



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

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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**MOHE/ MQA
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Accredited**

+ PROFESSIONAL CERTIFICATE

TRIZ Level 1 and Solidwork Certification

JPT/BPP (N/521/6/0126) 12/20, MQA PA 7648
**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

OR

Passed Diploma or Higher National Diploma (HND) UK (Level 4 KKM) in Engineering / Engineering Technology related or equivalent with a minimum CGPA of 2.00

OR

Passed Diploma (Level 4 KKM) in the field of vocational and technical / skill associated with at least a CGPA of 2.00

OR

Graduated UniKL Foundation in Science and Technology / Matriculation / Foundation with at least a CGPA of 2.00

OR

Passed Sijil Tinggi Agama Malaysia (STAM) or equivalent with a minimum grade of Janyid and passed SPM or equivalent with at least a credit in Mathematics and one Science subject

OR

Graduated International Baccalaureate (IB) with at least 24/45 marks including Mathematics and one Science subject related.

FUNDING OPTIONS

HRDF Claimable

**subject to company levy contribution*

EPF WITHDRAWAL

PTPTN

**subject to PTPTN approval*

CREDIT CARD

COURSES OFFERED

SEMESTER 1

Fundamental English
Professional English 1
Engineering Mathematics 1
Tamadun Islam & Tamadun Asia (TITAS) /
Bahasa Melayu Komunikasi 2 (I)
Technopreneurship

INTER-SEMESTER

Engineering Mechanics
Manufacturing Technology

SEMESTER 2

Hubungan Etnik / Pengajian Malaysia 3
Innovation Management
Engineering Drawing
Strength of Materials
Electrical & Electronics Laboratories
Electric Circuit Analysis
Workshop Technology

SEMESTER 3

Isu-isu Kontemporari Muslim di Malaysia /
Culture and Lifestyle in Malaysia
Engineering Mathematics 2
Computer Aided Design & Modeling
Fundamentals of Materials Science
Thermal Science
Ergonomics and Human Factors

SEMESTER 4

Co-Curriculum**
Fluid Mechanics
Engineering Design Process
Design for Plastics & Elastomer
Finite Element Application
Engineering Materials
Computer Programming

SEMESTER 5

Professional English 2
Vibration and Noise
CAD/CAM Rapid Prototyping
Machine Component Design
Pneumatic & Hydraulic Systems
Design for Sheet Metal Forming
Metrology

SEMESTER 6

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

SEMESTER 7

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

SEMESTER 8

Industrial Training

ADDITIONAL MODULE

Bahasa Kebangsaan A

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

CO-CURRICULUM**

Career Guidance 2
Community Service 2
Culture 2
Rakan Masjid 2
Siswa-siswi Bomba & Penyelamat 2
Siswa-siswi Pertahanan Awam 2
Sports Management 2
Personal Financial Management 2
Askar Wataniah

*credit transfer or exemption based on prior learning

