

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

[R/0711/7/0009] 03/30 [MQA/FA12846]

DOCTOR OF PHILOSOPHY IN CHEMICAL ENGINEERING

[N/0711/8/0002] 05/27 [MQA/PA12847]

PROGRAMME	DURATION OF STUDY	MEDIUM OF INSTRUCTION	ANNUAL FEE	
Master of Science in Chemical Engineering (MSc)	Full-time (min. 2 years; max. 4 years); Part-time (min. 3 years; max. 6 years)	English	RM 25,000 (Local)	RM 30,000* (International)
Doctor of Philosophy in Chemical Engineering (PhD)	Full-time (min. 3 years; max. 5 years); Part-time (min. 4 years; max. 7 years)	English	RM 30,000 (Local)	RM 35,000* (International)

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

ABOUT THE PROGRAMME

School of Energy and Chemical Engineering at Xiamen University Malaysia (XMUM), provides postgraduate programmes, namely Master of Science (MSc) in Chemical Engineering and Doctor of Philosophy (PhD) in Chemical Engineering for students who have completed their Bachelor's or Master's degree to further their studies. The postgraduate programmes are offered in mixed modes including coursework and research. There are 3 major intakes a year in February, April, and September.

The postgraduate programmes are supported by the College of Chemistry and Chemical Engineering, XMU. The affiliated Department of Chemical and Biochemical Engineering, the National Engineering Laboratory for Green Chemical Productions of Alcohols-Ethers-Esters, the State-Province Joint Engineering Laboratory of Power Source Technology for New Energy Vehicle, and the Engineering Research Centre of Electrochemical Technology are at the forefront of Chemical Engineering at XMU.

The postgraduate programmes at XMUM equip the graduates with

- apply analytical and critical thinking skills to conduct research investigations.
- systematically carry out Chemical Engineering research via experimental and computational analyses.
- keep track of the cutting-edge development in this emerging field.
- demonstrate understanding of engineering practices, considering the need for lifelong learning and sustainable development to align with United Nations' Sustainable Development Goals.



Major Research Areas

PROGRAMME HIGHLIGHTS



The MSc and PhD in Chemical Engineering at the Xiamen University Malaysia (XMUM) offer innovative courses delivered by highly-qualified staff with excellent academic reputation, adopting a dynamic approach and with many years of research experience in areas including catalysis and reactions, membrane science and technology, nanomaterials, chemical processes, clean energy, process design optimisation, safety, and environmental protection. Our research laboratories are well-equipped with state-of-the-art instruments.

- A multi-disciplinary programme provided by one of the top institutions for chemical research and education
- Ideal integration of practical training with theoretical learning
- A stimulating environment with excellent research and teaching facilities
- A wide range of research activities to help transform our students into highly-skilled, well-rounded professionals
- Extensive support and collaboration from the industry player
- Close collaboration with the main campus, Xiamen University (XMU), China

CAREER OPPORTUNITIES

Excellent career prospects in chemical, petrochemical, petroleum refining, power plants, palm oil processing, semiconductor/electronic, pharmaceutical, biotechnology, food processing, safety engineering, environmental, educational, management and consultation firms and related industries.

MIXED MODE



MAIN COURSES

Master of Science in Chemical Engineering (MSc)

- 3 compulsory modules (25%)
- 2 specialisation elective courses (15%)
- Projects/ thesis/ dissertation (60%)

Doctor of Philosophy in Chemical Engineering (PhD)

- 3 compulsory modules (15%)
- 2 specialisation elective courses (15%)
- Projects/ thesis/ dissertation (70%)

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.



PROGRAMME	ENTRY REQUIREMENTS
Master of Science in Chemical Engineering (MSc)	i. A Bachelor's Degree with a minimum CGPA of 2.75 or ii. A Bachelor's Degree with a minimum CGPA of 2.50 but below 2.75 will be subject to internal assessment or iii. A Bachelor's Degree with a minimum CGPA below 2.50, can be accepted subject to a minimum of 5 years of relevant working experience or iv. Any other equivalent qualifications recognised by the Malaysian Government and accepted by the Senate
Doctor of Philosophy in Chemical Engineering (PhD)	i. A Master's Degree in related science or engineering discipline or ii. Any other equivalent qualifications recognised by the Malaysian Government, show evidence of adequate related research or work experience and accepted by the Senate
English Proficiency Requirement	IELTS 5.0/ CEFR High B1/ TOEFL with TOEFL Essentials (Online) 7.5 or TOEFL IBT: 40/ Cambridge English Qualifications 154/ PTE 47/ ELS 107/ MUET Band 3.5

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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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