level of achievement graded as follows:

A	=	Excellent	70%-100 %
B	=	Very Good	60 %-69 %
C	=	Good	50%-59%
D	=	Satisfactory	45 %-49 %
E	=	Adequate	40 %-44 %
F	=	Failure	0 %-39 %

### 1.5.2 Calculation of Grade Point Average (G.P.A)

The overall performance of each candidate during an entire semester shall be determined by means of a weighted grade point average, obtained by awarding credit points in respect of each course multiplied by the numerical value of the grade obtained as follows:

A	=	5 credit point per unit
B	=	4 credit point per unit
C	=	3 credit point per unit
D	=	2 credit point per unit
E	=	1 credit point per unit
F	=	0 credit point per unit

The grade point average is the total number of credit points divided by the total number of units for all courses taken during a particular semester

### 1.5.3 Definition of Terms

(i) **Student Workload:** This is defined in terms of course units. One unit represents one hour of lecture or one hour of Tutorial or 2-4 hours of practical work per week throughout a semester. Thus for example, courses with 2 hours of lectures and 1 hour of Tutorial per week is a 3 units course.

(ii) **Total Number of Units (TNU):** This is the total number of course units carried by a student in a particular semester is the summation of the load Units on all courses carried during the semester. For example, a student carrying 6 courses of 3 units each has a TNU of 18 for semester. No student shall be allowed to carry (i.e. register for) or be examined (in more than 24 units in any part I semester.

(iii) **Cumulative Number of Units (CNU):** This is summation of total number of units over all the semester from the beginning to date. A student who is prone to repeating courses will finish (if he does not drop out) with higher CNU than his non-repeating

colleague and most likely require a longer time to complete requirement for the award of Degrees.

(iv) **Level of Performance Rating:** This is the rating of grades obtained in terms of credit points per load unit. The rating used is as follows: Level of Performance Rating (Credit Points per Unit).

A	=	70% - 100%	-	5
B	=	60% - 69%	-	4
C	=	50% - 59%	-	3
D	=	45% - 49%	-	2
E	=	40% - 44%	-	1
F	=	0%-39%	-	0

Base on the above, a student who obtained a grade of “A” in a 4 – unit course has scored 20 credit points

(v) **Total Credit Points (TCP):** This is the sum of the products of the course units and rating in the entire semester period. For example, consider a student who took 4 courses of 5 units each. Let's say the grade obtained in the four courses were C.B.F.D, respectively. The TCP of this student is obtained as  $5 \times 3 + 5 \times 4 + 5 \times 2 = 45$ .

(Vi) **Cumulative Credit Point (CCP):** This is the summation of Total Credit Points over all semester from beginning to date.

(vii) **Grade Point Average (GPA):** This is the total credit points (TCP) divided by the total units (TNU). For example, consider the student's scores referred to above. His TCP is 45, and of course, his TNU is 20 (i.e. 4 courses at 5 units each, for the semester). The highest GPA that can be earned is 5.0 “A” in every course during the semester. The lowest GPA obtainable is 0.0 and this would happen if the student has “F” all round during the semester.

(viii) **Cumulative Grade Point Average (CGPA):** This is the summation of TCPs for all semester, divided by the summation of

TNU's for the said semester. Like the GPA. CGPA obtainable ranges from 0 – 5.

### 1.5.4 GPA and CGPA sample computations

#### (i) Sample computation

Consider a student who has enrolled in the department for a Bachelor of Agricultural degree programme in Agricultural Extension and rural development and has just completed two full semesters in the university. His course programme and his GPA and CGPA could be as follows:

Semester I							
1	2	3	4	5	6	7	8
Course Code	L	T	P	UNITS Credit	RESULTS GPA/CGPA points		
MTH105	4	1	0	4	78% (A) 5X5=25	GPA=55/18=3.06	
PHY 105	3	1	0	4	60% (B) 4X4=16	CCP=55+0=55	
PHY107	0	0	3	1	45% (D) 1X2=2	CNU=18+0=18	
CHM101	3	1	0	4	38% (F) 4X0=0	CGPA=55/18=3.06	
CHM103	0	0	3	1	27% (F) 3X0=0		
ZOO101	3	0	3	3	50% (C) 3X3=9		
ZOO103	3	0	0	1	50% (C) 1X3=9		
				18(TNU)	55(TCP)		

In this case the TCP, TNU and GPA will be the same for CCP, CNU and CGPA

Semester II							
1	2	3	4	5	6	7	8
Course Code	L	T	P	UNITS Credit	RESULTS GPA/CGPA points		
MTH106	4	0	0	4	66% (B) 4X4=16	GPA=51/18=2.83	
PHY 106	3	1	0	4	72% (A) 4X5=20	CCP=55+51=106	
PHY108	0	0	3	1	47% (D) 1X2=2	CNU=18+18=36	
CHM102	3	1	0	4	53% (C) 4X3=12	CGPA=106/36=2.94	
CHM104	0	0	3	1	42% (E) 1X1=1		
BOT102	3	0	3	3	20% (F) 3X0=0		
BOT104	3	0	3	1	35% (F) 1X0=0		
				18(TNU)	51(TCP)		

## **(II) Notes on sample computation**

It should be noted that although compulsory, relevant special electives are not computed in the process of determining CGPA.

### **1.6 MISCELLANEOUS NOTES ON THE COURSE UNIT SYSTEM**

i. **Withdrawal from the University:** A student whose CGPA falls below 1.0 at the end of a semester shall be placed on probation during the following semester, if he/she fails to achieve a CGPA of at least 1.0 at the end of that semester, he/she shall be required to withdraw from the University.

ii. **Final Assessment and Class of Degree:** A student who has satisfactorily completed all requirements for the degree with CGPA of not less than 1.50 may be awarded an Honours degree as follows:

<b>Class</b>	<b>CGPA</b>
First Class	4.50 and above
Second Class (Upper Division)	3.50 - 4.49
Second Class (Lower Division)	2.40 - 3.49
Third Class	1.50 - 2.39
Pass	1.00 - 1.49

Passes in 12 Units of Special Electives is a requirement for graduation.

A candidate who does not reach a CGPA of 1.50 but whose CGPA is not less than 1.00 at the end of the programme is awarded a pass degree (i.e. without Honours).

\*\*\*\*CGPA calculation is on all courses, but excluding Special Electives.

