

## MASTER OF ENGINEERING IN ENERGY AND ENVIRONMENT



**FACULTY OF ENGINEERING** 

by coursework

OCTOBER,
FEBRUARY & JUNE
Intakes

### INTRODUCTION

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. The programme is based on a trimester system; October, February and June in an academic year.

### **ENTRY REQUIREMENTS**

- A Bachelor's Degree in the field of engineering (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; or
- A Bachelor's Degree in the field of engineering (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; or
- 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 5.0 or its equivalent (e.g. MUET Band 3.5; TOEFL iBT 40; TOEFL Essential (Online) 7.5, Pearson Test of English 47, Cambridge English Qualifications and Tests 154)\* is required.

### **ALTERNATIVE OPTION FOR ADMISSION**

### APEL. A for Access

- APEL.A is applicable to local and international applicants who do not meet the regular entry requirements imposed by academic programmes at any MQF level
- Applicants applying for entry via the APEL.A must meet the minimum age requirements stipulated for the various level of qualifications
- Applicants must fulfil the minimum formal qualifications stipulated, for Master's and Doctorate level
- Applicants applying for entry via the APEL.A must have prior experiential learning

### POTENTIAL APPLICANTS

- Fresh graduates
- Practising engineers
- Project Executives

### **DURATION OF PROGRAMME**

Full Time **1-4 years** 

Part Time **2-6 years** 

### PROGRAMME SCHEDULE

The programme requires students to accumulate 40 credit hours in their studies. All teaching and learning activities are conducted during the weekends (Saturday & Sunday) for both mode of study (full time & part time).

### **FACILITIES & RESOURCES**

- Perpustakaan Tun Abdul Rahman Ya'kub (PeTARY)
- Computing Facilities
- Online Learning Support
- Resources Rooms
- Laboratory Facilities

# PROGRAMME STRUCTURE

### Semester 1

KNC6063 Energy and Environment Law

and Policy

KNC6103 Advanced Energy

Optimization and Economics

KNC6233 **Environmental Impact** 

Assessment

KNC6173 Research Methodology

Flective 1

### Semester 2

KNC6223 Conventional Energy System

KNC6023 Advanced Renewable Energy

System

KNC6033 Energy and Environment

Sustainability

Elective 2 Flective 3

### Semester 3

KNC61810 Research Project

### **COURSE FEES**

Full Time:

Malaysian student RM27,326.00 International student RM38.900.00

Part Time:

Malaysian student RM27,672.00

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

### List of Elective Courses

Advanced Environmental Pollution Control KNC6073 Risk and Hazard Management in Energy

KNC6083 Sector

Sustainable Project Management

KNC6133

Industrial Hygiene in Energy Sector KNC6143 KNC6153

**Emerging Energy and Environment** 

**Technologies** 

KNC6193 Modelina Energy System

Waste Management in Oil and Gas Industry KNC6203

**Enhanced Oil Recovery** KNC6213

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

### **FAST TRACK OPTION**

### **APEL.C for Credit Transfer**

Oualified individuals with relevant prior learning experiences could take APEL. C assessments (Portfolio/Challenge Test) for credit transfer in APEL Assessment Centre, UNIMAS.

### CONTACT US

### Dr Dayang Salyani Binti Abang Mahmod

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### For General Inquiries

### **Centre for Graduate Studies**

Universiti Malaysia Sarawak (UNIMAS) 94300 Kota Samarahan, Sarawak, Malaysia. Website: http://www.postgrad.unimas.my Phone: +6082 58 1067/1066/1069

### **UNIMAS Business School**

Level 4, UNIMAS City Campus Lot 77, Section 22, KTLD Jalan Tun Ahmad Zaidi Adruce 93150 Kuching, Sarawak, Malaysia. Website: https://www.business.unimas.my

Phone: +6082-222111 Email: ubs@unimas.my

### APPLICATION PROCEDURE

Application must be submitted online at https://oas.aa.unimas.my

Application is open throughout the year.

