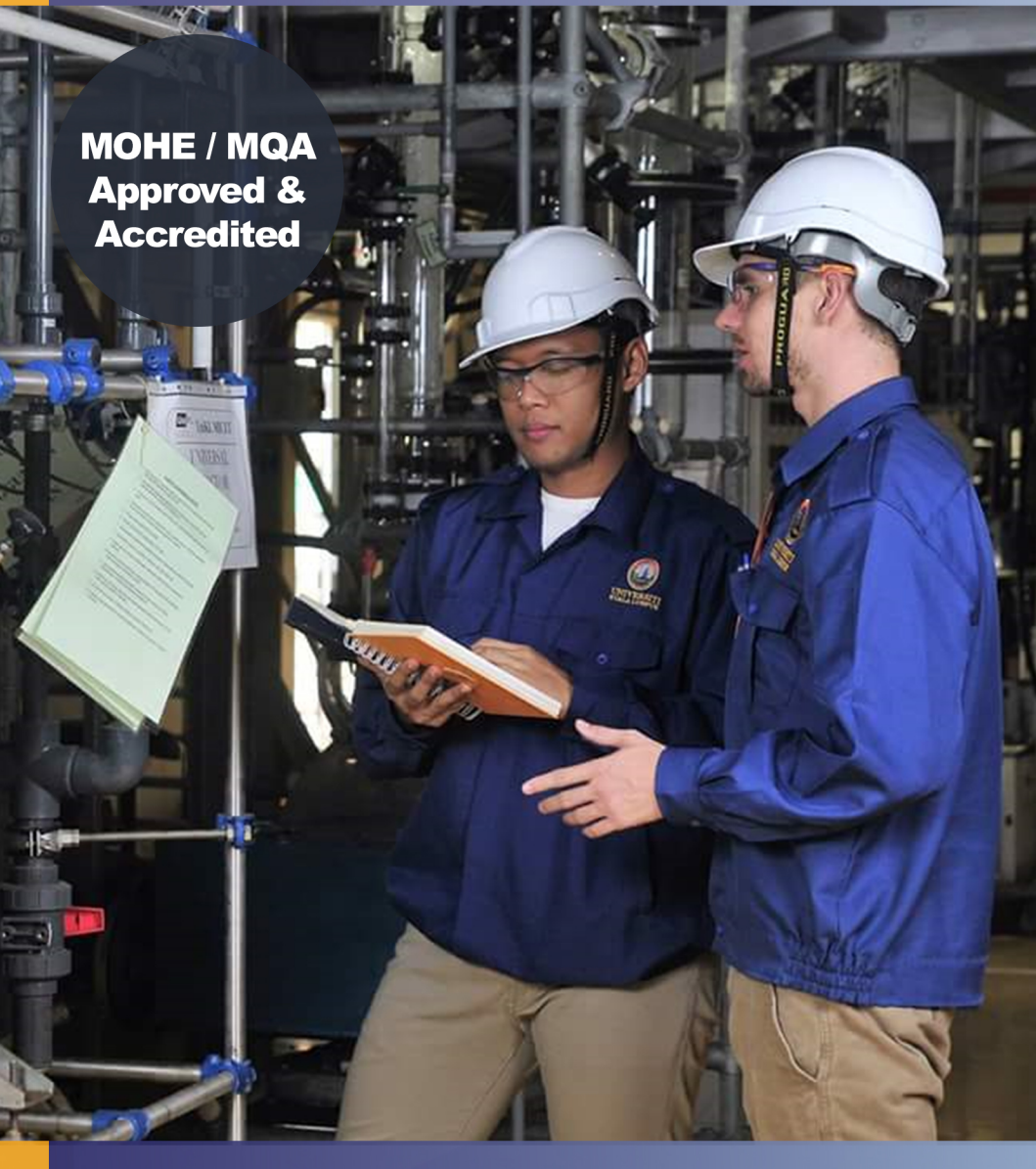
UniKL
UNIVERSITI
KUALA LUMPUR

(570132-T)

FLEXILEARN

WEEKEND & EVENING CLASSES



JPT/BPP (R/524/6/0061) 02/22, MQA A7548

BACHELOR OF CHEMICAL ENGINEERING TECHNOLOGY (HONS)