## **1.7 TRANSFERS WITHIN THE UNIVERSITY AND LENGTH OF STAY IN THE UNIVERSITY**

- (a) To qualify for a degree, a candidate will normally be required to spend a minimum of two academic years at the Obafemi Awolowo University.
- (b) If a student transfers from one Faculty to another, the transfer would be treated as if he/she is just being admitted into the University since as part of the requirement for graduation the student has to take all the foundation/compulsory courses in the new Faculty/Department. In that case his/her stay in the new Faculty/Department should be 1½ times the number of semesters required to complete a programme.
- (c) Where a student transfers from a science-based Faculty to another, the computation of his result in the new Faculty shall take cognizance of his previous CGPA in the new Department. The duration of their stay in the university will be what remains of the 1½ times the number of semesters required to complete the programme as approved by Senate.
- (d) Where a student is transferring from a science-based to a Humanities/Arts-based Faculty or vice-versa, the transfer should be treated as if the student is just being admitted into the University. The GPA of the student will not be transferred to the new Department. He/She will however be required to take all the foundation/compulsory courses in the new Department.

## **2.0 BACHELOR OF AGRICULTURE**

### **2.1 Objectives:**

The Philosophy of the Department is to train well-grounded graduates of Agricultural Economics who can occupy niches and function as job-creators and/or employees. The Department hopes to prepare graduates to meet the challenges of a dynamic economy in the current Millennium.

To this end, the Department has a number of objectives which are to:

1. expose students to the Science and Practice of Agricultural Production and Management of Agricultural Business,
2. train versatile graduates who can meet the challenges of self-employment as Farmers; and as employees of Public and Private Institutions/Establishments,
3. produce graduates who are properly equipped to extend the frontiers of knowledge in the discipline of Agricultural Economics,
4. produce graduates who can respond to the varying challenges of day-to-day existence in the changing economic, social, physical and policy environment

## **2.2 Degree Offered**

Bachelor of Agric (Agricultural Economics)

## **2.3 Entry Requirements**

### **UME Entry Requirements:**

Credit passes at GCE. 'O' Level or School Certificate or Senior Secondary School Certificate (S.S.S.C) in English Language, Mathematics and at least three other subjects which must include Chemistry, Biology or Agricultural Science and Economics.

### **UME Subjects:**

English Language, Biology or Agricultural Science, Chemistry and Physics or Mathematics

### **Direct Entry to Part One:**

Candidates with Ordinary National Diploma (OND) in Agriculture obtained at Upper Credit Level from this University or any other recognized institution of equivalent status may be considered for Direct Entry to Part II but they will not be exempted from the Internship year.



### **Direct Entry to Part Two:**

- i. Two “A” Level Passes in Chemistry and any of Biology, Agricultural Science, Zoology and Botany.
- ii. Candidates with Higher National Diploma in Agriculture obtained at Upper Credit Level from this University or any other recognized institution of equivalent status may be considered for Direct Entry to Part II provided they satisfy the ‘O’ Level requirements. They may also be exempted from the Internship year.

### **2.4 Requirement for the award of degree**

#### **Minimum Total Number of Units required for graduation:**

The minimum total number of units required for award of degree including 12 units of special electives is as follows:

By UTME = 211

By Direct Entry = 172

### **2.5 Graduation Requirements**

To qualify for the award of the Bachelor of Agric Degree in Agricultural Economics, students must pass a minimum of 211 course units for UME and 172 course units for Direct Entry part II. In addition, students must also pass 12 units of University Special Elective Courses.

#### **(a) Foundation programme**

Presented below are the major courses that undergraduate students in Agricultural Economics programme are expected to take to prepare them for their area of specialization. They are presented on the Table below

**Table 2.5: Course Structure of Foundation Courses at 100-Level**

<b>Course Code</b>	<b>Course Title</b>	<b>Harmattan L-T-P</b>	<b>Rain L-T-P</b>	<b>Total Units</b>
SER001	Use of English	2-0-0	2-0-0	4
MTH 105	Elementary Mathematics I	3-1-0	-	4
MTH 106	Elementary Mathematics II	-	3-1-0	4
PHY 105	Physics for Biological Science I	3-1-0	-	4
PHY 106	Physics for Biological Science II	-	3-1-0	4
PHY 107	Experimental Physics IA	0-0-3	-	1
PHY 108	Experimental Physics IB	-	0-0-3	1
CHM 101	Introductory Chemistry I	3-1-0	-	4
CHM 103	Introductory Chemistry II	-	0-0-3	4
CHM 102	Introductory Experimental Chemistry I	-	3-1-0	4
CHM 104	Introductory Experimental Chemistry II	-	0-0-3	1
BOT 102	Introductory Botany II	-	2-1-0	3
BOT 104	Experimental Botany II	-	0-0-3	1
ZOO 101	Introductory Zoology	2-1-0	-	3
ZOO 103	Experimental Zoology	0-0-3	-	1
Total Number of Units to be offered				40

(b). **Special Electives**

12 Units of Special Electives are to be selected outside the Faculty of Agriculture

<b>Special Electives</b>	<b>Units</b>
SEE001 Indigenous Education in Nigeria	
SEH001 Man and His Health	
SER001 Use of English	
SEA001 Government and Administration of the Public Sector	2
SEO001 Fundamentals of Human Behaviour I	
SEL001 Introduction to Law	
SEP001 Drugs and Society I	
SET002 Technology and Society	
SEE002 Education, Customs and Society Organisation	
SEH002 Community Health and Human Behaviour	
SER002 Humanity and the African Experience	
SEA002 Elements of Business Management	
SEO002 Fundamentals of Human Behaviour II	

(c) **Departmental Requirement**

Students must pass a minimum of 211 course units for UME and 172 course units for Direct Entry part II

(d). **Restricted Electives**

Electives are to be selected by the student from any of the following:

<u><b>Restricted Electives within the Faculty</b></u>	<b>Units</b>
AEC 510 Farm Management Information System	3
AEC 516 Environmental Resource Economics	3
AEC 518 Community Economic Analysis	3
AEC 520 Agricultural Cooperative	3
AEC 522 Agricultural Project Appraisal and Evaluation	3

## **MORAL RESPONSIBILITY**

1. A student shall be a good ambassador of the Department and the University at all times.
2. A student shall not misbehave or engage in any action or inaction that may bring the Department or University to disrepute.
3. Students shall comply with the University-established dress code for students. Students shall dress neatly, decently, modestly, respectfully and reasonably well, and avoid provocative/immoral/rough dressing.
4. Respect and courtesy are very important in any human relations. These shall manifest in their dealings with the University Staff (Academic and Non Academic) and their fellow students. Any student that displays unwarranted disrespect and lack of discipline shall be officially sanctioned.
5. Students shall channel their grievances/protests through established channels, rather than take the law into their hands. On no account must any student be engaged in physical fighting within the University or outside it.
6. Students shall abide by all laws, rules, regulations and conventions prevalent in the Department and the University at large.
7. Students shall not smoke or drink alcohol within the premises

