

UniKL AWARD & RECOGNITION



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FINANCIAL ASSISTANCE

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MARA Loan



HRDF Claimable



EPF Withdrawal



PTPTN

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BACHELOR OF ENGINEERING TECHNOLOGY (HONS.) IN APPLIED ELECTRONICS

OVERVIEW

Bachelor of Engineering Technology (Hons.) in Applied Electronics (BET AE) course are developed with the intention of providing a platform for individuals to have theoretical and practical skills required by the semiconductor and industrial electronic sectors. This program which is a cross-disciplinary field provides students with knowledge in radio frequency wireless technology, semiconductor, electrical, electronic devices, control system and instrumentation, automation, mechanical, manufacturing process and project management. These are some of the necessary fields required for the electronics industry.

Additionally, students will also be exposed to entrepreneurial skills that will help them developed their own business in future time. This is done by embedding entrepreneur elements in the courses of this programme.

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

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

- Applied Electronics Laboratory
- Semiconductor Technology
- Digital Electronics
- Analog Circuit Application 1
- Introduction to VLSI and Fabrication
- Electronic Devices
- Sensor Technology

SEMESTER 4

- Technopreneurship
- Professional English 2
- Analog Circuit Application 2
- Applied Digital Electronics
- Electronic Instrumentation
- Signals and Systems
- Object Oriented Programming

SEMESTER 5

- Mandarin 1 / Spanish 1
- Control Systems
- Internet of Thing (IoT) Technology
- Engineering Electromagnetics
- PCB Design
- Telecommunication System
- Analog IC Design and Verification

SEMESTER 6

- Mandarin 2 / Spanish 2
- Digital Signal Processing
- Microcontroller and Interfacing
- Electric Machine Fundamentals
- Elective 1*
- Elective 2*
- Final Year Project 1

SEMESTER 7

- Applied Statistics
- Professional Engineering Practice and Ethics
- Quality Engineering
- Digital Control Systems
- Elective 3*
- Final Year Project 2
- Bahasa Kebangsaan A** (Additional Course)

SEMESTER 8

- Industrial Training

ELECTIVES*

- Industrial Safety & Health
- RF / Microwave Circuits & Systems
- RFIC Design for Wireless Communication
- Power Electronics and Drive
- Advanced Digital Design and FPGA
- Artificial Intelligence

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.

