

THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

School of Postgraduate Studies

As part of its Vision and Mission in terms of the development of high-level skilled manpower for the country, Council of the Federal University of Technology, Akure approved the establishment of the Board of Postgraduate Studies in 1986 which metamorphosed into School of Postgraduate Studies in 1994.

In pursuance of the primary objectives of the Federal Government for the establishment of the Universities of Technology, the Postgraduate Programmes of the Federal University of Technology, Akure are intended to consolidate and build upon the solid intellectual and technological foundations which the undergraduate courses in the University have been most carefully designed to achieve.

The need for purposeful and functional education, which fosters technology for self-reliance, as an antidote to under-development, is the underlying principle for the design of specific Postgraduate Programmes in the various Schools of the University. The mission of the Postgraduate School includes the development and offering of academic and professional programmes leading to the award of postgraduate diplomas and higher degrees which emphasize planning, adaptive and productive skills in the engineering, scientific, agricultural, environmental and allied professional disciplines.

Within the context of these general objectives therefore, graduate students of the Federal University of Technology, Akure are trained to:

- (i) have a very sound and an in-depth knowledge of the basic principles underlying the body of knowledge they are being trained to master;
- (ii) develop a broad analytical mind that would enhance major intellectual and technological breakthroughs to improve the lot of man and the society;
- (iii) be adequately versed in their discipline, and be competent to impart the knowledge to others in a conducive academic environment to ensure the continued existence of the system.

It is worth mentioning that our admission policy reflects 60% undergraduate and 40% postgraduate supported by highly qualified academic staff.

Also worth mentioning is the fact that our Postgraduate students graduate in record time.

A. HIGHER DEGREE PROGRAMMES AVAILABLE

- Doctor of Philosophy (Ph. D)
- Master of Agricultural Technology (M. Agric. Tech.)
- Master of Engineering (M. Eng.)
- Master of Technology (M. Tech.)
- Master of Architecture (M. Arch.)
- Postgraduate Diploma (PGD)

1. SCHOOL OF AGRICULTURE & AGRICULTURAL TECHNOLOGY (SAAT)

Doctor of Philosophy (Ph. D), Master of Agricultural Technology (M. Agric. Tech.) and Postgraduate Diploma (PGD).

Programmes are available in the following options:

(i) Department of Agricultural Economics & Extension

- (a) Agricultural Extension
 - (i) General Extension
 - (ii) Rural Development
 - (iii) Rural Sociology
 - (iv) Transfer of Technology
- (b) Agricultural Economics
 - (i) Production Economics
 - (ii) Environmental Economics
 - (iii) Farm Management
 - (iv) Finance & Marketing

(ii) Department of Animal Production & Health

- (a) Animal Production & Management
- (b) Animal Nutrition
- (c) Animal Breeding and Genetics
- (d) Animal Reproduction & Physiology
- (e) Animal Microbiology
- (f) Meat Science (Ph.D only)

(iii) Department of Crop, Soil and Pest Management

- (a) Crop Management
- (b) Soil Management
- (c) Pest Management

(iv) Department of Fisheries & Aquaculture

- (a) Aquaculture
- (b) Fisheries Management
- (c) Fish Nutrition, Processing & Utilization
- (d) Fisheries Economics

(v) Department of Ecotourism and Wildlife Management

- (a) Wildlife Management
- (b) Ecotourism
- (c) Wildlife Domestication (Ph. D only)

(vi) Department of Forestry & Wood Technology

- (a) Forestry Management
- (b) Forestry Biology/Silviculture

- (c) Agro Forestry/ Soils
- (d) Wood Science
- (e) Wood Product Technology
- (f) Forest Economics

(vii) Department of Food Science and Technology

- (a) Food Chemistry
- (b) Human Nutrition
- (c) Food Processing
- (d) Biotechnology
- (e) Post Harvest Technology

2. SCHOOL OF ENGINEERING & ENGINEERING TECHNOLOGY (SEET)

Doctor of Philosophy (Ph. D), Master of Engineering (M. Eng.) and Postgraduate Diploma (PGD). Programmes are available in the following options:

(i) Department of Agricultural Engineering

- (a) Agricultural Machinery
- (b) Processing and Storage
- (c) Soil & Water Conservation
- (d) Machine Design & Testing
- (e) Alternative Energy

(ii) Department of Civil Engineering

- (a) Transportation Engineering
- (b) Water Resources Engineering
- (c) Structural Engineering
- (d) Geotechnical Engineering
- (e) Construction Engineering

(iii) Department of Electrical & Electronics Engineering

- (a) Power Systems
- (b) Communications
- (c) Control Engineering
- (d) Computer Application

(iv) Department of Mechanical Engineering

- (a) Production Engineering (All levels)
- (b) Building Services Engineering
- (c) Automotive Engineering

(v) Department of Metallurgical & Materials Engineering

- (a) Corrosion Engineering / Physical Metallurgy
- (b) Mineral Processing Technology

- (c) Extraction Technology
- (d) Minerals Engineering

(vi) Department of Mining Engineering

- (a) Mine Ventilation
- (b) Applied Operations Research in Mining
- (c) Rock Mechanics
- (d) Mine Environmental Engineering (Ph.D only)

3. SCHOOL OF ENVIRONMENTAL TECHNOLOGY (SET)

Doctor of Philosophy (Ph.D), Master of Technology (M.Tech), Master of Architecture (M. Arch.) and Postgraduate Diploma (PGD). Programmes are available in the following options:

