

Master of Science Low Carbon and Hydrogen Technology

MQA / PSA15181

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.



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
RARE6113 - Research Methodology
RARE6123 - Policy & Management of Global Energy
RARE6133 - Low Carbon Technology
RARE6143 - Hydrogen Technology
RARE6153 - Fuel Cell System
RARE6004 - Project I
RARE6008 - Project II

Elective Courses
RARE6213 - Energy Storage & Transportation
RARE6223 - Advanced Energy Materials
RARE6233 - Modelling & Optimization in Energy System
RARE6243 - Process Safety for Hydrogen Technology
RARE6253 - Circular Economy
RARE6263 - Electrochemistry for Energy Generation
LMCM1083 - Malay Language (for foreign candidates only)
CMIE6213 - Product Innovation & Entrepreneurship
CMIE6013 - Social Entrepreneurship

Tuition Fees:



RM 25.500.00
Malaysian Students



RM 32.500.00
International Students

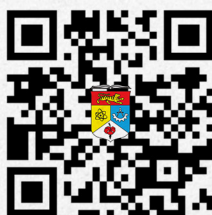
*The minimum entry requirements are as follows:

- 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 Now!



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:

**EXECUTIVE & PBJJ
UKMSHAPE**

+603-8921 3995
+6012-916 4619 (Aizat)
+6017-923 6591 (Syahmie)

ekspbjj@ukm.edu.my
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



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