

OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE, NIGERIA



FACULTY OF AGRICULTURE

**DEPARTMENT OF AGRICULTURAL EXTENSION AND RURAL
DEVELOPMENT**

**IN COLLABORATION WITH
CENTRE FOR DISTANCE LEARNING
OBAFEMI AWOLOWO UNIVERSITY
ILE-IFE, NIGERIA**

INFORMATION BOOKLET ON

**B.Sc. in E- AGRICULTURAL EXTENSION AND COMMUNITY
ENGINEERING**

2019

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ILE-IFE, NIGERIA**

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ON

**B.Sc. in E- AGRICULTURAL EXTENSION AND COMMUNITY
ENGINEERING**

(The Sasakawa Africa Fund for Extension Education (SAFE) Programme)

Foreword



I am delighted to welcome all our e-Learning students. It is to your credit that you chose OAUCDL for your undergraduate programme. You will not

regret your choice and your experience here will soon justify your decision. Obafemi Awolowo University, Centre for Distance Learning deployed state of the art technology, highly qualified and highly skilled and experienced instructors, tutors and technical personnel to make your learning as easy and smooth as can be found anywhere.

However, I need to assure you that contrary to what many think, e-Learning, while with latitude for convenience is not easier than and is certainly not an escape from the rigours of academic work that the conventional face-to-face classroom learning presents. You will be responsible to cover the same course materials and strive for the same standards of excellence that are demanded in the face to face courses. It therefore becomes imperative for you to understand that e-Learning requires from you self-motivation, commitment or hard work and discipline.

To achieve the desired success, you should get started as soon as the session commences and adhere to the scheduled programme of tasks and goals as they are outlined in the academic calendar. This way, you will not get stocked with piled up work which can be very discouraging. Taking off gradually and systematically and staying on schedule is one of the secrets for success in online study. I pray and trust you will make the necessary commitment.

The curricula for our various programmes are the same as for the regular in-house programmes within the University; hence, our degrees are of the same qualities as for full-time students. This handbook provides you current information about Open and Distance Learning Undergraduate programmes.

All our channels for consultation with your instructors, tutors, classroom forums and support groups are open to you anytime. Please seize the opportunity should you require clarification on any issue. I wish you a successful academic career in OAU-CDL.

Prof Sola Akanni

Foreword by the Dean, Faculty of Agriculture



The contribution of agriculture to nation building is increasingly becoming glaring in Nigeria with the unstable nature of fossil fuel prices. The potentials available in the agricultural sector in Nigeria have largely remained untapped. Several research outputs and innovations with potential to improve agricultural productivity are being developed in our Faculties of Agriculture, specialized Universities of Agriculture and research Institutes. Many of these however have remained on the shelves in thesis or only as prototypes. Agricultural extension is the link between research/ innovation and the farmers who are the end users. There is paucity of well-trained agricultural extension workers compared to the number of farmers in Nigeria at this moment. The few available ones are either not properly trained or require re-training in modern methods of agricultural extension and rural development. There is therefore an urgent need train agricultural extension workers who will be able to bridge the existing chasm between research/innovation and major actors in agriculture and agribusiness. This programme is therefore developed to train the critical mass of agricultural extension workers required to start an agricultural revolution in Nigeria.

The curricular for this programme is designed in such a way as to enable those who are engaged in practical extension services to improve their knowledge while on their work stations. The courses are designed to take care of varied categories of students. The application of information system techniques, social media and the conventional methods to reach farmers are packaged into this course. The enterprise component is another unique feature of this programme. It gives students practical hands-on training on enterprise of their choice.

Prof. Durodoluwa Joseph Oyedele



Foreword by the Head, Department of Agricultural Extension and Rural Development

Scientific Research outcomes are very germane to development at the community and National levels. Extension is a science that incubates, packages and disseminates research outcomes in form of innovations and technologies for adoption by community people and industries, for improved livelihoods. Extension science is very strategic to development at the individual, community and national levels. However, the inadequate extension scientists, especially the females, at the community level in most developing countries like Nigeria has contributed significantly to increasing disconnect between research and development; whereby most research outcomes are wasted on the shelves. Furthermore, extension and rural advisory services remain ineffective while production activities, especially agricultural, remain traditional and primitive. Consequently, there is growing food insecurity and poverty, especially at the grassroots. This calls for a paradigm shift in extension science; the best available option is to make use of the fast growing technological advancement in communication by integrating the modern Information and Communication Technologies (ICTs) into the extension and rural advisory system; this has proven effective in many developed and few developing countries of the world.

You will agree with me that the first step to this paradigm shift is extension curriculum re-organisation, which will also involve repositioning of the community engagement strategy to a gender responsive, holistic, and practical-people-oriented approach, called “community engineering”.

At this juncture, I congratulate you, for being a major beneficiary of this great revolution in extension and rural advisory system in Nigeria. I promise you that you will find fulfillment in this course titled “Bachelor of Science in e-Agricultural Extension and Community Engineering”, because the content is adequately rich enough, the Tutors are competent Experts, and the mode of delivery is modern and friendly, to empower you with adequate and appropriate knowledge and skills required for transforming research outcomes into community engineering tools for sustainable development.

Thanks for your commitment to sustainable food security and National development.

Prof. Mrs. Olanike F. Deji

Principal Officers of the University

VICE- CHANCELLOR

PROFESSOR TOPE OGUNBODEDE

DEPUTY VICE CHANCELLOR (ACADEMICS)

PROF. A.S. BAMIRE

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Dip. Gen. Agric. Akure; B. Agric. (Hons.) Ogun; MSC, PhD (Ife).

