

MASTER OF ENGINEERING BY TAUGHT COURSE

Degrees granted:

M. Eng. (Computer and Microelectronic Systems) - [Program code MKEH]

M. Eng. (Mechatronics and Automatic Control) - [Program code MKEM]

M. Eng. (Electrical Power) - [Program code MKEP]

M. Eng. (Wireless Communication and Network) - [Program code MKET]

School of Electrical Engineering (SKE) offers Master program by taught course that provides students to study in one of our five specialized Masters programs. At SKE, we offer a range of specialized courses founded on a unified philosophy of engineering teaching, which ensures the breadth of technical knowledge demanded of a professional engineer. Our curricular are in-line with industry needs.

Mode of Study:

Graduate students can pursue an on-campus or off-campus taught course program. On-campus taught course programs are offered at UTM's main campus in Johor Bahru. Select off-campus programs are available at the UTM Kuala Lumpur campus or other centres.

- **On-campus (PERDANA):** The on-campus study requires a minimum duration of 1.5 years (three semesters). The student may register a maximum of twenty (20) credits in the normal semester and maximum of ten (10) credits in short semester. The class sessions take place during weekdays. International students on study visa can only register for this mode of study.
- **Off-campus (PESISIR):** Off-campus study normally takes 2 years (4 normal semesters and one 8-week short semester) to complete. The student may register a maximum of twelve (12) credits in the normal semester and maximum of six (6) credits in short semester. Classes are scheduled on weekends to suit working professionals. Expatriates on working visa and permanent residents may register in this mode of study.

Teaching Methods: A taught module takes the following forms: formal lectures, tutorials, assignment and/or laboratory work as well as industrial exposure. Each 3-credit module is delivered in 42 hours of lectures. Teaching/learning is student-centered; hence it should be complemented with adequate self-study and self-learning by the students.

Assessment and Grading: Students' progress is assessed (continuously) throughout the semester by a coursework assessment component and a final examination for each module. The coursework component may consist of set written assignments, practical work/lab assignments, and short tests. Passing mark for each taught module is 60% or equivalent to B-. Any failed core course must be repeated with that same course, while failed elective course can be replaced with another elective course approved by the Postgraduate office.

Students must obtain at least 2.67 *cumulative grade point average* (CGPA) or

equivalently a B- average for each semester to continue the study. For a Masters degree to be awarded, candidates must complete a minimum of 43 credits and achieve a final CGPA ≥ 3.00 . Table IV in the appendix shows the academic standing and students' status.

Students may also register a course under *HS* (attendance only). In order for this module to appear in the transcript, students' attendance must be at least 80% and fulfill other coursework requirements.

Master Project: Students must undertake a 10-credit master's project. This 1 year (2-semester) project will be supervised by a graduate faculty member of FKE. Towards the end of the 1st semester, students will defend their project proposal. At the end of the project in the second semester, students must defend their Masters project and a comprehensive project report must be submitted. The Masters project could be industry-related although must still meet academic requirements, defined by the academic supervisor. An industry co-supervisor may be appointed from persons with appropriate academic standing or experience, subject to approval of the Faculty's Academic Committee.

OFF-CAMPUS (PESISIR) MODE OF STUDY

Our off-campus programs offer flexible solutions for working engineers and professionals to advance their career through our industry-driven curricula. All of our Masters programs are accredited by the Malaysian Qualification Agency (MQA).

Classes taught by Universiti Teknologi Malaysia faculty members at our PESISIR centres. The fees are affordable and competitive. Our PESISIR program can be completed within 2 years (four normal semesters and one short semester). Classes are conducted on Saturday and Sunday at all study centres.

- **Johor Bahru** : Universiti Teknologi Malaysia Main Campus
- **Kuala Lumpur** : Universiti Teknologi Malaysia City Campus
- **Pulau Pinang** : Penang Skills Development Centre
- **Kuching** : Technology College Sarawak

Programs	Study Centers			
	Johor Bahru	Kuala Lumpur	Pulau Pinang	Kuching
MKEH	–	–	MKEHA1BPA	–
MKEL	MKELA1BJA	MKELA1BKA	–	–
MKEM	–	MKEMA1BKA	–	–
MKEP	MKEPA1BJA	MKEPA1BKA	–	MKEPA1BQA

* Other programs may be offered in other centres depending on demand.

General Information

1. Awarding Institution	Universiti Teknologi Malaysia			
2. Teaching Institution	Universiti Teknologi Malaysia			
3. Programme Name	Master in Electrical Engineering			
4. Final Award	Master of Engineering (Computer and Microelectronic Systems)			
	Master of Engineering (Mechatronics and Automatic Control)			
	Master of Engineering (Electrical Power)			
	Master of Engineering (Wireless Communication and Network)			
5. Programme Code	MKEH/MKEM/MKEP/MKET			
6. Professional or Statutory Body of Accreditation	Kementerian Pendidikan Malaysia			
7. Language(s) of Instruction	English and Bahasa Melayu			
8. Mode of Study (Conventional, distance learning, etc)	Conventional			
9. Mode of operation (Franchise, self-govern, etc)	Self-governing			
10. Study Scheme (On-campus/Off-campus)	On-Campus/Off-Campus			
11. Study Duration	Minimum : 1.5 yrs Maximum : 4 yrs			
Type of Semester	No. of Semesters		No of Weeks/Semester	
	Full Time	Part Time	Full Time	Part Time
Normal	3	4	14	14
Short	0	1	8	8

Course Classification

No	Classification	Credit Hours	Percentage
i.	University Courses a. Non- technical subject b. Introduction to Research Methodology in Electrical Engineering c. Co-Curriculum	3 3	14%
ii.	Programme Core (MKEH,MKEM,MKEP) / (MKET)	12 / 15	27.9% / 34.9%
iii.	Programme Electives (MKEH,MKEM,MKEP) / (MKET)	12 / 9	27.9% / 20.9%
iv.	Master Project	10	23.2%
v.	Free Elective Course	3	7%
	Total Credit Hours	43	100%
Total Credit Hours to Graduate		43 credit hours	