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)

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JPT/BPP (N/521/6/0126) 06/21, MQA/FA 7648

BACHELOR OF ENGINEERING TECHNOLOGY (HONS.) IN

MECHANICAL DESIGN

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.

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 CERTIFICATE

- TRIZ Level 1
- Solidwork Certification

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 Jayyid 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.

PROGRAMME STRUCTURE

SEMESTER 1
- Fundamental English
- Professional English 1
- Engineering Mathematics 1
- Tamadun Islam & Tamadun Asia (TITAS) (L) / Bahasa Melayu Komunikasi 2 (I)
- Innovation Management
- Hubungan Etnik (L) / Pengajian Malaysia 3 (I)
- Electric Circuit Analysis

SEMESTER 2
- Isu-isu Kontemporari Muslim di Malaysia / Culture and Lifestyle in Malaysia 2
- Co-Curriculum (9 Options)
- Engineering Mathematics 2
- Engineering Mechanics
- Fundamentals of Materials Science
- Computer Programming

SEMESTER 3
- Engineering Drawing & CAD
- Manufacturing Technology
- Workshop Technology
- Electrical & Electronics Laboratories
- Strength of Materials
- Fluid Mechanics
- Ergonomics and Human Factors

SEMESTER 4
- Technopreneurship
- Professional English 2
- Engineering Design Process
- Machine Component Design
- Thermal Science
- Design for Plastics & Elastomer
- Engineering Materials

SEMESTER 5
- Mandarin 1 / Spanish 1
- Control Systems
- Internet of Things (IoT) Technology
- Pneumatic & Hydraulic Systems
- Finite Element Application
- CAD / CAM Rapid Prototyping
- Design for Sheet Metal Forming

SEMESTER 6
- Mandarin 2 / Spanish 2
- Metrology
- Vibration and Noise
- Machine & Mechanism Design
- Elective 1*
- Elective 2*
- Final Year Project 1

SEMESTER 7
- Applied Statistics
- Professional Engineering Practice and Ethics
- Quality Engineering
- Industrial Safety & Health
- Elective 3*
- Final Year Project 2
- Bahasa Kebangsaan A** (Additional Course)

SEMESTER 8
- Industrial Training

ELECTIVES*
- Applied Computational Fluid Dynamics
- Heat Exchanger Design
- Introduction to Oil and Gas Industry
- CNC Technology
- Automotive Design Engineering
- Automotive Structure
- Electric Machine Fundamentals
- Introduction to Robotics

CO-CURRICULUM**
- Career Guidance 2
- Community Service 2
- Culture 2
- Rakan Masjid 2
- Siswa-siswi Bomba & Penyelamat 2
- Sports Management 2
- Personal Financial Management 2
- Kor Siswa-Siswi Pertahanan Awam 2
- Askar Wataniah
- Integriti & Anti Rasuah
- Huffaz Professional 2

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