XIAMEN UNIVERSITY MALAYSIA
厦門大學馬來西亞分校

MASTER IN NEW ENERGY SCIENCE AND ENGINEERING

[R/0712/7/0008] 08/30 [MQA/FA13686]

DURATION OF STUDY	INTAKE	MEDIUM OF INSTRUCTION	ANNUAL FEE
Full-time: 2 - 3 years Part-time: 3 - 4 years	Open throughout the year	English	RM 25,000 (Local) RM 30,000* (International)

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

ABOUT THE PROGRAMME

In Xiamen University Malaysia (XMUM), the Master in New Energy Science and Engineering is a full research mode programme offered with the focus of energy related disciplines such as energy novel materials design, optimization and applications. This programme is designed to develop an in-depth understanding of recent developments in emerging energy materials and their applications, particularly with respect to the following disciplines:

- Catalysis
- Solar energy research
- Electrochemical energy storage research
- Piezoelectric energy research
- Energy materials simulation research
- Wave energy research
- Building-integrated photovoltaic, urban flows, heat and
- mass transfer, turbulence simulation research
- Petroleum chemical energy research
- Life cycle assessment, solid waste management, energy
- optimization research
- Low dimensional photonics and plasmonics, physical
- modelling of urban systems research
- Renewable and sustainable energy research

The programme provides practical training in an array of energy technology modules, such as energy materials/devices fabrication, and materials characterization techniques, aiming to develop knowledge of the fundamental principles of chemistry, physics and engineering that underpins commercially important energy applications. Students have access to fully-equipped modern research laboratories and instrumentation in a multidisciplinary research-centric environment. Students have the opportunity to gain an array of interdisciplinary fundamental knowledge and practical skills, developed through specialist lectures, workshops, research seminars, and hands-on laboratory and analytical experience.

PROGRAMME HIGHLIGHTS

- Strong industry networking and progressive industry linkage
- High impact research projects and close collaboration with Xiamen University College of Energy, China
- Advanced research facilities
- Excellence with highly experienced and award winning academic staff
- Affordable fees with scholarship opportunities

CAREER OPPORTUNITIES

Excellent career prospects in energy related disciplines such as power plant, semiconductor, electronics, bioprocessing energy, environment, education, research and development (R&D)

ENTRY REQUIREMENTS

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

- A Bachelor's Degree in related science or engineering discipline with a minimum CGPA of 2.75; OR
- A Bachelor's Degree in related science or engineering discipline with a minimum CGPA of 2.50 but below 2.75 will be subjected to internal assessment; OR
- A Bachelor's Degree in related science or engineering discipline with a CGPA below 2.50, can be accepted subjected to a minimum of 5 years of relevant working experience; OR
- Any other equivalent qualifications recognised by the Malaysian Government and accepted by the Senate
- **English proficiency requirement for International Students:** IELTS 5.0/CEFR B1/TOEFL PBT (410-413)/TOEFL IBT (40)/ CAE 160/CEFR B2/CPE (180)/CEFR C1/PTE 47/MUET Band 3.5

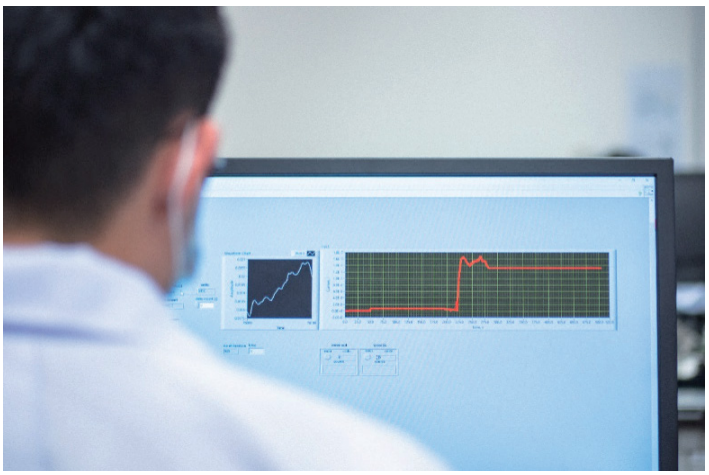
LIST OF COURSES OFFERED

Main Courses
- Research Methodology
- Graduate Seminar
- Research Thesis

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.



XIAMEN UNIVERSITY MALAYSIA DULN009(B)
TEL : +603 7610 2079/ +603 8800 6825
E-MAIL : enquiry@xmu.edu.my/ pg.enquiry@xmu.edu.my
WEBSITE : www.xmu.edu.my
CAMPUS ADDRESS: Jalan Sunsuria, Bandar Sunsuria, 43900 Sepang, Selangor Darul Ehsan, Malaysia

December 2025