## 2.6 OUTLINE OF PROGRAMME FOR PARTS I-V

### PART ONE

<b>Course Code</b>	<b>Course Title</b>	<b>Harmattan L-T-P</b>	<b>Rain L-T-P</b>	<b>Total Units</b>
SER001	Use of English	2-0-0	2-0-0	4
MTH 105	Elementary Mathematics I	3-1-0	-	4
MTH 106	Elementary Mathematics II	-	3-1-0	4
PHY 105	Physics for Biological Science I	3-1-0	-	4
PHY 106	Physics for Biological Science II	-	3-1-0	4
PHY 107	Experimental Physics IA	0-0-3	-	1
PHY 108	Experimental Physics IB	-	0-0-3	1
CHM 101	Introductory Chemistry I	3-1-0	-	4
CHM 103	Introductory Chemistry II	-	0-0-3	4
CHM 102	Introductory Experimental Chemistry I	-	3-1-0	4
CHM 104	Introductory Experimental Chemistry II	-	0-0-3	1
BOT 102	Introductory Botany II	-	2-1-0	3
BOT 104	Experimental Botany II	-	0-0-3	1
ZOO 101	Introductory Zoology	2-1-0	-	3
ZOO 103	Experimental Zoology	0-0-3	-	1
Total Number of Units to be offered				40

**Part II**

<b>Course Code</b>	<b>Course Title</b>	<b>Harmattan L-T-P</b>	<b>Rain L-T-P</b>	<b>Total Units</b>
SE Series	Special Electives (6 units max. per semester)	6-0-0	6-0-0	12
CSC 221	Computer Appreciation	2-0-0	-	2
CPP 201	Agricultural Botany	2-0-3	-	3
CPP 202	Principles of Plant Science	-	2-0-3	3
AEC 201	Introduction to Agric. Economics I	2-1-0	-	3
AEC 202	Introduction to Agric. Economics II	-	2-0-0	2
ANS 201	Anatomy and Physiology of Farm Animals	2-0-3	-	3
ANS 202	Introduction to Agric. Genetics	-	2-0-3	3
ANS 204	Agricultural Chemistry	-	2-0-3	3
ANS 208	Introduction to Fisheries and Wildlife	-	2-0-0	2
AXD 201	Introduction to Rural Sociology	2-1-0	-	3
AXD 202	Organization of Village Communities	-	2-1-0	3
SLM 201	Agricultural Chemistry II	2-0-3	-	3
SLM 202	Introduction to Soil Science	-	2-0-3	3
Total Number of Units to be offered				48

**Part III**

<b>Course code</b>	<b>Course Title</b>	<b>Harmattan L-T-P</b>	<b>Rain L-T-P</b>	<b>Total Units</b>
SE Series	Special Electives (6 units max. per semester)	6-0-0	6-0-0	12
CPP 301	Agronomy of Arable Crops and Agroclimatology	2-1-0	-	3
CPP 302	Agronomy of Permanent Crops and Agro forestry	-	2-1-0	3
CPP303	Introduction to Agricultural Entomology	2-0-3	-	3
CPP 304	Plant Pathology	-	2-0-3	3
AEC 301	Statistics and Biometrics	2-0-3	-	3
AEC 302	Introduction to Farm Management	-	2-0-3	3
AEC303	Principles of Agric. Economics I	2-1-0	-	3
AEC 304	Principles of Agric. Economics II	-	2-1-0	3
AGE 352	Agricultural Engineering I	2-0-3	-	3
ANS 301	Non-Ruminant Animal Production	2-0-0	-	2
ANS 302	Ruminant Animal Production	-	2-0-0	2
SLM 301	Introductory Pedology and Soil Physics	2-0-3	-	3
SLM 302	Soil Chemistry and Microbiology	-	2-0-3	3
AXD 301	Extension Teaching and Learning	2-0-0	-	2

	Process and Methods			
Total number of Units to be offered				51

#### Part IV

Course code	Course Title	Harmattan L-T-P	Rain L-T-P	Total Units
AEC 401	Farm Accounts and Budgeting	0-0-6	-	2
AEC 402	Farm Management	-	0-0-3	1
AEC 403	Fisheries Management	0-0-3	-	1
AEC 408	Report Writing in Agricultural Economics	-	0-0-3	1
AXD 401	On-Farm Demonstration	0-0-3	-	1
AXD 402	Extension Records	-	0-0-3	1
AXD 403	Training and Visit Extension	0-0-3	-	1
AXD 404	Teaching in Secondary School	0-0-3	-	1
AXD 405	Workshop Practices	0-0-3	-	1
AXD 408	Report Writing in Agricultural Extension	-	0-0-3	1
ANS 401	Livestock Feed production	0-0-3	-	1
ANS 402	Poultry Management Services	-	0-0-3	1
ANS 403	Beef Cattle management Practices	0-0-3	-	1
ANS 404	Sheep and Goats Management Practices	-	0-0-3	1



ANS 405	Rabbit Management Practices	0-0-3	-	1
ANS 406	Pig Management Practices	-	0-0-3	1
ANS 407	Processing of Animal Products	0-0-6	-	2
ANS 408	Report Writing in Animal Science	-	0-0-3	1
CPP 401	Processing and Storage of Plant Produce	0-0-3	-	1
CPP 402	Management of Tree Crops	-	0-0-3	1
CPP 403	Management of Arable Crops	0-0-3	-	1
CPP 404	Plant Propagation	-	0-0-6	2
CPP 405	Greenhouse Operations	0-0-3	-	1
CPP 406	Nursery Practices and Vegetable Production	-	0-0-3	1
CPP 407	Field Plot Technique	0-0-6	-	2
CPP 408	Report Writing in Plant science	-	0-0-1	1
SLM 401	Soil Fertility and Plant Nutrition	0-0-3	-	1
SLM 402	Land Use Planning (Pedology)	-	0-0-3	1
SLM 403	Soil and Water Management	0-0-3	-	1
SLM 408	Report Writing in Soil Science	-	0-0-3	1
AGE 401	Agricultural Surveying	0-0-6	-	2
AGE 402	Farm Mechanization Practices	-	0-0-6	2

