



UniKL
UNIVERSITI
KUALA LUMPUR

(570132-T)

FLEXILEARN

WEEKEND & EVENING CLASSES

**MOHE / MQA
Approved &
Accredited**



JPT/BPP (R/521/6/0029) 05/22, MQA/FA 1625

BACHELOR OF ENGINEERING WITH HONOURS IN MECHANICAL



OVERVIEW

The programme aims to provide students with an excellent foundation in the core technical competencies of the discipline: thermal and fluid sciences, solid mechanics and materials and dynamics and control. Built upon these strengths is a very strong focus on application of these technical abilities through our design and manufacturing project oriented courses.

FINANCIAL ASSISTANT

HRDF Claimable
**subject to company levy contribution*

EPF WITHDRAWAL

PTPTN
**subject to PTPTN approval*

CREDIT CARD

ENTRY REQUIREMENT

- Passed Sijil Tinggi Pelajaran Malaysia (STPM) with at least 2.5 CGPA, with at least Grade B- (2.67) in subjects Mathematics and Physical Science
OR
- Passed A-level with at least Grade C in subjects Mathematics and Physical Science
OR
- Passed International Baccalaureate Diploma (IBD) with 24 points and obtained at least 4 points in subjects Mathematics and Physical Science
OR
- Passed Matriculation/ Asasi Sains/ Foundation in Science and Technology or Equivalence with at least 2.5 CGPA, with at least Grade B- (2.67) in Mathematics and Physical Science
OR
- Obtained a Diploma (MQF level 4) in field related to Mechanical Engineering Technology/ Mechanical Engineering from recognized IHL with CGPA of at least 2.50.
OR
- Obtained a Diploma (MQF level 4) in field related to Mechanical Engineering Technology/ Mechanical Engineering with CGPA of at least 2.00 from recognized IHL with at least two years working experience in mechanical engineering technology/ mechanical engineering related field
OR
- Passed Australian Year 12 with at least obtained 60 % of maximum qualification value included with subjects Mathematics and Physical Science
OR
- Passed Cambodian Year 12 with at least obtained 60 % of maximum qualification value included with subjects Mathematics and Physical Science
OR
- Passed Canadian Grade 12 with at least obtained 60 % of maximum qualification value included with subjects Mathematics and Physical Science
OR
- Passed Vietnamese Upper Secondary (Grade 12) with at least obtained 60 % of maximum qualification value included with subjects Mathematics and Physical Science
OR
- Any equivalence qualification that recognized by Malaysian Government
AND
- Passed Sijil Pelajaran Malaysia (SPM) or equivalent with credit in Mathematics
AND
- Do not have health problems that may affect studies

PROGRAMME STRUCTURE

SEMESTER 1

MPU 3113 / MPU 3173 Hubungan Etnik/ Pengajian Malaysia 3**
NCB 10103 Mathematics for Engineers 1
NCB 10202 Engineering Practice & Professionalism
NMB 10203 Materials Engineering
NMB 12103 Engineering Drawing and CAD
WEB 10302 Fundamental English

SEMESTER 3

NMB 20203 Mathematics for Engineers 3
NMB 21104 Solid Mechanics
NMB 21303 Thermodynamics 1
NMB 22203 Design 1
WEB 20302 Professional English 2
W*D 10*01 Language Elective 2 (French 2/ Mandarin 2/ Etc)

SEMESTER 5

MPU 3333/ 3343 Isu-isu Kontemporari Muslim di Malaysia/ Culture and Lifestyle in Malaysia
MPU 34*2 Co-curriculum 2
NMB 20102 Electronics Engineering
NMB 31103 Fluid Mechanics 2
NMB 31203 Heat and Mass Transfer
NMB 32203 Design 2

SEMESTER 7

NCB 20203 Statistics for Engineers
NCB 49802 Engineering Final Year Project 1
NMB 30103 Numerical Methods for Engineers
NMB 43103 Design 3
NMB 4***3 Elective 1
WBB 10202 Innovation Management

SHORT SEMESTER

Industrial Training

*credit transfer or exemption based on prior learning

SEMESTER 2

NCB 10303 Mathematics for Engineers 2
NCB 20103 Computer Programming for Engineers
NMB 10102 Electrical Engineering
NMB 11103 Engineering Mechanics 1
NMB 13102 Metrology & Engineering Workshop
W*D 10*01 Language Elective 1 (French 1/ Mandarin 1/ Etc)
WEB 20202 Professional English 1

SEMESTER 4

MPU 3123 / MPU 3143 Tamadun Islam & Tamadun Asia (TITAS) / Bahasa Malaysia Komunikasi 2**
NMB 21203 Fluid Mechanics 1
NMB 21404 Engineering Mechanics 2
NMB 23103 Manufacturing Processes
NMB 31403 Thermodynamics 2

SEMESTER 6

MPU 3232 Technopreneurship
NCB 30102 Industrial Safety and Health
NMB 31303 Noise and Vibrations
NMB 32103 Computer Aided Engineering Analysis
NMB 34103 Measurement and Instrumentation Systems
NMB 34203 Control Systems

SEMESTER 8

NCB 40102 Engineers in Society
NCB 49904 Engineering Final Year Project 2
NMB 40103 Project and Industrial Management
NMB 4***3 Elective 2
NMB 4***3 Elective 3

NOTE :

Elective Subjects

NMB 46103 CNC and CAD/CAM Technology
NMB 46203 Industrial Automation and Robotics
NMB 46303 Quality Engineering
NMB 47103 Engine Performance And Emissions
NMB 47203 Vehicle Dynamics
NMB 47303 Internal Combustion Engines
NMB 48103 Air-Conditioning Equipments and Systems
NMB 48203 Conditioning of Air
NMB 48303 Production of Refrigeration
NMB 49303 Corrosion
NMB 49103 Failure Analysis
NMB 49203 Non-Destructive Testing

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