



**UniKL**  
UNIVERSITI  
KUALA LUMPUR

# FLEXILEARN

## WEEKEND & EVENING CLASSES

**MOHE / MQA  
Approved &  
Accredited**



JPT/BPP (R2/524/6/0014) 07/22, MQA A7702  
**BACHELOR OF CHEMICAL  
ENGINEERING TECHNOLOGY (HONS)  
IN FOOD**



# OVERVIEW

This programme applies the principles of chemical engineering and food chemistry to the large-scale processing of foods. Food must be nutritious, ie., provide the essential nutrients for growth and health; they must be safe, free from dangerous micro-organisms and chemical contaminants; and, if they are to be consumed at all, that must be attractive in taste and appearance. In this programme you learn how to adapt the unit operations of traditional chemical engineering to the specific requirements of food processing. The main objective of this programme is to make it possible for well-trained chemical engineers to work in the food industry, possible one of the largest manufacturing industry in Malaysia; graduates that are market ready upon graduation. The programme includes exposure to areas of food chemistry, food microbiology, food engineering, food safety, food processing and the nutritive value of food. It is also designed to provide depth and breadth in the relevant physical and biological sciences on which food science and technology is based.

**FINANCIAL ASSISTANT**

**HRDF Claimable**  
*\*subject to company levy contribution*

**EPF WITHDRAWAL**

**PTPTN**  
*\*subject to PTPTN approval*

**CREDIT CARD**

**+ PROFESSIONAL CERTIFICATES**  
HALAL EXECUTIVE, HALAL INTERNAL AUDIT -  
HALAL PROFESSIONAL BOARD (HPB), MESTI/GMP/HACCP

## 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 / including 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 Jaiyyid 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)

## PROGRAMME STRUCTURE

### SEMESTER 1

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

### SEMESTER 2

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

### SEMESTER 3

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

### SEMESTER 4

Food Chemistry  
Engineering Design  
Chemical Process Principles  
Isu-isu Kontemporari Muslim di Malaysia/Culture and  
Lifestyle in Malaysia  
Introduction to Food Science and Technology

### SEMESTER 5

Transport Process Principles  
Introduction to Environmental Engineering Technology  
Food Sensory and Evaluation  
Mandarin 2  
Professional English 2

### SEMESTER 6

Process Instrumentation & Control  
Food Microbiology  
Engineering Statistics  
Industrial Safety & Health  
Elective 1

### SEMESTER 7

Food Processing and Innovation  
Food Quality & Safety Management System  
Oil & Fat Process Technology  
Elective 2 \*

### SEMESTER 8

Chemical Food Analysis  
Food Packaging Technology  
Food Process Engineering  
Elective 3

### SEMESTER 9

Engineering Technologist in Society  
Innovation Management  
Final Year Project (Design Proposal)  
Food Plant Design  
Instrumental Food Analysis

### SEMESTER 10

Halal Technology  
Final Year Project (Design Implementation)

### SEMESTER 11

Industrial Training

### 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

\*credit transfer or exemption based on prior learning

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