AGE 408	Report Writing in Agricultural Engineering	-	0-0-3	1
AGR 400	Farm Practices	0-0-3	0-0-6	3
Total Number of Units to be offered				42

### Part V

Course code	Course Title	Harmattan L-T-P	Rain L-T-P	Total Units
AEC 501	Fundamentals of Econometrics	2-0-3	-	3
AEC 502	Land Economics	-	2-1-0	3
AEC 503	Mathematics for Agricultural Economists	2-1-0	-	3
AEC 504	Agricultural Economics Analysis II	-	2-1-0	3
AEC 505	Agricultural Development and Policy	2-1-0	-	3
AEC 506	Production Economics	-	2-1-0	3
AEC 507	Agricultural Finance	2-0-0	-	2
AEC 508	Agricultural Business Management	-	2-1-0	3
AEC 509	Research Method in Agricultural Economics I	1-0-0	-	1
AEC 510*	Farm Management Information System	-	2-1-0	3
AEC 511	Agricultural Economic Analysis I	2-0-0	-	2

	(Micro- Economics)			
AEC 512	Agricultural Marketing	-	2-1-0	2
AEC 513	Farm Management and Accounting	2-0-0	-	2
AEC 514**	Research Methods in Agricultural Economics (Research Project) II	-	0-0-6	2
AEC 515	Statistics for Agricultural Economists	2-0-3	-	3
AEC 516*	Environmental Resource Economics	-	2-1-0	3
AEC 518*	Community Economic Analysis	-	2-1-0	3
AEC 520*	Agricultural Cooperative	-	2-1-0	3
AEC 522*	Agricultural Project Appraisal and Evaluation	-	2-1-0	3
Total Number of Units to be offered				50

**\*Restricted Elective**

## **2.7 COURSE CONTENT**

**AEC 201 Introduction to Agricultural Economics I: 2-1-0 (3 units):** Introduction to Agricultural Economics Concept, Scope and Method, Price Theory and the Functions of the Market with particular reference to Agriculture, Theory of Agricultural Production, Cost Analysis with respect to Agricultural Production and, Theory of Distribution.

**AEC202 Introduction to Agricultural Economics II:2-0-0 (2 units):**

Concepts, Scope and Methods of Macro-economic Theory; Measurement of Economic Activities and National Income, Determination; Introduction to International Trade; fiscal and monetary policies as they affect Agriculture; Inflation and Rural Sector Economy, Public Finance and Agricultural Development; Comparative Analysis of the Agricultural and Non-agricultural Sectors.

**AEC301 Statistics and Biometrics: 2-0-3 (3 units):**

The nature of Statistics and Statistical Method; Methods of Data Collection; Sampling Techniques and Data Presentation; Measures of Descriptive Statistics, Inferential Statistics; Practical Application using Computer facilities and Packages; Regression Analysis, Analysis of Variance; Elementary Design of Experiments.

**AEC302 Introduction to Farm Management: 2-1-0 (3 units)**

Nature and scope of farm management, management functions in traditional Agriculture, organization of the farm set-up, farm records and accounting, farm business analysis, capital budgeting, farm and enterprise budgeting, farm decisions and long term investment, linear programming. Analysis of various food crops; reasons for interplanting; density of interplanted food crops; costs and returns in agroforestry. Evaluation of alternative technologies in Crop and livestock production.

**AEC303 Principles of Agricultural Economics I: 2-1-0**

**(3units):** Theories of production, Pricing of Factors of Production and Income distribution in Agriculture, Consumer behaviour and Price determination. Types of markets with emphasis in Agriculture, Wage determination; Determination of Prices; Inputs and Outputs Markets in Agriculture.

### **AEC304 Principles of Agricultural Economics II: 2-1-0 (3 units)**

Theory of Investment, Expenditure and income determination; with emphasis on the impacts of the product, money and employment markets, and Government Fiscal activities and Income Determination, Inflation, Unemployment, Monetary Sector and macroeconomic policies as they affect agriculture.

### **AEC401: Farm Accounting and Budgeting: 0-0-6(2units)**

The practical aspect of this course is based on the theory taught to student in AEC 302. These include; Record keeping; enterprise budgeting; preparation of final farm account; marketing of farm products; preparation of feasibility reports; types of data and data bankmanagement. The objective is to develop students' financial and accounting skills and in collecting and analyzing farm business data.

Research projects and other farms visited will serve as practical case studies.

### **AEC402: Farm Business Management 0-0-3 (1unit)**

The practical activities of this course hinge on the theory taught to students in the AEC302 classroom. These include the economics of sole-cropping; economic analysis of mixed cropping; orchard management; resource availability and use; storage, marketing and processing of farm products.

### **AEC403: Fisheries Management 0-0-3 (1unit)**

The practical content of AEC403 is based on the theory taught in ANS 208 classroom. These include; Fish pond location construction and management; fish pond maintenance; sourcing of fish production inputs; feeding management; fish pond harvesting; fish output processing and marketing; data collection; fish pond feasibility report, and case studies.

### **AEC408: Report Writing in Agricultural Economics 0-0-3 (1unit)**

The course introduces students to the practice of report writing with examples of different reports in Agricultural Economics being analysed as case studies. It also seeks to help students gain a better

understanding of the concept of leaders, leadership, and the change management process.

**AEC501 Fundamentals of Econometrics:2-0-3(3units):**

Definition and Scope of Econometrics; Methodology of Econometrics; Simple linear regression; violation of basic assumptions of the classical normal linear regression model, estimation with bad or deficient data, multiple regression; statistical demand analysis; statistical production and cost analyses; Simultaneous equation models, time series, econometrics multiple linear regression.

**AEC502 Land Economics:2-1-0(3units):**

Study of Man and Land: Economic Principles relevant to Land Economics; Population pressure and the demand for land; Control of land use, spatial and location concepts of urban land, etc. Land tenure systems and ownership of property rights, Land reforms: economic returns to land resources, real estate taxation of landed property, land development, conservation of land, institutional factors in land use; property rights in land resources; introduction to real estate finance and real estate market.

**AEC503 Mathematics for Agricultural Economists: 2-1-0 (3 units)**

Revision of basical algebraic manipulations, solution of simultaneous, quadratic and cubic equations including production, cost and utility functions; sets and sample spaces. Functions. Differentiation and Derivatives, techniques of maximization and minimization, integration and difference equations. Series and Progressions. Elements of Matrix Algebra and economic applications e.g.in national income models. Solving systems of equations and comparative statistics.