Ag. Heads of Units of the Centre for Distance Learning

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MR. O.K. FANIRAN

PROGRAMMES UNIT

MRS O.M. AFOLABI

ACADEMIC UNIT

MR. O. OYELEKE

ICT UNIT

MR. E. O. OYEDELE

FACILITIES UNIT

MR E.J. OLADIMEJI

MEDICAL UNIT

DR. D.E. OYEBOLA

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THE OBAFEMI AWOLowo UNIVERSITY

Vision

The vision is of a top rated university in Africa, that is, the technological flagship of the West African sub-region, as evidenced by its application of modern technology to teaching, research and community service, and its provision of practical solutions to social, cultural and economic problems.

Mission

The mission of the University, as stated in the University of Ife Edict 1970, is “to promote by research and other means the advancement of knowledge and its practical application to social, cultural, economic, scientific and technological problems “ to create a conducive teaching and learning community for imparting skills, knowledge, behavior and attitude; advance and protect the independence of the academic enterprise; engender a sense of selfless public service and promote the African culture and tradition.

Brief History

Obafemi Awolowo University was founded in 1962, then as the University of Ife. The University is presently constituted of 13 Faculties, 2 Colleges and 95 academic Departments and units with 175 undergraduate and post graduate degree programmes in the Liberal Arts, Education, Science and Technology. Our Instructional curricula rank one of the best in the country and internationally. Since graduating its first students in 1966, the University has produced graduates found in virtually all fields of human endeavour within the country and in the Diaspora. In establishing OAU Distance Learning, we are therefore fortunate to draw not only on our historical strength in curriculum development but because of the broad range of curricula offered at the university, we have faced no problems accessing competent academic staff to moderate courses.

In addition we have considerable experience in information networking technology, perhaps not matched by any University in Nigeria. With the establishment of the University’s Information Technology and Communications Unit (INTECU) in 1996, we have been running a satellite receive terminal facility that supports the campus-wide network, OAUNET, which extends internet connectivity to locations throughout the extensive campus. In this respect Obafemi Awolowo University has the best developed Information and Communication Technology (ICT) system in the country.

The strategic plan of the University gives priority to harnessing and adapting modern technologies in effecting its objectives, the university has also continued to keep pace with modern technological developments which is continually evolving in response to the needs of the nation and the international community.

INTRODUCTION

The Governing Council of Obafemi Awolowo University at its meeting of April 16 and 17, 2002 approved the establishment of the Centre for Distance Learning, with the mandate to facilitate the development and coordination of the delivery of degree and sub-degree programmes by the Open and Distance Learning mode.

The Centre is one of the six Universities which the National Universities Commission has given recognition to operate the Open and Distance Learning (ODL) mode in addition to the conventional face-to-face mode of lecture delivery. There are many working class people who are desirous of acquiring university education but cannot afford to engage in full-time studies, requiring taking full leave of absence from their jobs. There is the need to devise alternative means of providing University Education to these categories of students. It was in recognition of this need that the Centre started providing the means of expanding the reach of education that is open, flexible and responsive to the challenge of a rapidly changing world, accessible worldwide anywhere, anytime and to virtually anyone who needs it.

OAU ODL (Open Distance Learning) Model

The Distance Learning Programmes involve both conventional face-to-face mode of lecture delivery and applications of multimedia technology that supports electronic instructional delivery mode (e-Learning), as well as independent learning or correspondence.

The technology for e-Learning, comprising the Digital Video Broadcast (DVB-based) VSAT and multimedia conferencing network systems permits the transmission and reception of streaming video and audio signals and enable learners to access our educational resources at remote receiving centres locally, nationally and internationally. These are complemented by CD-ROMs, ZIP Disks, etc.

Good pedagogy is ensured to make teaching and studying at a distance as effective as traditional instruction; the method and technologies are designed to be appropriate to the instructional tasks; there are student-to-student interactions, and timely teacher-to-student feedbacks. Dedicated classrooms will be used at Resource Centres for students to receive transmitted lectures in groups on large screen projectors or computer monitors with adequate provision of interactivity and local learner support. During the class, students will have the opportunity for real-time interaction between students and between students and instructors using email, computer conferencing, chat or web-based whiteboard facilities, and sometimes through voice or video communication. With easy-to-use internet access software (MOODLE), students will access and retrieve lectures,

questions and assignments from their instructors, then review them off-line on their own or in discussion groups, and receive instructor's guidance and feedback on students' progress. Accessible Web pages will be created for all core institutional information such as course work, registration, advising, admission, catalogs, and student services information.

There will be set dates when a course begins and ends and fixed date events within each course e.g. fixed dates for events such as assignment submission, face-to-face sessions, the start and end of on-line conferences, telephone tutorials and examinations. Student attendance requirements will also be built into distance learning courses e.g. workshops, practical sessions, seminars, tutorials, project or thesis and examinations. All readings, working sessions, assignments and other tasks will be pre-specified and monitored on a continuous basis. Students however, will maintain the flexibility outside of the fixed dates for events to decide when, within a month they will study their course materials and attend classes, as class sessions will not necessarily take place simultaneously for everybody at set times. There will be occasional visits of instructors to the Resource Centres for tutorials, personalized attention and examinations.

Distance Learning students will actually learn from the same lecturers who teach on-campus as they deliver lectures and course material online or pre-recorded, thus ensuring parity of curriculum contents and academic standards both on-campus and off-campus. The total time to complete an online course will be equivalent to that of an on-campus programme and the same degree will be earned as the ones on-campus.

The other delivery platforms will be text, broadcast and correspondence based, supported by print materials and face-to-face instructional delivery mode for courses that require residential school during long holidays for industrial training, laboratory attendance, tutorials, practicum or examination. At regular times during the year students will receive packages of study materials and assignments prior to their residential period.

