FLEXI LEARN
WEEKEND & EVENING CLASSES

MOHE/ MQA Approved & Accredited

JPT/BPP (R2/540/6/0010) 04/23, MQAA8783

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.

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 'Jayid' 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.

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

PROGRAMME STRUCTURE

SEMESTER 1
- Tamanun 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 Etik
- Pengajian Malaysia 3
- Engineering Economic
- CAD/CAM And CNC
- Design For Manufacture And Assembly
- Applied Statistics
- Thermofluids
- Mandarin 2

SEMESTER 5
- Isu-Isu Kontempori 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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