**AEC504 Agricultural Economic AnalysisII:2-1-0(3units):**

Consumption, saving and the theory of income determination; the general equilibrium level of employment, the Price level and the theory of interest, inflation and deflation, Macro-economic

policies: Monetary and fiscal.

**AEC505 Agricultural Development and Policy: 2-1-0 (3units):**

Objectives of Economic Development; Theories and Models of Economic Development; Agriculture's contributions to Economic Development; Appropriate Technology in Agriculture; Economic Institutions; Population Pressure; Consumption, Savings and Capital Formation, Agricultural Policy environments. Case Studies in Agriculture.

**AEC506 Production Economics: 2-1-0 (3units)**

Nature and Scope of Production Economics; Production, Functions, Location of Agricultural Production; the physical environment of agricultural production; Production relation; Factor-Product, Factor-Factor and Product-Product; Various goals of Production; Types of Production Organization; Risk and Uncertainty in Production; Production Technological change, Production Cost functions- Measurements, allocations, Structure and Empirical cost function, Linear Programming (Graphical, Vector and Simplex methods).

**AEC507 Agricultural Finance: 2-0-0 (2units)**

Principles of Agricultural Finance, types of credit extended to Agriculture; the basis of interest rates; sources of loanable funds and collateral security for loans; specialized institutions for the extension of Agricultural Credit in Nigeria including Cooperative Loan and Thrift Societies; Financial Management Concepts for managing growth, leverage, liquidity, risk and capital investment in Agricultural businesses; Financial records in Agricultural enterprises, Trial balance extraction; cashbook analyses, Preparation of final account of agro-enterprises (Merchandising and manufacturing types), and agro-enterprises of different ownership forms (Sole, partnership and corporation). Analysis of final account (Income statement and balance sheet)

**AEC508 Agricultural Business Management: 2-1-0 (3units):**

The Scope of Agricultural Business and Management. Types of

Agricultural Business Management and Organizations. Management, Accounting, Production Planning; Public Policies affecting growth of Agricultural Business; organization of large-scale Farms; Legal Organization and Tax strategies. Economics of Agricultural Processing and Marketing Management. Financial Control, Case Studies of Agricultural Businesses in Nigeria.

**AEC509 Research Method in Agricultural EconomicsI:1-0-0 (1unit)**

Introduction to Scientific Methods, defining a Research problem; Developing hypotheses and objectives; Research design, measurement and data collection; Statistical Analysis of data, Data presentation and report writing.

**AEC510FarmManagementInformationSystem:2-1-0(3units)**

System concept of Farm Operations; Farming systems, Nature of Agricultural data, Information and communications, farm management functions and levels; information technology, Farm planning and decision making; Importance of information to efficient management, Communications Services, terminology and theory, strategic management of the farm.

**AEC511 Agricultural Economic AnalysisI:2-0-0 (2 units):**

The theory of Consumer behaviour; Price theory and Resource allocation; Analysis of Market structure; Market equilibrium analyses (partial & general) for outputs, inputs and prices; Welfare economics.

**AEC512AgriculturalMarketing:2-0--0(2units)**

The role of marketing in Agricultural Development; Marketing functions, channels and costs; the nature of competition in Agricultural marketing; Cooperative marketing of Agricultural products; the process of analyzing Marketing problems; Agricultural demand and Price analysis; Marketing research, techniques for evaluating marketing efficiency. Domestic marketing of Agricultural commodities; International Trade in Agricultural commodities.



**AEC513 Farm Management and Accounting: 2-0-0 (2 units):**

The decision-making process in Farm management. Organisation of resources, organisation of enterprises. Principles and Procedures in planning enterprise combinations. Budgeting and Programme Planning. Cash flow budget and its uses. Break-even analysis. Measurement of Resource Productivity. Principles of Labour management and Wage administration. Farm decisions and long-term investment. Linear Programming. Farm Records and Accounts.

**AEC514 Research Methods in Agricultural Economics II (Research Project): 0-0-6 (2 units)**

Steps in the research process and their application, evaluation and treatment of economic data in Agriculture. Methods of sample survey design, questionnaire design and administration. Techniques of data analysis including multiple regression and techniques of research report writing.

**AEC515 Statistics for Agricultural Economists: 2-0-3 (3 units):**

Statistical analysis as a scientific method. The role of statistics in Agricultural Planning. Sample design in Agricultural Economic Research; Agricultural Price Analysis: Price determination (theory and practice); Price variation through time; Empirical Price Analysis; Index numbers (types and methods of construction). Time-series analysis: Secular Trend, Seasonal variations, Cyclical and irregular fluctuations; Application to Agricultural Economic problems. Demography and Demographic data analysis, Social Accounts and the Measurement of National Income, Real Domestic Products and Indexes of Production. Quality Control (Statistical Control of quality).

**AEC516 Environmental Resource Economics: 2-1-0 (3 units)**

Macroeconomic principles underlying the use of natural resources such as air, water, forest, fisheries, minerals and energy. These principles are applied in the examination of pollution control,

preservation versus development, deforestation and other environmental issues.

**AEC518 Community Economic Analysis: 2-1-0 (3 units)**

Economic theories (location and growth) application to community economic development; the role of Private and Public sectors in Local Economic Development and, Techniques for economic analysis of community.

**AEC520 Agricultural Cooperative: 2-1-0 (3 units)**

Cooperative Principles and Doctrine; Production Systems in Cooperatives; Agricultural Marketing Organizations; Cooperative Multipurpose System; Management, Accounting of Cooperatives, Cooperative Law, Regulations and Constitution, Education and Training in the Cooperative Movement.

**AEC 522 Agricultural Project Appraisal and Evaluation: 2-1-0 (3 units):**

Characteristics of Agricultural Projects. The project cycle Theory, procedures and data requirements for feasibility reports, Appraisal and evaluation of Agricultural projects and programmes; measures of investment worth, Cost-benefit analysis, Cash flow procedure and farm evaluation, Case-studies in Agricultural Project Appraisal and Evaluation.

**2.8 PRIZES IN THE DEPARTMENT**

- i. Professor Hezekiah Adedunmola Oluwasanmi for the Best overall performance with the highest CGPA in the Bachelor of Agriculture Degree Agricultural Economics.
- ii. Professor Caleb Osuntogun Prize for the Best overall performance with the highest CGPA in the Bachelor of Agriculture Degree Agricultural Economics.
- iii. Professor Banwo Olufokunbi prize for the student who scores the highest mark in Economics in the Department of Agricultural Economics

- iv. Professor Yakubu Layiwola Fabiyi Prize for the student who scores the highest mark in Agricultural Development and Policy
- v. Professor Kenneth Herald Parson Prize for the best student who made a minimum of second class honor (upper Division) and Scored the highest mark in Land Economics Course.

