



**OLUSEGUN AGAGU UNIVERSITY OF
SCIENCE AND TECHNOLOGY,
OKITIPUPA, ONDO STATE, NIGERIA**

SCHOOL OF SCIENCE

DEPARTMENT OF BIOLOGICAL SCIENCES

PROSPECTUS

4 -YEAR B.Sc. DEGREE

BOTANY PROGRAMME

MICROBIOLOGY PROGRAMME

ZOOLOGY PROGRAMME

Philosophy of the Department

The Department of Biological Sciences prepares students for Bachelor of Science (B.Sc) degrees in Botany, Microbiology and Zoology respectively. The Department is geared towards producing students that are knowledgeable and skilled in the science of Botany, Microbiology and Zoology and relevant and useful in the struggle to uplift the social, moral, and economic well-being of the country. The Programmes offers courses that are tailored to suit the needs of the nation as much as possible and produce graduates that will use their knowledge and skills to add value to life.

Objectives of the Department

The specific objectives are:

- i. To develop skilled scientists who are equipped with in-depth understanding of biological theories, methodologies, and techniques in the various disciplines of Botany, Microbiology and Zoology as tools for national development
- ii. To produce high level manpower relevant to national needs where research skills are required such as in Universities, Research Institutions, Industries and Government Agencies.
- iii. To produce deeply knowledgeable graduates who are equipped to be innovative and create jobs through consultancy services in the various fields of Botany, Microbiology and Zoology.

BOTANY PROGRAMME

1.0 DEGREE IN-VIEW:

Bachelor of Science (B.Sc.) in Botany

2.0. PROGRAMME PHILOSOPHY

The biological roles of plants, as the primary producers on which all other consumers depend upon to thrive and the increasing use of plants and plant products in the area of biotechnology to improve human health and the environment, make them an important and indispensable component of the ecosystem. This makes the scientific study of plants to the benefit of humankind inevitable. It is, therefore, crucial and imperative to train and produce graduates that will be able to manage the plants in a sustainable manner, promote plant diversity and modification, ensure plant conservation and encourage technology transfer. These are global mandates on plant genetic resources which this programme also intend to pursue.

In pursuance of these mandates, it is the philosophy of the programme to promote effective teaching, learning and meaningful researches in the best tradition of Botany, to produce graduates who will use their acquired knowledge on plants to solve the world's social, economic and ecological problems within the context of sustainable development.

3.0 PROGRAMME OBJECTIVES

- (i) Developing students' appreciation for plants and plant uses
- (ii) Familiarizing students with the names, identity and distribution of plants.
- (iii) Exposing students to practical Botany techniques that will enhance their quick understanding of the course.
- (iv) Acquainting students with the medicinal plant and medicinal uses of plants and general economic importance of plants.
- (iv) Building research culture into students to make them become plant scientists that will be able to manipulate plant genomes for beneficial purposes through Biotechnology.
- (v) To organize training workshops on conservation of plant diversity and management of plant resources for sustainable development.

4.0 ADMISSION REQUIREMENTS

(a) UTME Admission:

Candidates seeking admission through Joint Admissions and Matriculation Board (JAMB) Examinations must offer the following subjects: English Language and three other subjects out of Chemistry, Biology, Agricultural Science and Physics or any other relevant science subject.

In addition, candidates must have five credit passes at SSCE/NECO/GCE in English Language, Mathematics, Chemistry, Biology and Physics in not more than two sittings.

(b) Direct Entry Admission:

Candidates may be admitted into the 200 Level of the programme by direct entry if they have at least two A-Level passes in Biology/Zoology, Chemistry or any other relevant subject in addition to the five credit passes at SSCE/NECO/GCE in the subjects specified for UTME candidates.

5.0 PROGRAMME DURATION

The normal duration of the programme is four academic sessions for students admitted to 100 level through UTME and three academic sessions for those admitted into 200 level through Direct Entry. Students may take longer than the normal duration to complete the requirements for graduation but will not be allowed to exceed twelve (12) semesters for candidates admitted through UTME and ten (10) semesters for candidates admitted by Direct Entry.

6.0 GRADUATION REQUIREMENTS

To be eligible for the B.Sc. degree in of Olusegun Agagu University of Science and Technology, Okitipupa, a candidate must

- (a) pass all prescribed core courses, School and University required courses as well as electives;
- (b) complete successfully a minimum of 155 units for candidates admitted through UTME and 111 units for candidates admitted through Direct Entry, and obtain a CGPA of not less than 1.0, and

(c) complete successfully all prescribed industrial attachments, projects and seminars.

