

Master of Science Low Carbon & Hydrogen Technology

COURSEWORK

This program is designed to produce graduates with advanced knowledge in the fields of low carbon technology and hydrogen technology in Malaysia, which is crucial to achieving global energy and environmental sustainability in the Industrial Revolution 4.0 era.



ZERO EMISSION

Pioneer in the development
of the MSc Program by
Coursework on Hydrogen

1ST

Designed by Fuel Cell Institute,
Institute focusing on
fuel cell & hydrogen
technology in Malaysia

Duration of Studies:

FULL-TIME:

Complete in **three (3)**
full semesters

PART-TIME:

The maximum study duration is
eight (8) full semesters

Venturing into Low Carbon & Hydrogen Economy

Program Highlights:



Beyond the Classroom:

- Co-supervision by industrial experts on selected research projects,
- Industrial visit, &
- Invited lectures from industry players.



Flexible
timetable with
hybrid learning
mode



First-hand lectures
from experts and
pioneers in Malaysia
hydrogen-related
technologies



Opportunity to
pursue the Master
program via APEL
track

01

02

03

04

This program requires the candidates to fulfil a total of **42 credits**. The candidates must complete **5 core courses, 5 elective courses, & 1 research project (mini dissertation) for graduation.**

Core Courses
Research Methodology
Policy & Management of Global Energy
Low Carbon Technology
Hydrogen Technology
Fuel Cell System
Entrepreneurship
Project I & Project II

Elective Courses
Energy Storage & Transportation
Advanced Energy Materials
Modelling & Optimization in Energy System
Process Safety for Hydrogen Technology
Circular Economy
Electrochemistry for Energy Generation
Malay Language (for foreign candidates only)

Tuition Fees:



RM 25.500.00
Malaysian Students



RM 32.500.00
International Students

***The minimum entry requirements are as follows:**

- A Bachelor of Engineering degree/ Bachelor of Science/ Bachelor of Technology with honours (CGPA 2.5 and above) from any institution of higher learning recognized by the Senate, OR
- A Bachelor of Engineering degree/ Bachelor of Science/ Bachelor of Technology with honours having CGPA 2.00 - 2.49 accompanying with at least 5 years of working experience in the science and technology field after obtaining the degree; OR
- Fulfilling the Accreditation of Prior Experiential Learning (APEL A) with MQF Level 7 for Malaysian candidates only

***International candidates MUST meet the English language requirements as follows:**

- Obtain a minimum TOEFL pBT score of 453; OR
- Obtain a minimum TOEFL iBT score of 46; OR
- Obtain a minimum TOEFL ITP score of 585; OR
- Obtain a minimum IELTS score of 5.5; OR
- Obtain a minimum MUET score of band 3.5;
- Obtain a minimum Pearson Test of English score of 51; OR
- Obtain a minimum Cambridge English Qualifications and Test score of 160.



Scan our QR CODE for application.
All documents must be uploaded through the system. Please read the application procedure carefully prior to the application.

Further Information

Application Enquiry:

**UKMSHAPE GRADUATE PROGRAMME
PROJECT MANAGER**

Mr. Megat Syariffudin

☎ +603-8921 5580/ 4661 ✉ syariffudin@ukm.edu.my
☎ +6017-304 0235 🌐 www.ukm.my/studyukm

Programme Enquiry:

**GRADUATE PROGRAMME
COORDINATOR (COURSEWORK)**

Dr. Wong Wai Yin

+603-8911 8588 ☎
waiyin.wong@ukm.edu.my ✉
www.ukm.my/selfuel 🌐