**OBAFEMI AWOLOWO UNIVERSITY  
ILE-IFE**



**FACULTY OF AGRICULTURE  
DEPARTMENT OF AGRICULTURAL  
ECONOMICS**

**POSTGRADUATE**

**IN AGRICULTURAL ECONOMICS DEGREE  
PROGRAMMES  
2019**

## **3.0 POSTGRADUATE PROGRAMME**

### **3.1 INTRODUCTION**

The Department of Agricultural Economics started offering postgraduate courses in the 1969/70 Academic year. To this end, it has developed a core of highly experienced personnel.

In the different special areas of the discipline.

The Philosophy of the postgraduate Programmes in Agricultural Economics is to develop highly skilled manpower for the agricultural and other sectors of the economy. The programmes will equally produce competent social scientists and researchers for universities and Research Centres as well as the public and private sectors. Such manpower will be imbued with competence to compete globally and to act as change agents within the Nigerian economy.

Graduate study in Agricultural Economics is intended to enable participants to qualify as professional workers in Agricultural Economics through intensive study of theory, analysis, and methodology in relation to the problems of economic organization and development of agriculture. Each student is required to choose a special field of concentration.

### **3.2 Degree Awarded**

In response to the changing needs, in terms of agricultural demand services of our constantly changing society; the Department offers three degrees the M.Sc., M. Phil and the Ph.D. Programmes.

The time-period of each degree is as follows:

- (i) A minimum of four semesters for M.Sc., and M.phil. degrees in Agricultural Economics based on course work plus thesis.
- (ii) A minimum of 6 semesters for Ph.D. degree in Agricultural Economics based on course work with a Ph.D. thesis based on an intensive independent research after the Master's degree

### 3.3 General Requirement

#### M.Sc.

Candidates seeking admission for the Master of Science must have any of the following qualifications from recognized institutions.

- [a] Bachelors degree in agriculture or related discipline with a minimum of second class lower division from the Obafemi Awolowo University or any other approved University.
- [b] HND Upper Credit plus PGD at Distinction in addition to satisfying University matriculation requirements.

#### M.Phil.

Candidates seeking admission for the Master of Science must have any of the following qualifications

- [a] Bachelors degree in AEC or related discipline with a minimum of Second Class Lower Division.
- [b] M. Sc. In Agricultural Economics with not less than 60% weighted Average.

#### Ph.D.

An applicant for admission to the Ph. D degree programme in the Department shall be:

A graduate of the Obafemi Awolowo University or any other approved University who possess a Master's degree M. Phil. research thesis and a weighted course work average which shall normally not be less than 60% (B+).

### 3.4 General Departmental Requirements

The programme consists of course work, project work and seminars or special topics. To be awarded the Master of Science Degree and Master of Philosophy in Agricultural Economics, a candidate must have fulfilled the following conditions

**Courses Required for M.Sc. and M.Phil. Agric Economics are as follows:**

<b>Core Courses</b>	<b>Units</b>
Micro Economics Analysis	3
Macro-Economic Analysis	3
Introduction to Quantitative Research Techniques	3

Computer Applications in Social Sciences for  
Agriculture 3

**Elective Courses**

Production Economics 3  
Farm Management 3  
Agricultural Finance 3  
Agricultural Marketing Analysis 3

[b] **Area of Specialization**

Production Economics and farm management 3  
Agricultural Marketing and Cooperative 3  
Agricultural Finance 3  
Resource and Environmental Economics 3  
Agribusiness 3

[c] Passed a minimum of 36 and 39 Credit Units for M.Sc. and  
M.Phil., respectively

[d] Carried out a research relevant to the area of specialization  
and submitted an acceptable thesis/dissertation.

**Ph.D.**

The programme consists of course work, project work and seminars or special topics. To be awarded Doctor of Philosophy degree in Agricultural Economics, a candidates must have fulfilled the following conditions:

(a) Passed a minimum of 48 credit units of which not more than 21 may be transferred from Master or M.Phil. Programme

**Areas of Specialization include:**

- (i) Production Economics and Farm Management
- (ii) Agricultural Marketing and Cooperative
- (iii) Agricultural Marketing and Cooperative
- (iv) Agricultural Finance
- (v) Resources and Environmental Economics

(vi) Agribusiness.

### 3.5 COURSE WORK

M.Sc. Degree Compulsory Courses:

<b>Harmattan Semester</b>			
<b>Course No.</b>	<b>Course Title</b>	<b>LTP</b>	<b>Units</b>
*AEC 601	Micro-Economic Theory And Agricultural Analysis	300	3
*AEC 603	Advanced Mathematics for Agricultural Economics	300	3
*AEC 609	Advanced Statistics	300	3
*AEC 621	Research Methodology	300	3

#### **Rain Semester:**

<b>Course No.</b>	<b>Course Title</b>	<b>LTP</b>	<b>Units</b>
*AEC 602	Macro-Economic Theory and Agricultural Analysis	300	3
*AEC 604	Computer Application in Social Sciences in Agriculture	102	3
*AEC 612	Econometrics	300	3
*AEC 600	Seminar	003	2
*AEC 618	Agricultural Development and Policy.	300	3



## **Harmattan Semester**

<b>Course No.</b>	<b>Course Title</b>	<b>LTP</b>	<b>Units</b>
AEC 605	Advanced Agricultural Production Economics	300	3
AEC 607	Advanced Agricultural Marketing	300	3
AEC 611	Advanced Agricultural Business Management	300	3
AEC 613	Agricultural planning I	300	3
AEC 615	Advanced Project Appraisal and Evaluation	300	3
AEC 617	Advanced Agricultural Budgeting	300	3
AEC 619	Advanced Agricultural Demand Analysis	300	3
AEC 625	Agricultural Price Analysis	300	3

## **Rain Semester**

<b>Course No.</b>	<b>Course Title</b>	<b>LTP</b>	<b>Units</b>
AEC 606	Advanced Agricultural Resources Economics	300	3
AEC 608	Advanced Agricultural Cooperatives	300	3
AEC 610	Advanced Land Economics	300	3
AEC 614	Advanced Farm Management	300	3
AEC 616	Advanced Agricultural Finance	300	3
AEC 620	Agricultural Planning II	300	3
AEC 622	Operations Research Methods	300	3
AEC 624	Agricultural Insurance	300	3
AEC 626	Agricultural Policy Analysis	300	3