Technical Infrastructure

CDL is served by a microwave link via GLO1 Nigeria Limited with a bandwidth capacity of 90mbps in both upload and download. In addition, a backup connection via VSAT on Sky Vision UK with a capacity of 64kbps uplink and 256 kbps downlink is also installed.

The CDL has an e-portal through which seamless services like e-payment, e-application, e-registration, and e-administration (accounting, admission, etc) e-mail and content management are

carried out. Back-up power supply is provided with a generator and solar panel, the solar panel unit being dedicated solely for use by the Multimedia unit to ensure continuous e-portal operation.

In addition to the above, CDL additional components to the E-learning project are as follows:

- E-learning Studio, associated tools and hosting infrastructure
- Tele-conferencing technology
- Digital Centre
- Course content conversion and courseware development
- High speed internet connectivity
- Promotions and advertisement
- E-learning Resource Centres at Abuja, Lagos, Ibadan and Port Harcourt

Resource Centres

The Distance Learning administrative headquarters is on its permanent site in Moro. Resource Centres will be established at strategic locations in the country. Each Resource Centre will be equipped with Local Area Networks(LAN), broad band internet, at least 500-computers workstations, internet and digital library access, as well as equipment for live viewing, playback, audio and video conferencing, fully interactive services and virtual classrooms. It will also have a large classroom capable of sitting up to 200 students and other adjoining rooms used for small classes and tutorials, library, common rooms and refectory. Each Resource Centre Manager will provide management support and leadership for the day-to-day administration of the Centre, coordinate the use of the multimedia information networking facilities at the Centre and maintain regular liaison with the Headquarters.

DEPARTMENT OF AGRICULTURAL EXTENSION AND RURAL DEVELOPMENT

Background Information

At the commencement of the University of Ife (now Obafemi Awolowo University), Ile-Ife, Nigeria, in 1962/63 academic year, the Department of Agricultural Extension and Rural Development (formerly Department of Extension Education and Rural Sociology) was not established like other Departments in the Faculty of Agriculture until 1967. The Faculty had earlier been founded in 1964. The Integrated Rural Development Project (IRDP) based in the Department, is an avenue for the University to disseminate research findings to the farmers and neighboring community dwellers. The Department was, thus, established with the recognition that it would, in cooperation with other Departments in the Faculty, play an important role in helping to bring about improvement in agricultural production in neighbouring communities and by that contribute to the improvement of the living standards of the rural community inhabitants.

Philosophy and Objectives of the Department

The goal of the Department is to produce graduates with the requisite knowledge, skills and attitudes in the agricultural development process, and those who possess the competence to effectively transmit such skills to farmers and other members of the public. The objectives are to

- (i) enhance students' acquisition of the understanding of basic natural science concepts, which are applicable to agriculture;
- (ii) enhance students' comprehension of agricultural science concepts, principles, theories and skills in crop production, livestock production and soil management; fisheries and renewable resources;
- (iii) help students' understand basic principles in agricultural economics and farm management;
- (iv) a mastery of the concepts, principles, theories and skills in agricultural extension and rural sociology, needed to effectively transmit improved practices in agriculture to the practicing farmers and other members of the public;
- (v) teach skills in research methodology needed to diagnose and approach agricultural development problems with confidence and effectiveness; and
- (vi) help students acquire experience in rural development projects in some rural communities in the catchments area of the university through exposure to extending research information in agriculture, health, housing, home economics and other areas of rural life to improve the quality of life of the rural dwellers.

Introduction to the Sasakawa Africa Fund for Extension Education (SAFE)

The Sasakawa Africa Fund for Extension Education (SAFE) is funded by the NIPPON FOUNDATION and established by the Sasakawa Global 2000 Agricultural Initiative, which was established by Dr. Borlaug, Mr. Ryoichi Sasakawa and former US President, Jimmy Carter. It is aimed at assisting extension officers and mid-career officers to pursue university degree programmes and consequently enhance their leadership positions in their countries.

The SAFE was established in 14 African countries. There are 4 Universities in Nigeria offering B.Sc. degree programmes in agricultural extension. These are the Ahmadu Bello University, Zaria, Bayero University, Kano, University of Ilorin, Ilorin and the Adamawa State University, Mubi.

Justification

The rate of innovations generated from academic and research institutions are not commensurate with that reaching the community populace for adoption and consequent livelihood improvement. This gap is due to insufficient number (especially the females) and inadequate competence of extension personnel in Nigeria. Consequently, agricultural production and agrarian populace livelihoods are below expectations. Furthermore, in the South West geopolitical zone of Nigeria, there are numerous graduates (ND/HND/Bachelor degrees) of institutions of higher learning currently engaged or interested in providing extension services. In addition, the poor road network and remote distance between agrarian communities and urban centres in Nigeria further hinders effective provision of extension and community engineering services. The findings from the needs assessment and stakeholders' meeting held on 10th April 2018 at Obafemi Awolowo University, as a preliminary to the commencement of Sasakawa Africa Fund for Extension Education (SAFE) also confirmed these challenges and recommended the need for a paradigm shift in agricultural extension services and community development curriculum that entails practical, demand-driven, technology-based and holistic approach which has been proven effective in attaining effective agricultural information dissemination and advisory services that promised sustainable community development; hence the adopted concept of e (electronic)-agricultural extension and community engineering.

Engineering is a multidisciplinary academic concept, and is found appropriate to achieving the goal of sustainable community development. Community Engineering is being offered by most Tertiary Institutions, especially in the developed countries such as University of Lucknow,

SzentIstvan University of Hungary, just to mention a few. The community engineering track focuses primarily on the understanding of the current problems of sustainable community and agricultural development, approaches for collaborative and people-centred partnership in development, the planning, execution and monitoring and evaluation of development projects. It also focuses loss minimization after harvests, development and management of local/traditional markets, as well as logistics management and warehousing. The most special feature of the Community Engineering is the organization of frequent study trips to different scales of farms, municipalities and rural development agencies and projects within and outside Nigeria via internet and face-to-face contacts.

