

# MASTER OF **ENGINEERING IN ENERGY AND ENVIRONMENT**

Community-Driven University For a Sustainable World

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
- Elective 1

#### Semester 2

- KNC6223 Conventional Energy System
- KNC6023 Advanced Renewable Energy System
- KNC6033 Energy and Environment Sustainability
- Elective 2
- Elective 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

- 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 and 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.

## FAST TRACK OPTION

### APEL.C for Credit Transfer

Qualified 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**

Programme Coordinator

Faculty of Engineering

Universiti Malaysia Sarawak (UNIMAS)

94300 Kota Samarahan, Sarawak, Malaysia

Website: <http://www.feng.unimas.my>

Phone: +6082-583275 / +6016-720 1213

Email: [amdsalyani@unimas.my](mailto:amdsalyani@unimas.my)

## **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](mailto:ubs@unimas.my)

# APPLICATION PROCEDURE

Application must be submitted online at  
**<https://oas.ia.unimas.my>**

Application is open throughout the year.

#### **Disclaimer:**

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