

RESEARCH MODE



XIAMEN UNIVERSITY MALAYSIA
廈門大學 馬來西亞分校

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

KPT/JPS [N/0711/7/001] 04/29 [MQA/PA 15290]

DOCTOR OF PHILOSOPHY (CHEMICAL ENGINEERING)

KPT/JPS [N/0711/8/0001] 04/29 [MQA/PA 15337]

PROGRAMME	DURATION OF STUDY	MEDIUM OF INSTRUCTION
Master of Science in Chemical Engineering (MSc)	Full-time (min. 2 years; max. 4 years); Part-time (min. 3 years; max. 6 years)	English
Doctor of Philosophy (Chemical Engineering) (PhD)	Full-time (min. 3 years; max. 5 years); Part-time (min. 4 years; max. 7 years)	English

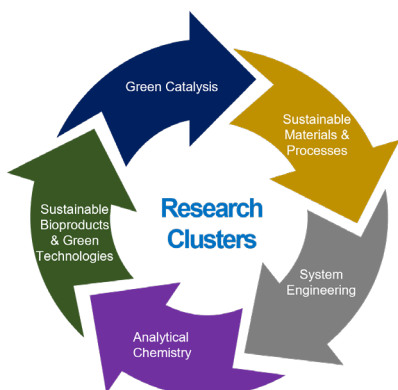
ABOUT THE PROGRAMME

School of Energy and Chemical Engineering at Xiamen University Malaysia (XMUM), offers monthly intake research mode postgraduate programmes, namely Master of Science in Chemical Engineering (MSc) and Doctor of Philosophy (Chemical Engineering) (PhD) for students who have completed their Bachelor's or Master's degree to further their studies.

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 (research mode) 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, enabling students to focus on the programme by conducting their own research projects in their specialised field of study.

- 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.

RESEARCH MODE



MAIN COURSES

- Master/ PhD Research
- Graduate Seminar
- Research Methodology and Entrepreneurship
- Selected Topics on China[#]
- Chinese I^{*}

[#]Students who obtained a Bachelor's or Master's degree in China can be exempted.

^{*}Students with a credit for Chinese course in previous result slips (UPSR/ STPM/ UEC/ A-Level/ Foundation/ Matriculation/ Diploma/ SPM/ O-Level/ HSK, etc.) can be exempted.



PROGRAMME	ENTRY REQUIREMENTS
Master of Science in Chemical Engineering (MSc)	<ol style="list-style-type: none"> A Bachelor's Degree in Chemical Engineering or a related discipline with a minimum Cumulative Grade Point Average (CGPA) of 2.75 or A Bachelor's Degree in Chemical Engineering or a related discipline with a minimum CGPA of 2.50 but below 2.75 will be subjected to rigorous internal assessment or A Bachelor's Degree in Chemical Engineering or a related discipline with a minimum CGPA below 2.50, can be accepted subjected to a minimum of five years of relevant working experience and rigorous internal assessment or Candidates without a qualification in Chemical Engineering or relevant working experience must undergo appropriate prerequisite courses and meet the minimum CGPA based on i to iii or Any other equivalent qualifications recognised by the Malaysian Government and accepted by the Senate.
Doctor of Philosophy (Chemical Engineering) (PhD)	<ol style="list-style-type: none"> A Master's Degree in related Science or Engineering discipline; or Any other equivalent qualifications recognised by the Malaysian Government, show evidence of adequate related research or work experience and accepted by the Senate; or Bachelor's Degree candidates who are registered for Master's Degree programmes may apply to convert to the Doctoral Degree programmes subjected to the following conditions: <ul style="list-style-type: none"> • Within one year full-time and within two years for part-time candidates; • Having shown competency and capability in conducting research at doctoral level through rigorous internal evaluation and approval of 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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