



MASTER OF SCIENCE IN ELECTRICAL AND ELECTRONIC ENGINEERING

[N/0713/7/0013]04/29 [MQA/PA 15031]

DURATION OF STUDY

Full-time: Minimum 2 years
Part-time: Minimum 3 years

INTAKE

February, April,
September yearly

MEDIUM OF INSTRUCTION

English

ANNUAL FEE

RM 22,500 (Local) RM 30,000* (International)

*Fees subject to 6% Sales & Service Tax (SST).

ABOUT THE PROGRAMME

From electric vehicles and renewable energy to intelligent robotics and smart devices, Electrical and Electronic Engineering (EEE) is one of the fastest growing engineering branches that underpins the technological advancements of today and tomorrow. With ever growing attention and investment from policy makers, EEE has become a crucial and pivoting sector behind the stages of local and global industrial revolutions.

The Master of Science in Electrical and Electronic Engineering at Xiamen University Malaysia (XMUM) aims to help students in becoming professionals with profound ability to spearhead and facilitate the development in the electrical and electronic sectors on the national and international fronts. This programme is offered under the School of Artificial Intelligence and Robotics (SAIR) of XMUM. The school has established extensive ties through academic exchange and cooperation with many world renowned universities and well-established enterprises, ensuring a good handshake of technological advancements worldwide. With a strong link to the local and international industries, the school ensures that all staff are at the forefront of their own discipline and have an up-to-date appreciation of state-of-the-art technology developments and research directions. In addition to the strong support from XMU, the Master of Science in Electrical and Electronic Engineering programme at XMUM will also benefit from the intensive research activities conducted in-campus and off-campus in various sub-fields, such as intelligent robotics, renewable energy, power, artificial intelligence, Internet of Things (IoT), smart manufacturing, and advanced electronics, most of which are highly industry-related.

Besides the profound knowledge on EEE, this programme is also focused on instilling skillsets found crucial across the fields of EEE today, including cognitive skills, practical skills, digital skills, numerical skills, personal and interpersonal skills, entrepreneurial skills, leadership skills, ethics and professionalism. Switch on your career in electrical and electronic engineering at Xiamen University Malaysia now. Let the quest for engineering knowledge begins here for a brighter tomorrow.

PROGRAMME HIGHLIGHTS

- A comprehensive programme encompassing popular sections in electrical and electronic engineering, with flexibility in choosing the area of specialty.
- An excellent team of faculty members from renowned universities all over the world.
- A stimulating teaching-and-learning environment with ideal integration of practical learning and theoretical understanding.
- A wide range of research activities to help transform our students into highly-skilled, well-rounded professionals for industries.
- Good access to excellent educational resources of XMU.
- A seamless pathway to EEE doctorate programme at XMUM or other renowned institutions worldwide.

CAREER OPPORTUNITIES

This programme opens the doors to various career opportunities across multiple sectors in the industry worldwide, including:

- Energy and Power Sector
- Robotics Sector
- Artificial Intelligence Sector
- Automotive Sector
- Manufacturing Sector
- Telecommunication Sector
- Semiconductor and IC design sector
- Research/R&D Sector
- Academic Sector
- Other Electrical and Electronic Related Sectors



ENTRY REQUIREMENTS **For other equivalent qualifications, please consult our programme counsellor*

- A bachelor's degree in Engineering with a minimum CGPA of 2.50 or the equivalent
- A bachelor's degree in relevant fields with CGPA above 2.00 but below 2.50, can be accepted subject to rigorous internal assessment.
- For other equivalent qualifications, please consult our programme counsellor.
- English proficiency requirement for International Students: IELTS 5.0/ TOEFL 500/ TOEFL IBT (40) / PTE 47/ MUET Band 3.5/ Cambridge English Qualifications and Tests 154

LIST OF COURSES OFFERED

YEAR 1

Core Courses

- Research Methodology
- Project Management
- Embedded System Design
- Advanced Engineering Electromagnetics
- Research Project I
- Research Project II

YEAR 2

Core Courses

- Research Project III
- Research Project IV

Specialisation Elective

- Machine Learning
- System on Chip Design
- Advanced Power Electronics
- Electric Machine and Drive
- Advanced Embedded System Design
- Advanced High Voltage Engineering
- Advanced Digital Signal Processing
- RF and Microwave Circuits
- Statistical Signal Processing
- Random Signals and Noise
- Advanced Power System Analysis
- CMOS RFIC Design
- Antenna and Radio Wave Propagation

Additional Requirement*

- Chinese 1
- Selected topics on China

*No additional tuition fees imposed.

Note:

- Students who obtained a Bachelor's or Master's degree in China can be exempted from Selected Topic on China.
- Students with a credit for Chinese course in previous result slips (UPSR/SPM/O-Level/UEC/A-Level/Foundation/Matriculation/Diploma/HSK etc.) can be exempted from Chinese 1.

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The information in this brochure is correct at the time of publication. Xiamen University Malaysia (XMUM) reserves the right to change the information in line with updates from time to time. Please check the website (www.xmu.edu.my) for latest information.

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