



**UniKL**  
UNIVERSITI  
KUALA LUMPUR

# FLEXILEARN

WEEKEND & EVENING CLASSES

MOHE/ MQA  
Approved &  
Accredited

JPT/BPP (R2/540/6/0010) 04/23, MQA A8783

## BACHELOR OF ENGINEERING TECHNOLOGY (HONS.) IN MANUFACTURING SYSTEMS





# OVERVIEW

Manufacturing Systems Engineering (MSE) programme focuses on system-approach to manufacturing and designing/planning of future industry requirements. It emphasises the relationships between product design requirements, manufacturing processes and systems, taking into account human, economics and environmental factors. The students are equipped with the knowledge and skills in mathematics, science and manufacturing processes and systems engineering. At the end of the programme, MSE graduates are expected to be able to apply knowledge and skills in planning, controlling, implementing, analysing, and improving manufacturing systems or related problems.

**FINANCIAL ASSISTANT**

**HRDF Claimable**  
*\*subject to company levy contribution*

**EPF WITHDRAWAL**

**PTPTN**  
*\*subject to PTPTN approval*

**CREDIT CARD**

## + PROFESSIONAL MEMBERSHIP

1. Certification Quality Improvement Professional (CQIP)
2. Six Sigma – Yellow Belt

## ENTRY REQUIREMENT

Pass a recognised Diploma in Engineering / Engineering Technology or equivalence with minimum CGPA 2.0. Or, pass a recognised Diploma in related field with minimum CGPA 2.0 and Pass English in SPM

OR

Pass STAM with minimum grade of 'Jayyid' and pass SPM with minimum 2 credits including Mathematics and one of Science/Technical/Vocational subject and pass in English

OR

Pass STPM with a minimum of grade C in 3 subjects including Mathematics, a Science subject and other subject and pass SPM with at least pass in English

OR

Pass International Baccalaureate (IB) with minimum score of 24/25 points from 6 subjects including one of science subjects

OR

Pass Matriculation/Foundation/Asasi with a minimum CGPA of 2.0 including Mathematics & Science Physical and pass English in SPM or equivalent or, pass Foundation in Science & Technology (FiST) or Foundation in Science (FiS) with minimum CGPA 2.0

OR

Malaysian University English Test (MUET) minimum Band 2 or International English Language Testing System (IELTS) minimum band 5.0 or Test of English as a Foreign Language (TOEFL) with minimum 500 score. (MUET/IELTS/TOEFL results will be excluded for the students who are coming from Institutions which English is the medium of instruction or, other qualification recognised by Government of Malaysia /UniKL University senate.

## PROGRAMME STRUCTURE

### SEMESTER 1

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

### SEMESTER 2

Engineering Sciences  
Engineering Mathematics 2  
Engineering Drawing  
Product Design  
Metrology And Workshop Practice  
Information Technology

### SEMESTER 3

Electrical And Electronics Fundamentals  
Industrial Automation And Robotics  
Manufacturing Technology  
Production And Operations Management  
Materials Engineering  
Mechanics Of Materials  
Mandarin 1

### SEMESTER 4

Hubungan Etnik  
Pengajian Malaysia 3  
Engineering Economic  
CAD/CAM And CNC  
Design For Manufacture And Assembly  
Applied Statistics  
Thermofluids  
Mandarin 2

### SEMESTER 5

Isu-Isu Kontemporari Muslim Di Malaysia  
Culture And Lifestyle In Malaysia  
Manufacturing Optimization  
Quality Engineering  
Engineering Mechanics: Dynamics  
Innovation Management  
Professional English 2  
Elective 1

### SEMESTER 6

Six Sigma Methodology  
Production System And Simulation  
Inspection And Measurement Technology  
Project Management  
Final Year Project 1 (FYP1)  
Elective 2

### SEMESTER 7

Co-Curriculum  
Lean And Agile Manufacturing  
Maintenance And Reliability Systems  
Technologist In Society  
Final Year Project 2 (FYP2)  
Elective 3

### SEMESTER 8

Industrial Training

### Elective Subjects

Computer Programming  
Solid Modeling  
Surface Modeling  
Advanced Product Design  
Non-Traditional Machining  
Geometrical Dimensional And Tolerance  
Electrocoating And Deposition Processes


### 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

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