- Total Unit of Electives required for M.Sc. Degree = 6 units

- Total Unit of Electives required for M.Phil. = 9 units
- Total unit of Electives required for Ph.D. Degree 12 Units

### 3.6 Examinations

#### M.Sc.

Passed a minimum of 36 Credit units

#### M.Phil.

Passed a minimum of 39 Credit units

#### Ph.D.

Passed a minimum of 48 credit units of which not more than 21 may be transferred from Master or M.Phil. Programme

### 3.7 Staff for graduate programme

	NAMES	QUALIFICATION	STATUS
1.	T. Alimi	B.Sc. (Ife), M.B.A. (Lagos), Ph.D. (Ife)	Professor
2.	E.O. Idowu	B.Sc., M.sc. Ph.D. (Ife)	Professor
3.	A.B. Ayanwale	B.Agric., M.Phil., Ph.D(Ife)	Professor
4.	A.S. Bamire	B.Agric., M.Phil., Ph.D(Ife)	Professor
5.	A.A. Tijani	B.Agric., M.Phil., Ph.D(Ife)	Professor
6.	O. Oluwasola	B.Agric., M.Sc., Ph.D(Ife)	Reader
7.	J.T.O. Oke	B.Agric., M.Sc. (Ibadan), Ph.D(Ife)	Reader
8.	A. A. Akinola	B.Agric., M.Sc., Ph.D(Ife)	Reader

9	I.O. Baruwa	B.Agric., M.Sc., Ph.D(Ife)	Reader
10.	O.A.Yesufu(Mrs)	B.Agric., M.Sc., Ph.D(Ife)	Senior Lecturer
10.	R. Kassali	B.Agric. (Niamey), M.Sc., Ph.D(Abidjan)	Senior Lecturer
9.	A.T. Adesiyon	B.Agric., M.Sc., Ph.D(Ife)	Senior Lecturer
10.	O.F. Adesiyon	B.Agric., M.Sc., Ph.D(Ife)	Senior Lecturer
11.	V.A. Tanimonure	B.Agric., M.Sc., Ph.D(Ife)	Lecturer I
12.	A. S. Ogunleye	B.Agric., M.Sc., Ph.D(Ife)	Lecturer I
13.	A.O Adelekun	B.Agric., M.Sc., Ph.D(Ife)	Lecturer I
14.	A.D. Kehinde	B.Tech. (Ogbomosho), M.Sc., Ph.D (Ife)	Lecturer I

## **3.8 COURSE SYLLABUS**

### **Description of Postgraduate Courses (with special application to Agriculture)**

#### **AEC601 Microeconomic Theory and Agricultural Analysis**

Review of consumer theory; Utility maximization; Demand and Elasticity; Income and Substitution Effects; Theory of revealed Preference and its applications; Theory of the firm; The problem of choice in situations involving risk; Consumption efficiency and gains from exchange; Market Analysis; Limits of the Market (Externalities and Public Goods).

#### **AEC602 Macroeconomic Theory and Agricultural Analysis**

Review of macroeconomics and Keynesian Economics; IS-LM model, extension and Microeconomic foundations of macroeconomics; Open macroeconomic theory; Consumption, Savings, Investment Theories, and applications; Growth models & SAM, Business cycle theories and application to agriculture; Labour market, inflation and unemployment.

#### **AEC603-Advanced Mathematics for Agricultural Economics**

The nature of mathematical economics, variables, numbers, functions, relations and graphs. The concepts of set, rules of differentiation, differentials, integration. Linear models and matrix Algebra. Partial market equilibrium, comparative static analysis, optimization problems, logarithms.

#### **AEC604 Computer Applications in Social Sciences for Agriculture**

Introduction to various programmes in computer, the use of computer to solve farm problems, statistical analysis with the computer, farm budget, linear programming- Practical application of computer packages to solve agricultural economic problems.

### **AEC605 Advanced Agricultural Production Economics**

Theory and Methods in Agricultural Production Economics, static production theory and relevant empirical studies, single and multiple product production functions; cost studies in the context of scale and size economics; dynamic production theory- poly-period production; national agricultural production and the use of input-output models; production and investment analyses, supply functions and responses.

### **AEC606 Advanced Agricultural Resource Economics**

Economic analysis of natural resources including availability, exploitation, pricing evaluation, conservation and management, with particular reference to those relating to agriculture such as energy both urban and rural, land resources, water resources including irrigation, transportation, fishery, watershed and community based resources such as grazing land, game reserve, forest resources and environmental management for urban and rural recreation, capitalization and optimal replacement models for renewable resources.

### **AEC 607 Advanced Agricultural Marketing**

Marketing-Scope, concept and meaning. Agricultural marketing in the context of national economic development. Supply and demand aspects of agricultural products. Marketing margins and marketing channels in food products, market integration analysis. Market structure and institutions; consumer behavior, multivariate analysis in marketing; market information and support systems, international trade in agricultural products, agricultural price analysis; pricing decisions and policy, advertising and promotions; marketing programme and control, strategic marketing, spatial equilibrium and transportation models.

### **AEC608 Advanced Agricultural Cooperatives**

Evaluation of cooperation; Cooperative theory, doctrine and principles; Structure and types of modern cooperatives; Member interest, Goal and participation in Cooperatives. Concepts and policies for the promotion of cooperatives. Management and

cooperatives. Cooperative financing; Trends in Cooperative Law.

### **AEC609 Advanced Statistics**

Sets and events. Probability and Probability distribution, methods of estimations, moments and moment generating function, sampling, hypothesis testing. Statistical analysis. Analysis of variance, correlation and regression, stochastic process.

### **AEC610 Advanced Land Economics**

Land as an economic concept, land ownership and decision making, economic, social and institutional factors of land use and land development. Land values and location, factors affecting land use intensity. The distinction between social and private costs and benefits. Land Taxation. The compensation-betterment problem in relation to finance and planning. Land policy and Land Use Control System.

### **AEC611 Advanced Agricultural Business Management**

General nature of management. The Development of Management thought. The nature and scope of Agribusiness management. Theory of the firm, production management plant location analysis, layout planning and material handling. Purchasing and inventory. Production planning and control. Quality control, marketing management pricing and marketing analysis, distributing channels, consumer analysis, promotion, marketing, planning and control. Government regulations, services and public policy, case studies.

### **AEC612 Elements of Econometrics**

Definition and scope of econometrics; Review of concepts of Econometrics; Problems in modelling, specification and estimation, and their solutions; Qualitative and Limited Dependent Variable Models; Simultaneous Equation Models; Impact analysis methods.