TABLE 1: LIST OF ACADEMIC STAFF IN THE BOTANY PROGRAMME

S/N	NAME OF STAFF	AREA OF SPECIALIZATION	DISCIPLINE	ACADEMIC QUALIFICATIONS	RANK	STATUS
1.	Prof. Adegoke Emmanuel Adegbite	Cytogenetics and Biosystematics	Botany	B.Sc., M.Sc., Ph.D	Professor	Permanent
2.	Prof. David Olaniran Aworinde	Plant Anatomy and Taxonomy	Botany	B.Sc. (Ed.), M.Sc., Ph.D	Professor	Permanent
3.	Dr. A. O. Ojatula	Phytomedicine	Plant Biology and Biotechnology	B. Sc., M.Sc., Ph.D.	Lecturer II	Permanent
4.	Dr. A. O. Osewole	Plant Ecology	Botany	B. Sc., M.Sc., Ph.D.	Lecturer II	Permanent
5.	Dr. (Mrs.) Funmilola Mabel Ojo	Plant Anatomy and Genetics	Botany	B. Sc. (Ed) M.Sc., Ph.D.	Lecturer II	Permanent
6.	Mr. Sakiru Morenikeji Erinoso	Ethnobotany and Plant Anatomy	Botany	B. Sc., M.Sc.	Lecturer II	Permanent
7.	Mr. Anthony Oluwadamilola Ogungbemi	Plant Ecology	Botany	B. Sc., M.Sc.	Assistant Lecturer	Permanent

MICROBIOLOGY PROGRAMME

1.0 DEGREE IN-VIEW

Bachelor of Science (B.Sc.) in Microbiology

2.0 PHILOSOPHY

The Philosophy of the programme is to produce University Graduates who are knowledgeable and adequately skilled and cultured with trained minds in general, while seeking to expose them to all facets of Microbiology with the purpose of self-realization and a sense of the need to contribute to National developments. Problem appreciation in the programme is located in the concrete objective of the Nigerian situation and cultural locale.

3.0 OBJECTIVES

- a. Producing graduates with a good B.Sc. Degree in Microbiology
- b. Graduating students who would be able to demonstrate professional competence on all issues concerning the area of Microbiology in which they specialize
- c. Building students' capacity to fit into the appropriate level of manpower to which their qualification will allow them in various employment opportunities available to Microbiologists
- d. Training students to develop self-confidence in appreciating, handling and solving problems with minimal or no supervision
- e. Producing Microbiologists who can be self-employed and possibly employers of labour
- f. Training students to be able to ease into postgraduate programme without difficulty

4.0 ADMISSION REQUIREMENTS

(a) UTME Admission:

Candidates seeking admission through Joint Admissions and Matriculation Board (JAMB) Examinations must offer the following subjects: English Language and three other subjects out of Chemistry, Biology, Agricultural Science and Physics or any other relevant science subject.

In addition, candidates must have five credit passes at SSCE/NECO/GCE in English Language, Mathematics, Chemistry, Biology and Physics in not more than two sittings.

(b) Direct Entry Admission:

Candidates may be admitted into the 200 Level of the programme by direct entry if they have at least two A-Level passes in Biology/Zoology, Chemistry or any other relevant subject in addition to the five credit passes at SSCE/NECO/GCE in the subjects specified for UTME candidates.

5.0 PROGRAMME DURATION

The normal duration of the programme is four academic sessions for students admitted to 100 level through UTME and three academic sessions for those admitted into 200 level through Direct Entry. Students may take longer than the normal duration to complete the requirements for graduation but will not be allowed to exceed twelve (12) semesters for candidates admitted through UTME and ten (10) semesters for candidates admitted by Direct Entry.

6.0 GRADUATION REQUIREMENTS

To be eligible for the B.Sc. degree in Applied Plant Science and Biotechnology of Olusegun Agagu University of Science and Technology, Okitipupa, a candidate must

- (a) pass all prescribed core courses, School and University required courses as well as electives;
- (b) complete successfully a minimum of 161 units for candidates admitted through UTME and 117 units for candidates admitted through Direct Entry, and obtain a CGPA of not less than 1.0;
- (c) complete successfully all prescribed industrial attachments, projects and seminars.

TABLE 2: LIST OF ACADEMIC STAFF IN THE MICROBIOLOGY PROGRAMME

S/N	NAME OF STAFF	AREA OF SPECIALIZATION	DISCIPLINE	ACADEMIC QUALIFICATIONS	RANK	STATUS
1.	Prof. Olakunle David Teniola	Industrial Microbiology	Microbiology	B.Sc., M.Sc., Ph.D	Professor	Permanent
2.	Dr. Soji Fakoya	Food Microbiology/ Mycology/ Mushroom Biotechnology	Microbiology	B.Tech., M.Tech., Ph.D.	Reader	Permanent
3.	Dr. (Ms) Eucharia Ezenwanyi Nmema	Medical Bacteriology	Microbiology	B.Sc., M.Sc., Ph.D.	Senior Lecturer	Permanent
4.	Dr. Adeyemi Isaiah Adeyemo	Environmental Microbiology	Microbiology	B.Sc., M.Sc., Ph.D.	Senior Lecturer	Permanent
5.	Dr. Felix Adeleke Ikuesan	Environmental Microbiology	Microbiology	B.Tech., M.Tech., Ph.D	Lecturer I	Permanent
6.	Dr. (Mrs.) Temitope Deborah Agboola	Environmental Microbiology & Biotechnology	Microbiology	B.Sc., M.Sc., Ph.D.	Lecturer II	Permanent
7.	Mrs. Monica Oluwatoyin Oguntimehin	Food Storage Technology	Storage Technology	B.Tech., M.Tech.	Assistant Lecturer	Permanent
8.	Mr. Saanu Bartholomew Adeleke	Food Microbiology	Microbiology	B.Sc., M.Tech.	Assistant Lecturer	Permanent