(i) Department of Architecture (PGD, M. Tech, M. Arch, Ph. D)

- (a) Architecture (M. Tech)
- (b) Low Cost Housing
- (c) Urban Design
- (d) Landscape Architecture
- (e) Applied Climatology

(ii) Department of Urban and Regional Planning

- (a) Transport and Infrastructural Analysis
- (b) Environmental Planning Management
- (c) Regional Development Planning
- (d) Environmental Law
- (e) Environmental Impact Assessment
- (f) Rural Planning

(ii) Department of Estate Management

- (a) Real Estate Investment
- (b) Facilities Management
- (c) Housing Market Analysis

(iii) Department of Quantity Surveying

- (a) Cost Control
- (b) Construction Management
- (c) Project Management

(iv) Department of Industrial Design

- (a) Textile Design
- (b) Industrial Ceramics

4. SCHOOL OF EARTH AND MINERAL SCIENCES (SEMS)

Doctor of Philosophy (Ph. D), Master of Technology (M. Tech.) and Postgraduate Diploma (PGD). Programmes are available in the following options:

(i) Department of Applied Geology

- (a) Mineral Exploration
- (b) Geochemistry
- (c) Remote Sensing
- (d) Hydrogeology
- (e) Engineering Geology
- (f) Petroleum Geology
- (g) Sedimentary Geology

(ii) Department of Applied Geophysics

- (a) Petroleum Exploration
- (b) Mining Geophysics
- (c) Engineering/Hydro-Geophysics/Environmental Geophysics

(iii) Department of Meteorology

- (a) Synoptic Meteorology (with Specialization in Numerical Modeling of Atmosphere; Forecasting Techniques Meteorology)
- (b) Applied Meteorology (with Specialization in Agricultural System) Modeling, Urban Climatology and Pollution (Water Resources)

5. SCHOOL OF SCIENCES (SOS)

Doctor of Philosophy (Ph.D), Master of Technology (M.Tech.) and Postgraduate Diploma (PGD). Programmes are available in the following options:

(i) Department of Biochemistry

- (a) Enzyme/Food Biochemistry
- (b) Microbial Biochemistry
- (c) Clinical Biochemistry
- (d) Biotechnology

(ii) Department of Biology

- (a) Food Storage Technology
- (b) All aspects of Biology for Ph. D programme (with specialization in Entomology, Parasitology, Storage Microbiology, Food Storage, Genetics etc)

(iii) Department of Microbiology

- (a) Food Microbiology
- (b) Environmental Microbiology
- (c) Medical Microbiology
- (d) All aspects of Microbiology for Ph. D programme

(iv) Department of Chemistry

- (a) Analytical Chemistry
- (b) Industrial Chemistry
- (c) All aspects of Chemistry for Ph. D. programme

(v) Department of Mathematical Sciences

- (a) Dynamics of Structure
- (b) Geophysical Fluid Mechanics
- (c) Numerical Methods in ODE
- (d) Algebra
- (e) Statistics
- (f) Fluid Mechanics
- (g) Optimal Control

(vi) Department of Computer Science

- (a) Computer System Architecture
- (b) Expert System
- (c) Artificial Intelligence
- (d) Software Engineering
- (e) Operating System
- (f) Data Communication
- (g) Computer Networks
- (h) Computer Graphics

(vii) Department of Physics

- (a) Condensed Matter Physics
- (b) Electronic Measurements and Instrumentation
- (c) Communication Physics
- (d) Radiation and Health
- (e) Space Physics
- (f) Lower Atmospheric Physics

B. ADMISSION REQUIREMENTS

All candidates must possess five (5) 'O' level credits as required in relevant disciplines but must include English Language and Mathematics.

- (i) Doctor of Philosophy (Ph. D)**
 - (a) A good Masters' degree in the appropriate discipline with a CGPA of 3.50 and / or (60%) minimum average score.
 - (b) Any other qualifications approved by Senate.

- ii) M.Agric.Tech./M.Arch./M.Eng./M.Tech.**
 - (a) A good Bachelors degree of at least Second Class Lower Division of the Federal University of Technology, Akure or other recognized Universities, in the appropriate discipline.
 - (b) Higher National Diploma at Upper Credit level and in addition, the candidate must have a Postgraduate Diploma (at Upper credit level) in the appropriate discipline.
 - (c) Any other qualification adjudged to be equivalent to a good first degree (A minimum of Second Class Lower Division).
 - (d) For M. Arch., a good M. Tech degree or equivalent in Architecture is required.

- iii) Postgraduate Diploma Programmes**

Higher National Diploma at least with Lower Credit level are normally considered for admission.

C. DURATION OF PROGRAMMES

- (i) For Postgraduate Diploma Programmes**
 - (a) Part-time students shall normally be required to spend between eighteen (18) and twenty-four (24) months.

- (ii) For Masters Programmes M.Agric.Tech./ M.Arch./ M.Eng./ M.Tech**
 - (a) Full-time students shall normally be required to spend between eighteen (18) and twenty-four (24) months.
 - (b) Part-time students shall normally be required to spend between twenty-four (24) and forty-eight (48) months.

- (ii) Doctor of Philosophy (Ph.D) Programmes:**
 - (a) Full-time candidates may defend their theses between thirty-six (36) and sixty (60) months,.
 - (b) Part-time candidates shall normally be required to spend between forty-eight (48) and seventy-two (72) months.

Professor Olatunde Arayela,
Ag. Dean, School of Postgraduate Studies.