ENTRY QUALIFICATIONS

NORMAL ENTRY

3 A' Level passes in Mathematics/Additional Mathematics/Mechanical Mathematics/Pure Mathematics, and any two from Physics, Biology, Geography, Statistics, Computer Science, Textile Technology, Engineering Drawing/ Technical Graphics/ Mechanical Technology and Design/ Geometrical and Mechanical Drawing with 5 "O" Level passes including Chemistry/Physical Science, English Language and Mathematics.

SPECIAL ENTRY

Diploma in Polymer Science/ and Engineering or equivalent and two years of relevant working experience.

PROGRAMME STRUCTURE

The B.Eng (Honours) TFE is a full-time programme of study which is structured to be delivered over a period of five years. Each academic year is divided into two semesters with the exception of year 4, which is industrial attachment, running for at least 8months to qualify for assessment.

CAREER PROSPECTS

Polymer Engineers/Technologist

Process Engineers/Technologist

Materials Engineer/Technologist

Quality Assurance Managers

Technical Managers

Production Managers

Plant Managers

Industrial trainers

Business consultants

Techno-preneurs

Research Engineers

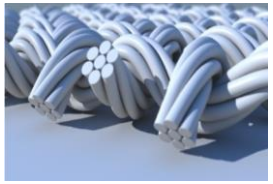
Product Development Engineers

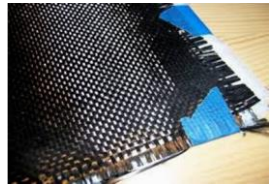
NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

"THINK IN OTHER TERMS"

FACULTY OF ENGINEERING

DEPARTMENT OF FIBRE AND POLYMER MATERIALS ENGINEERING





BACHELOR OF ENGINEERING IN FIBRE AND POLYMER MATERIALS ENGINEERING (HONS)

INTRODUCTION

Polymer and Fibre materials engineers play a key role in an increasingly complex technological society by extending the limited supply of materials, improving existing materials, and developing and designing new and superior materials and processes with an awareness of their cost, reliability, safety, and societal/environmental implications. Fibrous and polymeric materials have transformed and continue to transform every aspect of modern living. New and improved materials are an “underpinning technology" - one which can stimulate innovation and continuous product improvement.

PROGRAMME AIM

The aim of this programme is to equip students with specialized knowledge and engineering skills in the field of Fibre and Polymer Materials.

OBJECTIVES

- To train well-educated engineers who have an insight in current research on fibre and polymer materials including the role of materials in sustainable society;
- To impart knowledge on synthesis/ modification, characterization, processing and applications of polymer and fibre-based materials;
- To impart both technical and non-technical skills in the field of Fibre and Polymer engineering;
- To develop students who can bridge the gap between the relevant industries and universities.

STUDY AREAS

The Fibre and Polymer Materials Engineering (TFE) is a BEng degree undergraduate programme which concentrates in the following areas;

Polymer Physics & Chemistry
Polymer Engineering
Plastics
Rubber products & Applications
Polymer recycling
Structural and Functional materials
Biomaterials
Textile materials
Fibrous materials
Composite materials
Nano-Materials
Ceramics
Paper and Pulp
Leather
Colouration of materials
Environmental Protection
Process Control
Engineering Design
CAD/CAM