ZOOLOGY PROGRAMME

1.0 DEGREE IN-VIEW

Bachelor of Science (B.Sc.) in Zoology

2.0. PROGRAMME PHILOSOPHY

The B.Sc. Zoology is one of the disciplines in the world that deal with scientific study of animals, which includes man and their related sciences.

The need for man to know the relationships and interactions among animals and between animals and their environments cannot be over emphasized. This knowledge is essential for effective management, improvement and utilization of the animal resources.

The areas of Zoology include animal anatomy, physiology, histology, taxonomy genetics etc., which cut across all groups of animals (vertebrates and invertebrates) in their different habitats.

The Zoology programme of the University is designed to fulfil these academic responsibilities by training students in the discipline to become professionals and contribute its rightful share in relieving the shortages of food production, environmental conservation, veterinary and paramedical personnel, competent teachers and research workers in Zoology.

In addition to producing graduates of Zoology, the programme will service students from other science-based Schools of the University.

3.0 PROGRAMME OBJECTIVES

- (i) To produce graduates that can compete with other graduates of Zoology anywhere in the world in knowledge and skill for employments.
- (ii) To encourage the students to carry out quality researches and developmental activities that will put the University on a high pedestal internationally.
- (iii) To champion the course of animal production, preservation and conservation and provide services that will have impacts on the University's immediate communities.
- (iv) To develop professionalism in the graduates of the programme to become job creators, rather than being job seekers.

- (v) To organize training workshops on animal production, management, preservation, conservation and utilization.

ADMISSION REQUIREMENTS

(a) UTME Admission:

Candidates seeking admission through Joint Admissions and Matriculation Board (JAMB) Examinations must offer the following subjects: English Language and three other subjects out of Chemistry, Biology, Agricultural Science and Physics or any other relevant science subject.

In addition, candidates must have five credit passes at SSCE/NECO/GCE in English Language, Mathematics, Chemistry, Biology and Physics in not more than two sittings.

(b) Direct Entry Admission:

Candidates may be admitted into the 200 Level of the programme by direct entry if they have at least two A-Level passes in Biology/Zoology, Chemistry or any other relevant subject in addition to the five credit passes at SSCE/NECO/GCE in the subjects specified for UTME candidates.

5.0 PROGRAMME DURATION

The normal duration of the programme is four academic sessions for students admitted to 100 level through UTME and three academic sessions for those admitted into 200 level by Direct Entry. Students may take longer than the normal duration to complete the requirements for graduation but will not be allowed to exceed twelve (12) semesters for candidates admitted through UTME and ten (10) semesters for candidates admitted by Direct Entry.

6.0 GRADUATION REQUIREMENTS

To be eligible for a B.Sc. degree in Animal Biology and Environmental Sciences of Olusegun Agagu University of Science and Technology, Okitipupa, a candidate must

- (d) pass all prescribed core courses, School and University required courses as well as electives;
- (e) complete successfully a minimum of 159 Units for candidates admitted through UTME and 115 Units for candidates admitted through Direct Entry, and obtain a CGPA of not less than 1.0, and
- (f) complete successfully all prescribed industrial attachments, projects and seminars.

7.	Mr. Oluwadamilola, Tubosun Aturu	Herbarium/ Taxonomy	Botany	B. Tech	Technologist Ii	Permanent
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TABLE 3: LIST OF JUNIOR STAFF IN THE DEPARTMENT OF BIOLOGICAL SCIENCES

S/N	NAME OF STAFF	AREA OF SPECIALIZATION	DISCIPLINE	ACADEMIC QUALIFICATIONS	RANK	STATUS
1.	Mrs. Toyin Adekankun	-	-	SSCE	Senior Office Assistant	Permanent
2.	Mrs. Oluwakemi Ruth Metulukuro	-	-	SSCE	Senior Office Assistant	Permanent
3.	Mr. Olatunji Aiyemobuwa	-	-	SSCE	Senior Office Assistant	Permanent
4.	Mrs. Omotola Felicia Oluwase	-	-	NCE	Laboratory Assistant	Permanent
5.	Mrs. Doris Ayanfe Okwun	-	-	WASSCE	Laboratory Assistant	Permanent
6.	Mr. Babatunde Omotayo	-	-	WASSCE	Field Overseer I	Permanent
7.	Mr. Aderemi Ajele	-	-	WASSCE	Field Overseer III	Permanent
8.	Mr. Omosuyi Igbekele	-	-	WASSCE	Field Overseer III	Permanent