Hence, the proposed B.Sc. programme in e-Agricultural Extension and Community Engineering, which aim to enhance the extension career prospects, and improve the capacity for extension service delivery; thereby contributing to bridging the gap between research and agrarian community populace for sustainable food security, as well as community and national development.

Objectives of the SAFE Programme

- (a) The overall objective of the programme is to produce University graduates of agricultural extension who are trained in various leadership and technical skills;
- (b) The programme is specifically aimed at building the capacity of the candidates in development and usage of technology for electronic-extension science and community engineering; and
- (c) Continually developing and implementing a curriculum that is demand driven for the production of skilled extension staff for the improvement of rural community through their involvement in Animal and Crop Production, Post-harvest Technology, Irrigation Agronomy, Food and Nutrition, other sectors in community development.

Target Candidates

The programme is targeted at training mid-career extension workers, and other interested candidates and graduates with ND/HND/Bachelor degrees in science fields from recognised institutions of learning in Nigeria, to become extension and community engineering scientists.

Course Duration / Admission Requirements

Three categories of prospective students are targeted:

A. Science-based ND and NCE Holders without Agricultural academic background (4 years) or Science-based ND and NCE Holders with Agricultural academic background (3 years)

The candidate must satisfy the following requirements:

- (a) be a serving agricultural extension worker or agricultural related/community development worker/self-employed with a minimum of 2 years post qualification (ND/NCE)experience;
- (b) be recommended and sponsored by the employer; if self-employed- to be recommended by one of your post-secondary education Teachers;
- (c) possess ND/NCE in agriculture or related field from any recognised institution; and
- (d) Satisfy the University's minimum admission requirements of at least credit passes in 5 relevant subjects including English language and Mathematics in the West African School Certificate or its equivalence.

B. Science-based HND Holders without Agricultural academic background (4 years) or Science-based HND Holders with Agricultural academic background (3 years)

The candidate must satisfy the following requirement:

- (a) be a serving agricultural extension worker or agricultural related/community development worker/self-employed with a minimum of 2 years post qualification (HND)experience;
- (b) be recommended by and sponsored by the employer; if self-employed- to be recommended by one of your post-secondary education Teachers;
- (c) possess HND in agriculture or related field from any recognised institution; and
- (d) satisfy the University's minimum admission requirements of at least credit passes in 5 relevant subjects including English language and Mathematics in the West African School Certificate or its equivalence.

C. Transfer Students from Science-based First degree Programmes in any accredited University or certificate holders in Rural Development Studies, Extension Management and Administration / Agricultural Media Communication from Obafemi Awolowo University (4 years)

The candidate must satisfy the following requirements:

- (a) satisfy the University's minimum admission requirements of at least credit passes in 5 relevant subjects including English language and Mathematics in the West African School Certificate or its equivalence; and
- (b) have a minimum of 1.00 Cumulative Grade Point Average (CGPA).

Programme Areas of Specialization

The programme shall cover all the following areas:

- i. Agri-business;
- ii. Animal production and processing;
- iii. Crop production and Protection;
- iv. Food, Nutrition and Resources Management;
- v. Postharvest Value Addition and Technologies; and
- vi. Soil Conservation and Land Management.

These areas of specialization were recommended based on the outcomes of the needs assessment and stakeholders' meeting held on 10th April, 2018 at Obafemi Awolowo University, Ile Ife, Osun State, Nigeria (See Appendix I for detail information).

Programme Duration

- (a) The programme shall be taught 70% online and 30% face-to-face contact basis.
- (b) The last semester shall be for Supervised Entrepreneurship Projects (SEPs) for all the candidates.

Supervised Enterprise Projects (SEPs)

The first set of students admitted into the SAFE programme shall start their SEPs in 2018/2019 session

- i. Each student shall identify a problem in Nigeria agrarian communities, under any of the options;
- ii. Develop a proposal for intervention programme to solve the identified problem;
- iii. Implement the approved proposed intervention programme;
- iv. Evaluate and submit report on the intervention programme;
- v. Each student shall have 3 supervisors (1 from the Department of Agricultural Extension and Rural Development, 1 from the subject matter field option and 1 industry-based supervisor);
- vi. The industry based supervisor shall monitor the project frequently while the University supervisors shall visit the students' sites and assess their performance; and
- vii. Grading shall be based on approved the guidelines.

Requirement for Graduation

A student shall earn a minimum of 177 credit units before graduating.

Curriculum and Course Structure

The following is course outline for the B.Sc. in E-Agricultural Extension and Community Engineering.
All courses are compulsory.

***PART TWO**

Preliminary Year: First Semester

Code	Title	Credit Units
AXE 201	Introduction to Agricultural Extension	2
AXE 203	Principles of Rural Sociology	2
AXE 205	Leadership Skills	2
AXE 207	Introduction to Forestry Resource Extension and Management	2
AXE 209	Introduction to Agricultural Economics	2
AXE 211	Anatomy and Physiology of Farm Animals	2
AXE 213	Principles of Animal Production	2
AXE 215	Principles of Crop Production	2
AXE 217	Principles of Soil Science	2
AXE 219	Principles of Food Science and Human Nutrition	2
AXE 221	Introduction to Computer Science and its Application in Agriculture	2
	Total Credit Units	22