IN PROCESS

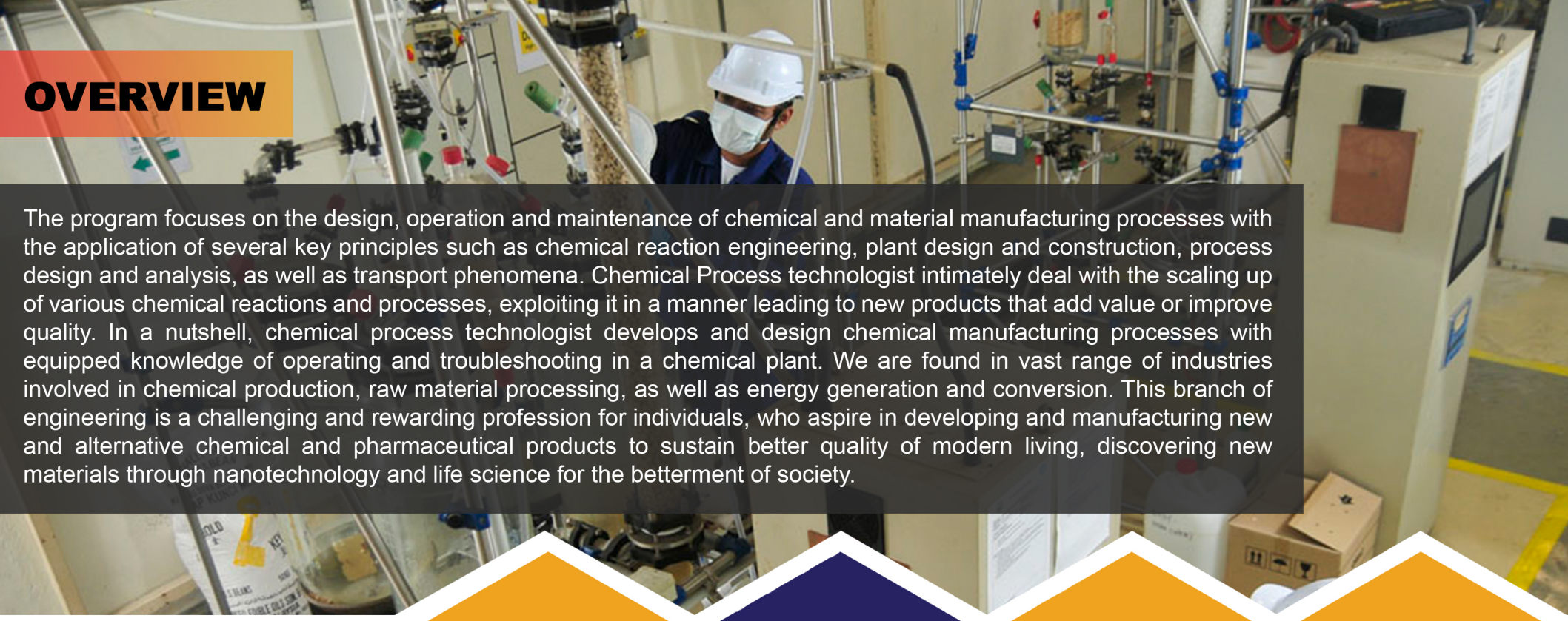
SETARA Tier 5 Excellence Status 2009-2013

#373 QS Asia University Ranking 2016

PUTRA Brand Award 2016

BRAND LAUREATE Icon Award 2016

KKLW Best Subsidiary Award 2014-2015



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 technologist 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 technologist develops 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.

FINANCIAL ASSISTANT

HRDF Claimable
**subject to company levy contribution*

EPF WITHDRAWAL

PTPTN
**subject to PTPTN approval*

CREDIT CARD

+ PROFESSIONAL CERTIFICATES

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

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)

PROGRAMME STRUCTURE

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

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

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

SEMESTER 4
Reaction Engineering
Engineering Design
Chemical Process Principles
Isu isu konteporari

SEMESTER 5
Transport Process Principles
Introduction to Environmental Engineering Technology
Numerical Methods in Chemical Engineering
Mandarin 2
Professional English 2

SEMESTER 6
Process Instrumentation & Control
Separation Process
Engineering Statistics
Industrial Safety & Health

SEMESTER 7
Introduction Renewable Energy
QA & QC in Chemical Engineering
Oil & Fat Process Technology
Process Dynamics & Control

SEMESTER 8
Plant Utilities & Maintenance
Petrochemical & Petroleum Refining Technology
Biochemical Engineering
Elective 1 *

SEMESTER 9
Engineering Technologist in Society
Elective 2 *
Innovation Management
Design Project 1 (Design & Feasibility Study of Plant)
Final Year Project (Design Proposal)

SEMESTER 10
Elective 3*
Design Project 2 (Plant & Process Optimization)
Final Year Project (Design Implementation)

SEMESTER 11
Industrial Training

*credit transfer or exemption based on prior learning

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

UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF CHEMICAL AND BIO-ENGINEERING TECHNOLOGY
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