



WEEKEND & EVENING CLASSES

BACHELOR OF ENGINEERING TECHNOLOGY (HONS.) IN MECHANICAL DESIGN

ENQUIRIES

UNIVERSITI KUALA LUMPUR
MALAYSIAN SPANISH INSTITUTE
Kulim Hi Tech Park, 09000 Kulim, Kedah, Malaysia

☎ (604) 403 5199 / 5200 📠 (604) 403 5201

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- 1) SYAZRAH ILYANA ABDULLAH
✉ syazrah@unikl.edu.my ☎ (604) 403 5199 / 5200 📞 (6013) 226 9634
- 2) KHALINA KAMARUMTHAM
✉ khalina@unikl.edu.my ☎ (603) 2175 4112 📞 (6016) 441 8463
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+ PROFESSIONAL CERTIFICATE

TRIZ Level 1 and Solidwork Certification

JPT/BPP(R/521/4/0078) 06/19, MQA A 10152
**BACHELOR OF ENGINEERING TECHNOLOGY
(HONS.) IN MECHANICAL DESIGN**
Weekend classes and Online Forum during Weekdays

OVERVIEW

Bachelor of Engineering Technology (Hons.) in Mechanical Design (BET MD) aims to assist graduates to become full fledge Mechanical Design Technologist with the required knowledge and technical skills to serve the industry upon graduating. Besides Mechanical Engineering knowledge, students also will have the advantage of specializing in Mechanical Design. Emphasize will be given on components and systems level design to serve the mechanical, manufacturing, semiconductor, electronics, and also oil and gas industry. Students will be exposed on the required knowledge and skills to produce detail Engineering Design that complies with Engineering Standards on safety, reliability and also environment impact. They will also learn to create design which is highly manufactured able and save cost.

At early stage of the programme, courses are aligned to expose the students to the basic Mechanical / Manufacturing knowledge. In the middle of the programme students will learn Specialized Design Courses which are relevant to the industry. At the end of the programme student will use their design knowledge to create complex design that will be reflected in their Final Year Projects

ENTRY REQUIREMENT

Passed Sijil Tinggi Pelajaran Malaysia (STPM) or equivalent with at least Grade C (CGPA 2.0) in Mathematics and one Science subject in connection with a pass in SPM including in the subjects of English
OR
Passed Diploma (Level 4 kkm) in Engineering / Engineering Technology related or equivalent with a minimum CGPA of 2.00 and a pass in English at SPM
OR
Passed Diploma (Level 4 KKM) in the field of vocational and technical / skill associated with at least a CGPA of 2.00 and a pass in English at SPM
OR
Graduated UNIKL Foundation in Science and Technology / Matriculation / Foundation / Foundation with a CGPA of 2.00 and a pass in English at SPM
OR
Pass Sijil Tinggi Agama Malaysia (STAM) or equivalent with a minimum grade of Jayyid and pass SPM or equivalent with at least a credit in Mathematics and one Science subject in connection with a pass in English
OR
Graduated International Baccalaureate (IB) with at least 24/25 marks including Mathematics and one Science subject related

Other qualifications recognized by the Malaysian Government
HAVE A UNIVERSITY QUALIFICATION EXAMINATION ENGLISH TEST (MUET) AT LEAST BAND 2 OR
HAVING AT LEAST MINIMUM IELTS BAND 5.0 OR
HAVE MINIMUM SCORES AT LEAST TOEFL 500

FUNDING OPTIONS

HRDF Claimable

**subject to company levy contribution*

EPF WITHDRAWAL

PTPTN

**subject to PTPTN approval*

CREDIT CARD

MODULES OFFERED

SEMESTER 1

Fundamental English
Professional English 1
Engineering Mathematics 1
Technopreneurship
Tamadun Islam & Tamadun Asia (TITAS) (Local Students)
Pengajian Malaysia 3 (International Students)

SEMESTER 2

Hubungan Etnik / Pengajian Malaysia 3**
Innovation Management
Engineering Mechanics
Engineering Drawing
Manufacturing Technology

SEMESTER 3

Electrical & Electronics Laboratories
Fundamentals of Materials Science
Electric Circuit Analysis
Workshop Technology
Engineering Mathematics 2

SEMESTER 4

Strength of Materials
Isu-Isu Kontemporari Muslim Di Malaysia / Culture and Lifestyle In Malaysia***
Co-Curriculum (9 Options)
Computer Aided Design & Modeling
Thermal Science

SEMESTER 5

Ergonomics and Human Factors
Engineering Materials
Fluid Mechanics
Professional English 2
Engineering Design Process

SEMESTER 6

Design for Plastics & Elastomer
Finite Element Application
Computer Programming

*credit transfer or exemption based on prior learning

SEMESTER 7

Vibration and Noise
CAD/CAM Rapid Prototyping
Machine Component Design
Pneumatic & Hydraulic Systems

SEMESTER 8

Design for Sheet Metal Forming
Metrology
Mandarin 1 / Spanish 1
Elective 1
Control Systems

SEMESTER 9

Final Year Project 1*
Machine & Mechanism Design
Industrial Safety & Health
Applied Statistics
Mandarin 2 / Spanish 2
Elective 2

SEMESTER 10

Elective 3
Professional Engineering Practice and Ethics
Quality Engineering
Final Year Project 2*

SEMESTER 11

Industrial Training

ELECTIVES

*Applied Computational Fluid Dynamics
Heat Exchanger Design
Introduction to Oil and Gas Industry
CNC Technology
Automotive Design Engineering
Automotive Structure
Applied Control Systems
Object Oriented Programming
Microcontroller and Interfacing*