Preliminary Year: Second Semester

Code	Title	Credit Units
AXE 202	Basic Farm Structures, Buildings and Housing Systems	2
AXE 204	Introduction to Entrepreneurship	2
AXE 206	Peace and Conflict Resolution	2
AXE 208	Environment and Sustainable Development	2
AXE 210	Introduction to Biotechnology	2
AXE 212	Introductory Agricultural Biochemistry	2
AXE 214	Crop Anatomy, Taxonomy and Physiology	2
AXE 216	Climatology and Biogeography	2
AXE 218	Fundamentals of Fabric and Clothing Construction	2
	Total Credit Units	18

***For science-based but non-agricultural background candidates with First degree, ND/NCE and Transfer Candidates from Science-based University degree.**

PART THREE

First Semester

Code	Title	Credit Units
AXE 301	E-Extension Methods, Tools and Models	2
AXE 303	E-Platforms for Participatory Agricultural Extension	2
AXE 305	ICT Compliant Community Engineering Principles	2
AXE 307	Social Change and ICT Compliant Community Engineering	2
AXE 309	Extension Strategies and Pilot Projects in Rural Development	2
AXE 311	Agricultural Production Economics	2
AXE 313	Ruminant and Non-Ruminant Production	2
AXE 315	Introduction to Fisheries, Aquaculture and Wildlife Management	2
AXE 317	Principles of Plant Breeding and Physiology of Crop Growth	2
AXE 319	Principles of Soil and Water Conservation	2
AXE 321	Meteorological Science and Weather Forecasting and Precision Agriculture	2
	Total Credit Units	22

Second Semester Module

Code	Title	Credit Units
AXE 302	Enhancing ICT Compliance of Community Engineering and Agricultural Innovation System (AIS)	2
AXE 304	Extension Programme Planning and Evaluation using ICT	2
AXE 306	Information and Technology Communication (ICT) in Extension	2
AXE 308	E-Tools and Techniques for Community Engineering	2
AXE 310	Building Sustainable Community Leadership and Organisation using ICTs	2
AXE 312	Extension Strategies and Pilot Projects in Rural Development	2
AXE 314	Systems Thinking for Changing Agriculture	2
AXE 316	Planning of Supervised Entrepreneurship Projects	2
AXE 318	Introduction to Development of E-Extension Apps I	2
AXE 320	Introduction to Agricultural Engineering and Farm Machinery	2
AXE 322	Communication in English	2
SE	1 Special Elective	2

	Total Credit Units	22
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PART FOUR

First Semester

BASIC E-EXTENSION MODULE

Code	Title	Credit Units
AXE 401	Statistics and Research Methods in Extension and Community Engineering Science	2
AXE 403	Principles of Cooperative Practices for Community Engineering	2
AXE 405	Management of Extension Organizations and Programmes	2
AXE 407	Development of Agricultural Extension Training Materials	2
AXE 409	Extension and Community Engineering Professional Ethics	2
AXE 411	Policy Formulation and Analysis in Extension and Community Engineering	2
AXE 413	Risk Management and Adaptation in Advisory Services and Community Engineering	2
AXE 415	Gender, Youth and Vulnerable Issues in Agriculture	2
SE	2 Special Electives	4
	Total Credit Units	20

Second Semester

Code/Title	Module	Credit Units
1.AXE 402/Developing E-Extension Applications	1.E-Extension in Agriculture Concepts 2. Introduction to ICT Facilities and Equipment Operation and Maintenance 3. Introduction to Web2-4Dev in Agriculture 4. Information Sourcing and Packaging from E-Resources 5. E-Information Policy and Security 6. E-Agricultural Strategies, Agricultural Knowledge Management and Dissemination through Digital Library 7. Introduction to Digital Green and its Roles in E-Extension 8. Social Network Platforms and Tools for Sharing Agricultural Information	3
2. AXE 404/E-Postharvest Handling and Value Addition	1. Postharvest Physiology and Product Storage 2. Postharvest handling and Crop Produce Value Addition	3

Technology Extension	<ul style="list-style-type: none"> 3. Animal Products Value Addition; Fish Technology, Processing and Storage 4. Animal Products, Processing and Handling 5. Products Standardization, Value Addition and Standardization Technologies 6. Appropriate Packaging and Storage of Products 	
3. AXE 406/E- Agri-Business Extension	<ul style="list-style-type: none"> 1. Introduction to Farm Management 2. Agricultural business Management, Marketing and Price Analysis 3. Agricultural and Agribusiness Policy 4. Agribusiness Project Appraisal 5. Value chain approach in Agriculture 6. Financial Accounting in Agribusiness 	3
4. AXE 408/ E- Animal Production Extension	<ul style="list-style-type: none"> 1. Animal Feed Resources and Feeding Principles 2. Poultry Production 3. Sheep and Goat Production 4. Animal Breeding 5. Beef and Dairy Production 6. Animal Experimentation and Research Techniques 	3
5. AXE 410/ E- Crop Production and Protection Extension	<ul style="list-style-type: none"> 1. Weed Science 2. Field Experimentation 3. Physiology of Crop Production 4. Micro- Propagation 5. Pesticides and their Application 6. Crop Entomology 	3
6. AXE 412/E- Soil Conservation and Land Management Extension	<ul style="list-style-type: none"> 1. Farm Design, Survey & Land Use Planning 2. Farm Machinery and Mechanization Practice 3. Soil and Water Management 4. Principles of Organic Farming 5. Introduction to Irrigation Agronomy 6. Soil and Crop Nutrition 	3
Special Elective (SE)	1 SE	2
		20

