

# WEEKEND & EVENING CLASSES

## BACHELOR OF CHEMICAL ENGINEERING TECHNOLOGY IN PROCESS

MOHE/ MQA  
Approved &  
Accredited

### ENQUIRIES

UNIVERSITI KUALA LUMPUR  
MALAYSIAN INSTITUTE OF CHEMICAL AND BIO-ENGINEERING TECHNOLOGY  
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# + PROFESSIONAL CERTIFICATE

1. PIPE Programme - Malaysian Oil & Gas Council, AVEVA & Integraph

## JPT/BPP (R/545/6/0012) 02/17, MQA A 7548 BACHELOR OF CHEMICAL ENGINEERING TECHNOLOGY (HONS.) IN PROCESS

Weekend classes and Online Forum during Weekdays

### OVERVIEW

The program focuses on the design, operation and maintenance of chemical and material manufacturing processes with the application of several key principles such as chemical reaction engineering, plant design and construction, process design and analysis, as well as transport phenomena. Chemical Process technologists intimately deal with the scaling up of various chemical reactions and processes, exploiting it in a manner leading to new products that add value or improve quality. In a nutshell, chemical process technologists develop and design chemical manufacturing processes with equipped knowledge of operating and troubleshooting in a chemical plant. We are found in vast range of industries involved in chemical production, raw material processing, as well as energy generation and conversion. This branch of engineering is a challenging and rewarding profession for individuals, who aspire in developing and manufacturing new and alternative chemical and pharmaceutical products to sustain better quality of modern living, discovering new materials through nanotechnology and life science for the betterment of society.

### ENTRY REQUIREMENT

Pass STPM or equivalent with a minimum grade C (CGPA 2.00) in Mathematics, a Science related subjects and other subjects, as well as a pass in SPM or equivalent with at least a pass in English

Diploma (Level 4, the Ministry of Health) Engineering / Engineering Technology or equivalent recognized, with a CGPA of 2.00 and a minimum;

OR  
Diploma (Level 4, kkm) in the field of vocational and technical / skills that are relevant and recognized with a minimum CGPA of 2.00 and a pass in English at SPM or equivalent

Passing Basic program of Science and Technology / Science Foundation (Foundation in Science and Technology / Foundation in Science) from UNIKL with minimum CGPA of 2.00 and a pass in English Language subject at the SPM level or equivalent

OR  
Passed the Matriculation program / Preparation in Science recognized with a minimum CGPA of 2.00 and a pass in English Language subject at the SPM or equivalent OR  
Graduated South Australian Matriculation (SAM) / Australian Year 12 / termausk Canadian Grade 12 Mathematics and one Science subject related

Graduated in the International Baccalaureate (IB) with at least 24/45 points including Mathematics and one Science subject related

A Level pass with at least a pass in Mathematics, a Science related subjects and other subjects, as well as a pass in SPM or equivalent with at least a pass in English

Pass Sijil Tinggi Agama Malaysia (STAM) with at least Jayyid and pass SPM or equivalent with at least a credit in Mathematics, a Science related subjects and pass in English;

\*Eg for applications for admission in 2015, graduated in 2014 or 2013 STAM HAVE A UNIVERSITY QUALIFICATION EXAMINATION ENGLISH TEST (MUET) AT LEAST BAND 2

OR  
HAVING AT LEAST MINIMUM IELTS BAND 4.0 OR  
HAVE MINIMUM SCORES AT LEAST TOEFL 450 (PBT) or 135 (CBT) or 40 (IBT)

### FUNDING OPTIONS

## HRDF Claimable

*\*subject to company levy contribution*

## EPF WITHDRAWAL

## PTPTN

*\*subject to PTPTN approval*

## CREDIT CARD

# MODULES OFFERED

### SEMESTER 1

Mathematics 1  
Technopreneurship  
"Tamadun Islam & Tamadun Asia (TITAS)/  
Bahasa Kebangsaan A"  
Fundamental English  
Professional English 1

### SEMESTER 3

Fluid Mechanics  
Analytical & Organic Chemistry  
Thermodynamics  
Co-curriculum  
Hubungan Etnik / Pengajian Malaysia 3

### SEMESTER 5

Transport Process Principles  
Introduction to Environmental Engineering Technology  
Numerical Methods in Chemical Engineering  
Mandarin 2  
Professional English 2

### SEMESTER 7

Introduction Renewable Energy  
QA & QC in Chemical Engineering  
Oil & Fat Process Technology  
Process Dynamics & Control

### SEMESTER 9

Engineering Technologist in Society  
Elective 2 \*  
Innovation Management  
Design Project 1 (Design & Feasibility Study of Plant)  
Final Year Project (Design Proposal)

### SEMESTER 11

Industrial Training

\*credit transfer or exemption based on prior learning

### SEMESTER 2

Mathematics 2  
Fundamental of Electric & Electronics  
Physical Chemistry  
Engineering Drawing & Computing  
Mandarin 1

### SEMESTER 4

Reaction Engineering  
Engineering Design  
Chemical Process Principles  
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### SEMESTER 6

Process Instrumentation & Control  
Separation Process  
Engineering Statistics  
Industrial Safety & Health

### SEMESTER 8

Plant Utilities & Maintenance  
Petrochemical & Petroleum Refining Technology  
Biochemical Engineering  
Elective 1 \*

### SEMESTER 10

Elective 3\*  
Design Project 2 (Plant & Process Optimization)  
Final Year Project (Design Implementation)

### NOTE

**ELECTIVE A (ENVIRONMENT)**  
Solid Waste Management  
Wastewater Treatment Technology  
Air Pollution Control Technology

**ELECTIVE B (MANAGEMENT)**  
Management for Chemical Technologist  
Marketing for Chemical Technologist  
Chemical Technology Organization Behaviour

**ELECTIVE C (BIOSYSTEM)**  
Bio-polymers  
Downstream Processing of Bio-Products  
Packaging Engineering

