UNIMAS
UNIVERSITI MALAYSIA SARAWAK

MASTER OF ENGINEERING IN ENERGY AND ENVIRONMENT

Inclusive . Global . Sustainable

FACULTY OF ENGINEERING

by coursework

FEBRUARY & SEPTEMBER Intakes

INTRODUCTION

This new Master of Engineering in Energy and Environment programme by coursework is specifically tailored to equip fresh graduates, practicing engineers and academicians with advanced knowledge and skills required in energy and environmental sectors. The programme offers a comprehensive course structure delivered by our experienced academicians and industrial partners, which emphasizes on recent engineering practices and industrial-based research projects. This is the first such programme has ever offered on Borneo.

ADMISSION

The Master of Engineering in Energy and Environment programme starts in September and February every year. Application is open throughout the year and can be done online via: https://cgsweb.unimas.my/PGApplication/

PROGRAMME STRUCTURE

Semester 1

KNC6013	Advanced Conventional Energy System
KNC6023	Advanced Renewable Energy System
KNC6033	Energy and Environment Sustainability
KNC6173	Research Methodology
KNC6XX3	Elective Course

Intersession

KNC61810	Research Project

Semester 2

KNC6063	Energy and Environment Law and Policy
KNC6103	Advanced Energy Optimization and Economics
KNC6113	Advanced Environmental Impact Assessment
KNC6XX3	Elective Course
KNC6XX3	Elective Course

List of Elective Courses*

KNC6073	Advanced Environmental Pollution Control
KNC6083	Risk and Hazard Management in Energy Sector
KNC6133	Sustainable Project Management
KNC6143	Industrial Hygiene in Energy Sector
KNC6153	Emerging Energy & Environment Technologies
KNC6193	Modeling Energy System
KNC6203	Waste Management in Oil and Gas Industry
KNC6213	Enhanced Oil Recovery

*The elective courses offered in each semester are subject to the minimum number of students registering for the programme.

DURATION OF THE PROGRAMME

Master of Engineering in Energy and Environment is a master programme by coursework with minimum of 1 year to maximum of 4 years on full time. Teaching and learning activities for the programme are conducted in weekends.

FACILITIES AND RESOURCES

To support your studies, University provides various facilities and resources such as:

- Process Control Laboratory
- Analytical Chemistry Laboratory
- Computer Laboratory
- Simulation Laboratory
- Chemistry Laboratory
- Environment & Energy Sustainability Laboratory
- General Workshop
- Unit Operation (Heat & Mass Transfer) Laboratory

WHO SHOULD APPLY

The programme aims at providing opportunities to various group of potential candidates such as:

- Fresh gradutes
- Practicing engineers
- Academicians

COURSE FEES

Malaysian student **RM27,225.00**
International student **RM38,900.00**

Fees include administrative, tuition and course materials for the duration of the programme. Further payment will be required if the students extend their studies.

ENTRY REQUIREMENTS

The entry requirements for the programme are as follows:

- An Engineering Bachelor's Degree (Mechanical/Chemical/Civil/Environment) or any related Science Bachelor's Degree (Chemistry/Environment) with a minimum CGPA of 2.50, as accepted by the Senate;
- An Engineering Bachelor's Degree (Mechanical/Chemical/Civil/Environment) or any related Science Bachelor's Degree (Chemistry/Environment) but with CGPA less than 2.50 (minimum 2.00), may be admitted subject to a rigorous internal assessment;
- Candidates without a qualification in the related fields or working experience in the relevant fields must undergo appropriate prerequisite courses determined by the HEP and meet the minimum CGPA; or
- Other equivalent qualifications approved by the Senate
- For international students, a minimum IELTS Score of 5.5 or its equivalent (e.g TOEFL-525; TOEFL Computer Test -196; TOEFL Internet Test 69-70) is required.

PROGRAMME SCHEDULE

The programme requires students to accumulate 40 credit hours in their studies in which preferably 15 credit hours are completed in Semester 1 and Semester 2 respectively and 10 credit hours in the intersession semester.

CONTACT US

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