



DIPLOMA IN MECHANICAL ENGINEERING (N/521/4/0184) 03/25 (MQA/PA13460)

This newly introduced programme is designed to meet the expectations and needs of the industry. One of the main reasons for this new course to be offered was the favourable market survey responses from industries on the employability of diploma graduates from the mechanical engineering field. Mechanical engineering is one of the top in-demand disciplines of engineering due to the graduates being versatile and knowledgeable in many different fields.

The diploma programme is designed to provide students not only with the necessary academic and technical understanding of the related mechanical engineering-related fields but also challenge the students to experience invaluable practical training in the industry. Students are given the opportunity to obtain valuable hands-on experience through lab experiments, group projects and in their final year projects.

Upon completion of this Diploma in Mechanical Engineering programme, students can opt to pursue further studies in the Mechanical Engineering degree programme offered by the Faculty of Engineering and Technology (FET) or to join the workforce in the industry as a qualified diploma graduate. The programme is also recognized by the Engineering Technician Accreditation Council (ETAC) under Board of Engineers Malaysia. Graduates of this programme will qualify to apply for Inspector of Works (IoW) from BEM.

Career Prospects: Mechanical Technician, Manufacturing/Process Engineering Assistant, Equipment Supervisor, Oil & Gas Supervisor, HVAC Supervisor, Energy Engineering Assistant, Automotive Technician, Machine Design Supervisor, Project Engineering Assistant, R&D Technician etc.

PROGRAMME STRUCTURE

Trimester 1	Trimester 2	Trimester 3	Trimester 4
CORE			
<ul style="list-style-type: none"> Algebra & Trigonometry Physics For Engineering Engineering Workshop Technology Engineering Drawing 	<ul style="list-style-type: none"> Calculus Computer Applications 	<ul style="list-style-type: none"> Engineering Mathematics Basic Electrical Technology Chemistry For Engineering 	<ul style="list-style-type: none"> Program Design Engineering Mechanics I: Statics Thermodynamics Materials Science
Trimester 5	Trimester 6	Trimester 7	Trimester 8
CORE			
<ul style="list-style-type: none"> Computer-Aided Drafting Strength of Materials Fluid Mechanics 	<ul style="list-style-type: none"> Final Year Project (Part 1) Project Management Engineering Design Engineering Mechanics II: Dynamics 	<ul style="list-style-type: none"> Industrial Training 	<ul style="list-style-type: none"> Final Year Project (Part 2) Engineering in Society Measurement and Instrumentation Introduction to Industrial Revolution 4.0
ELECTIVE MODULES (Choose 1 Subject)			
<ul style="list-style-type: none"> Introduction To CAD/CAM 	<ul style="list-style-type: none"> Introduction To Quality Management 	<ul style="list-style-type: none"> Introduction To Operations Management 	
UNIVERSITY SUBJECTS AND MATA PELAJARAN UMUM (MPU)			
<ul style="list-style-type: none"> English Business communications in the Digital Age 	<p>MPU U1</p> <ul style="list-style-type: none"> Pengajian Malaysia 2 (for local student) Bahasa Melayu Komunikasi 1 (for international student) <p>MPU U2</p> <ul style="list-style-type: none"> Bahasa Kebangsaan A/Any subjects in U2 (Local) Any subjects in U2 (International) 	<p>MPU U3</p> <ul style="list-style-type: none"> Introduction to Cultural Practices in Malaysia Fundamentals of Islamic Leadership in Malaysia Family and Society in Malaysia 	<p>MPU U4</p> <ul style="list-style-type: none"> Co-Curriculum

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

ENTRY REQUIREMENT

- Pass SPM/O-Level or its equivalent with a minimum of Grade C in at least three (3) subjects inclusive of Mathematics and one Science Technical/Vocational subject and a Pass in English; OR
- Pass UEC with a minimum of Grade B in at least three (3) subjects inclusive of Mathematics and one Science/Technical/Vocational subject and a Pass in English; OR
- Pass STPM or its equivalent with a Pass in Mathematics, English AND one relevant Science/Technical/Vocational subject at the SPM Level or its equivalent; OR
- Recognised Certificate in Engineering/Engineering Technology or its equivalent; *
**One (1) year of relevant experience or a minimum of one (1) trimester of bridging programme is required for recognised related Vocational and Technical/Skills Certificate or its equivalent*

FEELocal: **RM23,000**International: **RM28,750**