FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING
MASTER IN CHEMICAL ENGINEERING WITH ENTREPRENEURSHIP (BY COURSEWORK)
NO. MQA: FAS308

Introduction

- The Faculty of Chemical and Natural Resources Engineering (FKKSA) of UMP was established to embark on research and development activities, particularly in the area of fine and specialty chemicals, chemical process scaling-up, biotechnology and gas technology-related processes in order to generate the expertise relevant to the needs of the industry.
- In light of the establishment of the East Coast Economic Region (ECER), FKKSA is expected to play an important role as well as a reference centre for chemical and biotechnology-related activities.
- It will also serve as a catalyst for the development of these activities through programmes such as technology transfer, staff exchange, training, consultancy and other services related to chemical and natural resources engineering.

Objective

- FKKSA has established Master in Chemical Engineering with Entrepreneurship (by coursework) since 2011/2012.
- Our aim is to produce graduates who are competent in chemical product development, product quality management and able to explore areas of business and entrepreneurship.

Why choose our KKK Programme?

- The first chemical engineering master programme with entrepreneurship in Malaysia
- Our master programme is at the forefront of business in technology ranging from the complex gas and petrochemicals, renewable energy, recycling technology, bio-ingredients, process control, and product development
- Weekend classes or night classes are available for busy professionals

Delivery Method

- It covers 75% Chemical Engineering and 25% Entrepreneurship
- 43 credit hours are required to complete the course

Mode and Duration of Program

<table>
<thead>
<tr>
<th></th>
<th>Full Time</th>
<th>3 Semester</th>
<th>1 Year</th>
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<tbody>
<tr>
<td>Part Time</td>
<td>6 Semester</td>
<td>3 Years</td>
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Entry Requirement

- Recognized degree with CPA 2.50/4.00 and above or
- Recognized degree with CPA lower than 2.50/4.00. The candidates must have minimum of 5 years working experience in related fields.

English Language Requirement

- Candidates should have a good command of English equivalent to IELTS 6.0, TOEFL* 550 points (for international students only) or MUET Band 4 (for local students only).
- TOEFL ITP is not acceptable.
- Candidates who have obtained a lower result or have not taken the TOEFL/IELTS are required to sit for the Preparatory Intensive
- English (PTE) classes and obtained Band 6.0 in the UMP English Proficiency Test (UMP-EPT) after registration.

Intakes

- Intakes are twice in the year: January and September

Programme Structure

<table>
<thead>
<tr>
<th>COURSES</th>
<th>CREDIT HOURS</th>
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</thead>
<tbody>
<tr>
<td>Core Chemical Engineering</td>
<td>26</td>
</tr>
<tr>
<td>Core Entrepreneurship</td>
<td>11</td>
</tr>
<tr>
<td>Elective</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
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</tbody>
</table>

For September and February Intake
Apply Now!
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Contact Us
Head of Program
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Elective Subjects:
- MKH1550 Environmental Technology
- MKH1540 Bioprocess Technology
- MKH1523 Oil & Gas Processing Technology

What our alumni say about us

"Making it into the industry does not only require theoretical knowledge but with the correct mindset and attitude. If one dreams of venturing into business in the chemical engineering field, then business management knowledge is equally important. With this KKK programme, I learnt how to turn my theoretical knowledge of chemical engineering into profitable business through effective planning and marketing. This course strengthens not only fundamentals of your studies, but also enhances creative thinking and innovative ideas. All in all, it prepares you to start as an entrepreneur in the industry."
Nurul Afqiah Binti Abdul Rahim

"I just want to thank the programme for putting together such an informative course and giving me the opportunity to participate in. Working through a chemical engineering business plan and presenting it to the peers, was extremely valuable. I have successfully used the knowledge that I acquired in the programme, to meet multi-racial clients in oil and gas industry. Thank you so much for making this happen."
Muhammad Abdul Mu'min Bin Mohd Azemi Amin

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Farah Fathiah Binti Mohd Azhari