UniKL **AWARD & RECOGNITION**

QS Asia Ranking TOP 300 2020

MyRA Most Improved University 2020

Top Islamic Finance Institution WORLD NO. 6 2020

TOP 10 Time Higher Education World University Rankings Malaysia 2021

Malaysia Hockey League CHAMPIONS 2018, 2019, 2020

PUTRA BRAND Award 2016, 2018, 2019, 2020

SUPERBRAND Status 2018

BRAND LAUREATE 2016, 2017, 2018

Frost and Sullivan Asia Pacific Award 2016, 2017, 2018

FINANCIAL **ASSISTANCE**

- **MARA Loan**
- **HRDF Claimable**
- **EPF Withdrawal**
- **PTPTN**

**** Subject to Terms & Conditions***

Universiti Kuala Lumpur-DU011 (W)

FLEXILEARN

WEEKEND & EVENING CLASSES

EARN HIGHER QUALIFICATION WITHOUT QUITTING YOUR JOB NOW !

Approved and Accredited by MOHE & MQA

Accredited by ETAC

UNIVERSITI KUALA LUMPUR
KAMPUS CAWANGAN MALAYSIA ITALY DESIGN INSTITUTE
119, Jalan 7/91, Taman Shamelin Perkasa, 56100 Kuala Lumpur

(603) 9179 5000 (603) 9179 5001

1) NOR HUDAH BASRI
norhudah@unikl.edu.my (603) 9179 5015 (6013) 290 6343

2) SITI AQILAH BINTI MOHD ROZI
sitiaqilah@unikl.edu.my (603) 9179 5030 (6017) 698 4002

FOLLOW US FOR MORE INFORMATION

www.unikl.edu.my @uniklofficial

Universiti Kuala Lumpur - Officialpage

JPT/BPP (R2/540/6/0010) 04/23, MQA/FA11168

BACHELOR OF ENGINEERING TECHNOLOGY (MANUFACTURING SYSTEMS) WITH HONOURS

OVERVIEW

The Manufacturing Systems Engineering (MSE) programme focuses on system-approach to manufacturing and designing/planning for future requirements. It emphasizes the relationships between product design requirements, manufacturing processes and systems, taking into account human, economics and environmental factors. At the end of the programme, students of MSE are expected to:

- Apply basic knowledge and skills in mathematics, science and engineering to solve problems in manufacturing processes and systems.
- Design, plan and control, implement, analyze and improve manufacturing processes and systems with appropriate considerations to human, economics and environmental factors.
- Apply computer and automation technologies to manufacturing processes and systems.
- Acquire skills in technopreneurship, problem-solving, communication, leadership and teamwork.

FLEXIBLE LEARNING

Offering flexibility to cater to your schedule, so that you can pursue additional knowledge without interfering with your work schedule.

UniKL offers the flexibility to cater to your work schedule and provide you with the opportunity to enhance your skills whilst not compromising your work time. This workaround learning schedule is the main reason many professionals choose to enter UniKL's FlexiLearn programmes. Selected Professional Certificates can be embedded into the programmes as well. Furthermore, prior academic qualifications and working experience may be taken into consideration for syllabus exemptions.

APEL

Accreditation of Prior Experiential Learning

APEL (Accreditation of Prior Experiential Learning) is a systematic process which involves the IDENTIFICATION, DOCUMENTATION, and ASSESSMENT of prior experience related to a study programme.

APEL is a systematic process that involves the identification, documentation and assessment of prior experiential learning, i.e. knowledge, skills and attitudes, to determine the extent to which an individual has achieved the desired learning outcomes, for access to a programme of study and/or award of credits.

PROFESSIONAL CERTIFICATES

- **Certified Quality Improvement Professional (CQIP)**
- **Six Sigma – Yellow Belt**

ENTRY REQUIREMENT

- Minimum **MUET Band 2** or **IELTS 5.0** or Equivalent.
- **Pass Sijil Tinggi Persekolahan Malaysia (STPM) / Matriculation** or equivalent with minimum Grade C (CGPA 2.0) in Mathematics and ONE (1) relevant science subject
- OR
- **Recognised Diploma in Engineering or Engineering Technology** or equivalent with minimum CGPA 2.0
- OR
- **Recognised related Technical / Vocational / Skills Diploma** with minimum CGPA 2.0
- **Pass A-level** with minimum Grade D in Mathematics and ONE (1) relevant science subject.
- **STAM with minimum Jayyid minimum Grade C (CGPA 2.0)** in Mathematics and ONE (1) relevant science subject or equivalent.
- **Pass in International Baccalaureate (IB)** with at least 24 points.
- **Pass Higher National Diploma (HND) UK (MQF Level 4)** in related area and recognized by government of Malaysia and according to approval by UniKL Senate.
- **Qualification of 12 years of schooling** with the following conditions:
  - It is the highest school qualification in the country of origin;
  - It can be used as entry qualification for bachelor's degree programme in the country of origin.
- **MUET Band 2** as requirement to graduate and need to be stated in conditional offer letter.
- **Campuses need to ensure students to obtain MUET Band 2 prior to graduation.**

PROGRAMME STRUCTURE

SEMESTER 1
- Tamadun Islam & Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi 2
- Isu-isu Kontemporari Muslim di Malaysia / Culture and Lifestyle in Malaysia
- 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
- Foreign Language 1

SEMESTER 4
- Hubungan Etnik / Pengajian Malaysia 3
- Engineering Economic
- CADCAM and CNC
- Design For Manufacture and Assembly
- Applied Statistics
- Thermofluids
- Foreign Language 2

SEMESTER 5
- Technopreneurship
- Quality Engineering
- Manufacturing Optimization
- Professional English 2
- Engineering Mechanics: Dynamics
- Co-Curriculum
- Elective 1

SEMESTER 6
- Production System and Simulation
- Six Sigma Methodology
- Inspection and Measurement Technology
- Final Year Project 1 (FYP1)
- Elective 2
- Project Management

SEMESTER 7
- Innovation Management
- Lean and Agile Manufacturing
- Maintenance and Reliability Systems
- Technologist In Society
- Final Year Project 2 (FYP2)
- Elective 3

SEMESTER 8
- Industrial Training

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

*** the duration of the programme will be based in the actual credit transfer and number of courses taken by student on every semester.**