PART FIVE

First Semester

Code/Title	Module	Credit Units
1. AXE 501/ Developing E- Extension Applications II	<ol style="list-style-type: none"> 1. Using ICTs at Grassroots for Community Engineering: Digital Green 2. Use of Virtual Knowledge Network in Extension and Community Engineering 3. Providing e-Climate Change Knowledge Advisory to Farmers 4. Uses of Community Radio in Extension and Community Engineering 5. Harnessing Social Media for Agricultural Development and Community Engineering 6. Smart Phones Use and Management for Extension and Community Engineering 7. Developing Farmers Contact/Call Centers for Advisory Services and Community Engineering 8. Information Dissemination to Farmers by Use of Short Text Message and E-Mail 9. Responding to E-Mails, Calls and Short Messages from Farmers 10. Accessing Online E-Resources e.g. AGORA, OARE, etc. 11. Developing e-Training Materials for Farmers' Capacity Building 12. Developing e-Agricultural Apps for Precision Agriculture, e-Commerce, e-Agricultural Information Exchange and Communication 	6
2. AXE 503/E-Agri- Business Management Extension	<ol style="list-style-type: none"> 1. Agribusiness Value Chain Analysis 2. Agribusiness Risk Management 3. Agribusiness Finance 4. Cooperative Development and Entrepreneurship for Agribusiness 5. Management information systems in Agri-enterprises 	2
3. AXE 505/ E-Animal Production Extension	<ol style="list-style-type: none"> 1. Fish Farming Techniques and Hatchery Management 2. Pasture & Range Management 3. Animal Health & Diseases 4. Ruminant Nutrition 5. Animal Products Processing & Handling 	2
4. AXE 507/ E-Crop Production and Protection Extension	<ol style="list-style-type: none"> 1. Seed Production Techniques 2. Forage and Fodder Crop Production 3. Farming Systems 4. Pests of Stored Produce 5. Use of Artificial Intelligence in Crop Diseases Management 	2
5. AXE 509/ E- Soil Resources and Water Management Extension	<ol style="list-style-type: none"> 1. Soil Tillage Concepts and Systems 2. Influence of Tillage on Edaphic Environment, Crop Production and Environmental Quality 3. Principles of Conservation Agriculture 4. Irrigation and Drainage 5. Soil and Water Management 	2

6. AXE 511/ Developing E- Extension Application III	1. Developing E- Crop production and protection extension application 2. Developing E- Animal production extension application 3. Developing E-Soil Resources and Water conservation extension application	3
		17

Second Semester

Code/Title	Module	Credit Units
AXE 502/Developing E- Extension Application IV	Individual Hands-on in Development of E-Extension Apps IV	8
AXE 504/Supervised Entrepreneurship Project	Conduct and Supervision of SEPs	8
		16

A. LIST OF STAFF IN DEPARTMENT OF AGRICULTURAL EXTENSION AND RURAL DEVELOPMENT

Academic staff	Status	Qualification	Specialization
O. F. Deji (Mrs.)	Professor and Head of Department	B. Agric. (First Class Hons.); M. Phil.; Ph.D. (Ife)	Women and Gender Studies in Agricultural Extension and Rural Development; Agricultural Innovations Diffusion and Adoption, Climate Change, Extension, Rural Advisory Service and Community Engineering Science.
A. J. Farinde	Professor	B. Agric. (Hons); M. Phil; PhD (Ife)	Programme planning & evaluation and communication in Extension
D. O. Torimiro	Professor	Dip. Gen. Agric. Akure; B. Agric. (Hons.) Ogun; MSC, PhD (Ife).	Child and Youth Studies in rural communities and Extension
A. O. Ajayi	Professor	B. Agric. (Hons.); M. Sc.; PhD (Ife)	Training and programme development in Extension
F. O. Adereti	Senior Lecturer	NCE. (Ondo); B.Sc. (Voc. Agric.) (UNN); M.Ed.; PhD (Ibadan)	Agricultural Education and poverty issues
B. O. Adisa	Senior Research Fellow	NCE (Ondo); B.Sc. (Voc. Agric.) (UNN); M. Sc; PhD (Ife)	Rural Community Development
A. F. Agboola	Senior Lecturer	B.Agric. (Hons.); M.Phil.; PhD (Ife)	Indigenous Knowledge in Agriculture
S.A. Adesoji	Senior Lecturer	B. Agric. (Hons.); MSc.; PhD (Ife)	Agricultural administration
H.F. B. Faborode (Mrs.)	Senior Lecturer	B.Ed (Hons.) (Ibadan); M.Ed. (Newcastle Upon-Tyne); Ph.D. (Ife)	Adult Education and Rural community Development
J. O. Ayinde	Senior Lecturer	B.Agric. (Hons) (Abeokuta); M.Sc. ; Ph.D. (Ife)	Youth Studies in extension administration and organizational

			strategies
V. O. Okorie	Senior Lecturer	B. Agric. (Hons.) ; M.Phil (Ife);MA ; Ph.D. (Wisconsin)	Youth studies in agricultural policy and extension strategies
T.F. Ojo	Lecturer I	B.Ed. (Agric.) (Ekpoma); MSc; Ph.D. (Ife)	Geographic Information System (GIS) and adoption studies in Agriculture
D. L. Alabi (Mrs.)	Research Fellow I	B.Sc.(Home Econs); M.Phil.; PhD (Ife)	Rural Household Development
Technical Staff		Designation	Qualification
J. A. Akinkunmi	Senior Agricultural Superintendent		OND, HND, PGD, M.Sc. (Agric. Ext) (OOU)
E.O. Bamigboye	Senior Agricultural Superintendent		OND, HND, PGD, M.Sc. (Agric. Ext) (LAUTECH)
F. O. Ayodele	Senior Agricultural Superintendent		OND, HND, PGD (FUTA)
K. A. Yusuf	Agricultural Assistant		OND (Akure)
Administrative staff			
O. O. Olaleye	Asst. Chief Senior Secretary		ND Diploma, EDP, WAEC
K. K. Daramola	Typist III		WAEC; Trade Test 35wpm
R. A. Mustapha	Asst. Chief Clerical Officer		O. Level WAEC; EDP Diploma in Computer