### **AEC613 Agricultural Planning I Introduction**

History of Agricultural planning in Nigeria from colonial times to

the present, including main features and achievements of planned targets. The scope of agriculture in relation to planning and its division into sectors and subsectors. Information in the context of agricultural planning in Nigeria.

### **Methodology of Agricultural Planning**

Principal steps in programme formulation: Formulation of objectives and preliminary targets, research, formulation of development policies and measures, formulation of investment schemes and projects, programming; implementation, evaluation. Survey and Statistics for Agricultural Planning: Comprehensive social surveys, sample surveys, the role of statistics, Statistics for food consumption and nutrition, for agricultural experimentation, for forestry and forest products, for external trade, the use of electronic computers. Projections of Demand and Supply of agricultural commodities: Methodology of projections in agriculture; projections of demand for forests products and supply of agricultural commodities, prediction of yields, appraisal of water, fishery and forest resources. Technical Measures for Agricultural Development: The supply of fertilizers, pesticides and planting materials, improvements in animal production, agricultural equipment, forestry and forestry industries, technical measures for forestry and fishery development.

### **AEC614 Advanced Farm Management**

Review of Principles; The scope of Farm Management; Application of Production Economics to Farm Management; Application of Principles or Theories explaining Farmers' behaviour; Analysis of Agricultural production structures; The role of information management; Farm management decision making models; Case studies.

### **AEC615 Advanced Project Appraisal and Evaluation**

Definition and classification of projects and project evaluation; concept of investment project evaluation; stages and forms of project formulation and evaluation; evaluation from the standpoints of private enterprise and national economy, inter-

relationships among projects; project evaluation and macro planning; accounting prices and shadow prices; alternative method so evaluating agric projects; valuation of tree crops and other items off arm durable assets. Treatment of environmental accounting.

### **AEC616 Advanced Agricultural Finance**

Nature and scope of financial management. Analytical tools for financial management. The income statements, the balance sheet and the cash-flow statement, flow of fund analysis. Growth of the farm firm, Financial leverage. Compounding, discounting and capital budgeting, Cost of capital. Financial analysis and control. Financial markets and agricultural lending agencies. Formulation and appraisal of projects in agriculture. Case studies; structure of investment and capital formation in agriculture, financial intermediaries and the financing of Nigerian Agriculture, pattern of budgetary decision of Nigerian farmers. International financial institutions (government and non-governmental).

### **AEC617-Advanced Agricultural Budgeting**

Static Budgeting: Budget for planning and control, complete and partial budgeting, the evaluation of alternative plans, the specification of alternative plans, monitoring performance for control, parametric and break-even budgeting; the costing and selection of farm durable capital; data collection for budgeting, cash flow budget. Intertemporal Budgeting: Evaluation of intertemporal cropping alternatives; borrowing and its cost; borrowing and the discounted cash-flow technique; evaluation of alternatives using other techniques, discounting and evaluation of durable inputs, choice of planning period, there placement of durable inputs. Probabilistic Budgeting: the estimation of probabilities, the estimation of utilities, mean variance analysis, intertemporal budgeting and non- certainty.

### **AEC618 Agricultural Development and Policy**

Barriers to change economic, sociological and political. The role of agriculture in the world economy. System of traditional agriculture.



Theoretical models of agricultural development. Constraints to development. Approaches to development. Project Appraisal. Techniques of economic analysis for agricultural development. National and agricultural planning. Agricultural policy.

### **AEC619-Advanced Agricultural Demand Analysis**

The nature of demand for agricultural commodities; logical and theoretical basis of demand theory; consumers and market demand for farm products, speculative demand, lengths in run in demand theory, derived demand, dynamics of demand analysis, techniques of market research, statistical demand analysis including use of cross section samples, time series data and pooling of both data, world demand prospects for Nigerian major agricultural exports.

### **AEC620 Agricultural Planning II**

Agrarian reform in agricultural development, transition to market, market agriculture, improvements to transport, storage and marketing, price stabilization, agricultural insurance, agricultural taxation. Organization measures: Organization for programme formulation; administration, organization, the role of public corporation, organization of agricultural research; planning for the nutritional needs of children. Case studies in selected aspects of agricultural planning: Perspectives, medium term, annual planning; centralized planning, decentralized planning, regional planning; package programmes. International Problems of Agricultural Planning: Prospects for international trade in agricultural products; capital aid and technical assistance; international food aid.

### **AEC621 Research Methodology**

Steps in the research process and their application, evaluation and treatment of economic data in agriculture with emphasis on methods of analysis and relations among variables; methods of sample survey design, questionnaire design and administration; probabilistic and non-probabilistic sampling techniques. Techniques of data analysis including multiple regression errors in

variables, estimation of simultaneous equation systems, linear and nonlinear programming, game theory and decision theory. Techniques of research report writing.

### **AEC622 Operations Research Methods in Agricultural Economics**

The field of operations research as applied to agricultural decision, building applicable models, linear programming and its extension; game theory applications, and extension, Markov chain process; inventories and their control; waiting line problems and the theory of queues; simulation. Decision theory and applications in agricultural economics.

### **AEC624 Agricultural Insurance**

Nature of risks and uncertainty in agriculture, alternative risk management techniques in agriculture, insurability of agricultural risks, objectives and types of crop insurance schemes, importance and forms of livestock and other farm enterprises, farm property and farm engineering insurance; personal and liabilities insurance for farmers; Principle, procedure, organization and operation of the Nigerian Agricultural Insurance Scheme. Methods of premium and indemnity calculations.

### **AEC625 Agricultural Price Analysis**

Principles of Price Determination: Demand for agricultural products.

### **AEC626 Agricultural Policy Analysis**

Analysis of government policies as they affect the measurement and the level of economic activity in agriculture Review of Structure of Policy Evaluation Models; Model Specification and Data Generation; Mathematical programming approach to policy analysis; Econometric approach to policy analysis; Impact Assessment of Interventions; Empirical Analysis of Agricultural Household Models; Trade Policy Analysis; Multi-Sectorial Models.

#### **4.0 AREAS OF ACTIVE RESEARCH**

Active research is ongoing in various genres of Science. The following are the core areas in which members of staff are actively engaging.

- i. Agricultural Business Management
- ii. Agricultural Finance
- iii. Agricultural Marketing
- iv. Agricultural Cooperatives
- v. Agricultural Resource and Environmental Economics
- vi. Farm Management and Production Economics