

# SARJANA KEJURUTERAAN (KIMIA)

## MASTER OF ENGINEERING (CHEMICAL)

### Modul Program / *Course Modules*

Kod Kursus / <i>Course Code</i>	Nama Kursus / <i>Course Name</i>	Taraf Kursus / <i>Category</i>	Unit / <i>Units</i>
KKKK6112	Kaedah Penyelidikan dan Inovasi <i>Research Methodology and Innovation</i>	W	2
KKKK6023	Pengurusan Projek <i>Project Management</i>	W	3
KKKK6133	Analisis Risiko Kuantitatif <i>Quantitative Risk Analysis</i>	W	3
KKKK6143	Keadah Perkomputeran Untuk Kejuruteraan Kimia <i>Computational Methods for Chemical Engineering</i>	W	3
KKKK6153	Rekabentuk Sistem Kejuruteraan <i>System Engineering Design</i>	W	3
KKKK6163	Dinamik dan Kawalan Proses Lanjutan <i>Dynamic and Advanced Process Control</i>	W	3
KKKK6004	Projek I <i>Project I</i>	W	4
KKKK6009	Projek II <i>Project II</i>	W	9
LMCM	Bahasa Melayu Bahasa Asing I <i>Compulsory for international candidates</i>	AU	-
<b>Pilihan CESMED (Pilih 1 kursus sahaja)</b> <i>Elective CESMED (Select 1 course only)</i>			
CMIE6013	Keusahawanan Sosial <i>Social Entrepreneurship</i>	P	3
CMIE6213	Inovasi Produk dan Keusahawanan <i>Product Innovation and Entrepreneurship</i>	P	3
CMIE6023	Kajian Kes Keusahawanan <i>Entrepreneurship Case study</i>	P	3
CMIE6223	Pengurusan Strategik Enterpris Kecil dan Sederhana <i>Strategic Management of Small and Medium Enterprises</i>	P	3
<b>Pilihan Modul (Pilih 1 modul sahaja)</b> <i>Module Elective (Select 1 module only)</i>			
KKKK6233	Kejuruteraan Bioproses <i>Bioprocess Engineering</i>	P Module 1 (Biochemical Engineering)	3
KKKK6243	Proses Hiliran Biologi <i>Biological Downstream Processes</i>		3
KKKK6253	Teknologi Biofarmaseutikal <i>Biopharmaceutical Technology</i>		3
KKKK6263	Kejuruteraan Biobahan Lanjutan <i>Advanced Biomaterial Engineering</i>		3
KKKK6333	Penukaran Biojisim Berlignoselulosa dan Biorefineri <i>Biomass Utilization and conversion technology</i>	P Module 2 (Process Sustainability Technology)	3
KKKK6343	Teknologi Pemisahan Hijau <i>Green Separation Technology</i>		3
KKKK6353	Pengurusan Sisa Buangan Industri <i>Industrial Waste Management</i>		3
KKKK6363	Eko-Komuniti Simbiosis <i>Symbiotic Eco-Community</i>		3

KKKK6433	Teknologi Tenaga Keterbaharuan dan Alternatif <i>Renewable and Alternative Energy Technology</i>	P Module 3 (Energy Engineering)	3
KKKK6443	Tenaga Suria <i>Solar Energy</i>		3
KKKK6453	Teknologi Selfuel dan Aplikasi <i>Fuel Cell Technology and Application</i>		3
KKKK6463	Teknologi Hidrogen <i>Hydrogen Technology</i>		3
<b>Jumlah Unit / <i>Total Units</i></b>			<b>45</b>

**\*\*Nota:** W = Wajib / *Compulsory*; P = Pilihan modul / *Elective module* AU – Audit / *Audit*

\*Subject to change