B. LIST OF LECTURERS FROM OTHER DEPARTMENTS IN THE FACULTY OF AGRICULTURE

Academic staff	Status	Department	Specialization
D. J. Oyedele	Professor; Dean	Soil Science and Land Resources Management	Soil Physics
O.G. Omitoogun	Professor	Animal Sciences	Animal Genetics/Aquaculture/Biot echnology
S.M. Odeyinka	Professor	Animal Sciences	Ruminants Nutrition

A.O. Salami	Professor	Crop Production and Protection	Plant Pathology/Soil Microbiology/Micrology
L. O. Ogunsumi	Professor	Institute of Agricultural Research and Training, Ibadan	Agricultural training and Extension
B. O. Lawal	Reader	Institute of Agricultural Research and Training, Ibadan	Agricultural training and Extension
O. O. Adesanwo	Senior Lecturer	Soil Science and Land Resources Management	Soil Chemistry and Fertility
A. O. Yesufu	Reader	Agricultural Economics	Agricultural Marketing and Cooperative
O.F. Adesiyani	Senior Lecturer	Agricultural Economics	Agricultural Business Management
V.O. Tanimonure	Senior Lecturer	Agricultural Economics	Agricultural Business Management
B.O. Oyebanji	Senior Lecturer	Animal Sciences	Animal Health
A.A. Adeyemi	Senior Lecturer	Animal Sciences	Animal Science
A. Oluwaranti	Senior Lecturer	Crop Production and Protection	Plant Breeding and Genetics
B.O. Ogunba	Professor	Family Nutrition and Consumer Sciences	Maternal and Child Nutrition
M.F. Olumakaiye	Reader	Family Nutrition and Consumer Sciences	Adolescent Nutrition
K.O. Bakare	Senior Lecturer	Family Nutrition and Consumer Sciences	Food Safety
K.O. Ajila	Senior Lecturer	Family Nutrition and Consumer Sciences	Textile Extension
M.K. Idowu	Reader	Soil Science and Land Resources Management	Soil Fertility and Plant Nutrition

A. Oyegbami	Senior Research Fellow	Institute of Agricultural Research and Training, Ibadan	Agricultural Information Dissemination
A. Fadairo	Senior Research Fellow	Institute of Agricultural Research and Training, Ibadan	Agricultural Extension
T. Alimi	Professor	Agricultural Economics	Agricultural Production Economics/Agricultural Business Management
A.B. Ayanwale	Professor	Agricultural Economics	Agricultural Production Economics/Agricultural Risk and Insurance
A.S. Bamire	Professor	Agricultural Economics	Agricultural Resources and Environmental Economics
E.O. Idowu	Professor	Agricultural Economics	Agricultural Policy Analysis, Resource and Environmental Economics
E.B. Sonaiya	Professor	Animal Sciences	Meat and Muscle Biology
A.O. Aderibigbe	Professor	Animal Sciences	Comparative Animal Nutrition
S. O. Oseni	Professor	Animal Sciences	Animal Breeding and Genetics
A. A. Amusan	Professor	Soil Science and Land Resources Management	Soil Genesis and Classification
A.A. Tijani	Professor	Agricultural Economics	Agricultural Production Economics and Farm Management
A.A. Fatufe	Reader	Animal Sciences	Nutrition/Biotechnology
B.O. Odu	Reader	Crop Production and Protection	Plant Pathology/Virology
O. Oluwasola	Reader	Agricultural Economics	Agricultural Development and Policy Analysis, Environmental Resource Economics
A.A. Akinola	Reader	Agricultural	Agricultural Resource and

		Economics	Environmental Economics
R. Kasali	Senior Lecturer	Agricultural Economics	Agricultural Marketing and Cooperative
O.I. Baruwa	Senior Lecturer	Agricultural Economics	Agricultural Production Economics and Farm Management
A.T. Adesiyan	Senior Lecturer	Agricultural Economics	Agricultural Resource and Environmental Economics
A.S. Ogunleye	Senior Lecturer	Agricultural Economics	Agricultural Marketing and Cooperative
O. D. Omodara	Senior Lecturer	Agricultural Economics	Agricultural Policy and Development Analysis
S. I. Ola	Reader	Animal Sciences	Reproductive Physiology
E.O. Akinfala	Reader	Animal Sciences	Non-Ruminants Production and Nutrition
J.A. Odedire	Reader	Animal Sciences	Animal ecology
O.A.Makinde	Reader	Animal Sciences	Animal Product/Nutrition
T.O. Abegunde	Senior Lecturer	Animal Sciences	Ruminant Nutrition
T.O. Akande	Senior Lecturer	Animal Sciences	Toxicology/Monogastric nutrition
O. Orisasona	Senior Lecturer	Animal Sciences	Animal Nutrition
B.J. Amujoyegbe	Reader	Crop Production and Protection	Agronomy Farming Systems
M.B. Sosan	Reader	Crop Production and Protection	Entomology/Toxicology
O.J. Soyelu	Senior Lecturer	Crop Production and Protection	Entomology/Insect Physiology
J.T. Opabode	Senior Lecturer	Crop Production and Protection	Crop Physiology/Biotechnology
R.O. Akinwale	Senior Lecturer	Crop Production and Protection	Plant Breeding/Biometry
A.S. Oladejo	Senior Lecturer	Crop Production and Protection	Crop Physiology/Biotechnology

F.E. Awosanmi	Senior Lecturer	Crop Production and Protection	Crop Physiology/Biotechnology
A.A. Folorunso	Senior Lecturer	Family Nutrition and Consumer Sciences	Interior Decoration
I.J. Diyaolu	Senior Lecturer	Family Nutrition and Consumer Sciences	Clothing and Textile
S.A. Muda	Senior Lecturer	Soil Science and Land Resources Management	Pedology/Soil Minerology
F.O. Tijani	Senior Lecturer	Soil Science and Land Resources Management	Soil Physics
J.O. Ojetade	Senior Lecturer	Soil Science and Land Resources Management	Soil Physics
G. A. Oye	Senior Lecturer	Family Nutrition and Consumer Sciences	Resources Management and Extension

C. ADJUNT LECTURERS

Academic staff	Status	Department	Specialization
I. Oladele	Professor	SAFE West Africa Anglophone Coordinator	Agricultural Extension and Value addition
E. Olajubu	Reader	Head, Computer Science and Engineering	Computer Science and Engineering
B. S. Afolabi	Reader	Computer Science and Engineering	Software/Information Technology
I. O. Awoyelu	Reader	Computer Science	Computer Engineering
E. Yesufu	Reader	Electrical and Electronics	Climatology and Meteorology
K. Taiwo	Professor	Food Science and Technology	Food Science and Engineering
R. O. Oyedapo	Lecturer	Library	Library Science
M. A. Olateju	Professor	English	English

D. LIST OF STUDENT –TUTORS (POST GRADUATE STUDENTS, DEPARTMENT OF AGRICULTURAL EXTENSION AND RURAL DEVELOPMENT, FACULTY OF AGRICULTURE, OBAFEMI AWOLOWO UNIVERSITY ILE-IFE, NIGERIA)

S/N	Name	Registration Number	Degree Programme
1.	Filusi, Olajide Julius	AGP16/17/H/0252	M.Sc.
2.	Aribifo, Damilola Leah	AGP16/17/H/0223	M.Phil
3.	Adeleke, Akintude	AGP16/17/R/0082	M.Sc.
4.	Sangodeyi, Abiola	AGP17/18/H/0487	M.Sc.
5.	Fajemidagba, Monijesu	AGP17/18/H/1382	M.Sc.
6.	Ojebisi, Titilade .F	AGP16/17/H/1468	M.Sc.
7.	Igbalawole, Moyinoluwa	AGP16/17/R/0043	Ph.D.
8.	Ajireloja, Kehinde	AGP15/16/H/0100	M.Phil
9.	Faniyi, Ebunoluwa	AGP17/18/H/0529	Ph.D.
10.	Omotosho, Elizabeth	AGP16/17/R/0081	M.Sc.
11.	Owasoyo, Olufemi	AGP15/16/R/0043	M.Sc.
12.	Ogungbemi, Folakemi	AGP13/14/R/0158	Ph.D.
13.	Olowoyo, Olamide	AGP16/17/H/0756	Ph.D.
14.	Sulaimon, Suberu	AGP16/17/H/0987	Ph.D.
15.	Adesoji, Aminat	AGP15/16/R/0060	Ph.D.
16.	Adeniye, Funmilayo	AGP16/17/H/0593	M.Sc.
17.	Akinduro, Akindotun	AGP15/16/H/0106	M.Phil.
18.	Akeju, Ifeoluwa	AGP15/16/H/0239	M.Sc.
19.	Ola, Lateef	AGP15/16/H/1093	Ph.D.
20.	Babasanya, Bankole	AGP14/15/H/0450	M.Phil.
21.	Fakoyede, Fisayo	AGP16/17/R/0046	M.Sc.
22.	Adejumo, Adeola		Ph.D.
23.	Oyeleru, Adeyemi		M.Sc.
24.	Adeyera, Temitope	AGP16/17/H/0736	M.Sc.

25.	Jimoh, Teslim		Ph.D.
26.	Fadare, Ismail	AGP16/17/R/0044	Ph.D.

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SCHOOL FEES FOR BSc. AGRICULTURAL EXTENSION AND COMMUNITY ENGINEERING (SASAKAWA PROGRAMME)

ITEM	FRESHERS (YEAR 2)	RETURNING STUDENTS (YEAR 3)	RETURNING STUDENTS (YEAR 4)	RETURNING STUDENTS (Year 5)	
TUITION	70,000	70,000	70,000	70,000	PER SESSION
ACCEPTANCE FEE	-	-	-	-	NIL
REGISTRATION	2,500	2,500	2,500	2,500	PER SESSION
MATRICULATION	2,500	-			PAYABLE ONCE
EXAMINATION	5,000	5,000	5,000	5,000	PER SESSION
LIBRARY FEE	2,500	5,000	5,000	5,000	PER SESSION
ADMIN CHARGES	5,000	5,000	5,000	5,000	PER SESSION
e-SERVICES	5,000	5,000	5,000	5,000	PER SESSION
ID CARD	1,000			1,000	PER SESSION
LABORATORY FEES	5,000	5,000	5,000	5,000	PER SESSION
MEDICAL FEES	10,000	5,000	5,000	5,000	PER SESSION
LEARNING DEVICE (uploading of content materials)	5,000				
Project Defence/Supervision				20,000	To be paid by the final year students
TOTAL	113,500	102,500	102,500	123,500	

FRESHERS AND RETURNING STUDENTS WILL BE ALLOWED TO PAY IN TWO INSTALMENTS

Freshers (Year 2 &3) -	1st Instalment - 78,500	2nd Instalment- 35,000
Returning Students (Year 3)	1st Instalment - 67,500	2nd Instalment- 35,000
Returning Students (Year 4)	1st Instalment - 67,500	2nd Instalment – 35,000
Returning Students (Year 5)	1st Instalment - 88,500	2nd Instalment – 35,000

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