

## SARJANA KEJURUTERAAN (AWAM) MASTER OF ENGINEERING (CIVIL)

### Modul Program / *Course Modules*

<b>Kursus-Kursus Teras Umum / Core Courses</b>			
<b>Kod Kursus/ Course Code</b>	<b>Tajuk Kursus / <i>Course Name</i></b>	<b>Taraf Kursus/ Category</b>	<b>Unit/ Units</b>
KKKA6002	Kaedah Penyelidikan dan Inovasi <i>Research Methodology and Innovation</i>	W	2
KKKA6014	Pengurusan dan Projek Implementasi <i>Management and Project Implementation</i>	W	4
CMIE	Kursus Keusahawanan <i>Entrepreneuership Electives</i>	P	3
LMCM	Bahasa Melayu Bahasa Asing <i>Compulsory for international candidates</i>	AU	-
KKKA6004	Projek Penyelidikan 1 <i>Research Project 1</i>	W	4
KKKA6008	Projek Penyelidikan 2 <i>Research Project 2</i>	W	8

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<b>Modul Kejuruteraan Struktur dan Pembinaan Komposit / Structural and Composite Constructions Module</b>			
<b>Kod Kursus/ Course Code</b>	<b>Tajuk Kursus / <i>Course Name</i></b>	<b>Taraf Kursus/ Category</b>	<b>Unit/ Units</b>
KKKA6103	Teori Struktur Lanjutan <i>Advanced Theory of Structures</i>	WM	3
KKKA6143	Kaedah Unsur Terhingga <i>Finite Element Method</i>	WM	3
KKKA6223	Beban Ekstrem pada Struktur <i>Extreme Loading on Structures</i>	EM	3
KKKA6183	Konkrit Prategasan Lanjutan <i>Advanced Prestressed Concrete</i>	EM	3
KKKA6193	Forensik, Penilaian dan Penyelenggaraan Struktur Konkrit <i>Forensic, Assessment and Maintenance of Concrete Structures</i>	EM	3
KKKA6573	Kejuruteraan Jambatan <i>Bridge Engineering</i>	EM	3
KKKA6503	Cerun Dan Struktur Penahan <i>Slopes and Retaining Structures</i>	EM	3
KKKA6263	Inovasi dalam Pembinaan Komposit <i>Innovation in Composite Constructions</i>	WM	3
KKKA6493	Reka Bentuk Struktur Komposit Keluli & Konkrit <i>Design of Steel and Concrete Composite</i>	WM	3

KKKA6283	Bangunan Tinggi dan Kejuruteraan Angin <i>Tall Buildings and Wind Structures</i>	EM	3
KKKA6173	Reka Bentuk Konkrit Tetulang Lanjutan <i>Advanced Reinforced Concrete Design</i>	EM	3
KKKA6203	Binarium <i>Constructionarium</i>	EM	3
KKKA6553	Kejuruteraan Asas Tapak Lanjutan <i>Advanced Foundation Engineering</i>	EM	3

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<b>Modul Kejuruteraan Sumber Air Lestari / <i>Sustainable Water Resources Engineering Module</i></b>			
<b>Kod Kursus/ <i>Course Code</i></b>	<b>Tajuk Kursus / <i>Course Name</i></b>	<b>Taraf Kursus/ <i>Category</i></b>	<b>Unit/ <i>Units</i></b>
KKKA6303	Hidrologi Air Permukaan <i>Surface Water Hydrology</i>	WM	3
KKKA6443	Kimia dan Ekologi Air Semulajadi <i>Natural Water Chemistry and Ecology</i>	WM	3
KKKA6363	Pengangkutan sedimen <i>Sediment Transport</i>	EM	3
KKKA6833	Pengurusan Air Ribut <i>Stormwater Management</i>	EM	3
KKKA6083	Kejuruteraan Air Bawah Tanah Lanjutan <i>Advanced Ground Water Engineering</i>	EM	3
KKKA6953	Perancangan Sumber Air <i>Water Resources Planning</i>	WM	3
KKKA6463	Plan Kawalan Hakisan dan Sedimentasi <i>Erosion and Sediment Control Plan</i>	WM	3
KKKA6453	Permodelan Kualiti Air <i>Water Quality Modelling</i>	EM	3
KKKA6483	Kejuruteraan Pantai <i>Coastal Engineering</i>	EM	3
KKKA6403	Pengurusan Sisa Pepejal Perbandaran <i>Municipal Solid Waste Management</i>	EM	3
KKKA6443	Analisis Risiko Sekitaran dan Kuantitatif <i>Environmental Risk Analysis and Quantitative</i>	EM	3
KKKA6473	Pengurusan dan Kejuruteraan Air Lestari <i>Sustainable Water Management and Engineering</i>	EM	3
KKKA6623	Teknologi Geospasial <i>Geospatial Engineering</i>	EM	3
KKKA6433	Kejuruteraan Sungai <i>River Engineering</i>	EM	3

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<b>Modul Kejuruteraan Geoteknik / Geotechnics Engineering Module</b>			
<b>Kod Kursus/ Course Code</b>	<b>Tajuk Kursus / Course Name</b>	<b>Taraf Kursus/ Category</b>	<b>Unit/ Units</b>
KKKA6503	Cerun Dan Struktur Penahan <i>Slopes and Retaining Structures</i>	WM	3
KKKA6613	Ujian Makmal dan Instrumentasi di Lapangan <i>Laboratory Test and Field Instrumentation</i>	WM	3
KKKA6313	Dinamik Tanah <i>Soil Dynamics</i>	EM	3
KKKA6143	Kaedah Unsur Terhingga <i>Finite Element Method</i>	EM	3
KKKA6083	Kejuruteraan Air Bawah Tanah Lanjutan <i>Advanced Ground Water Engineering</i>	EM	3
KKKA6113	Mekanik Tanah Lanjutan <i>Advanced Soil Mechanics</i>	WM	3
KKKA6553	Kejuruteraan Asas Lanjutan <i>Advanced Foundation Engineering</i>	WM	3
KKKA6583	Kejuruteraan Geo-Sekitaran Lanjutan <i>Advanced Geoenvironmental Engineering</i>	EM	3
KKKA6203	Binarium <i>Constructionarium</i>	EM	3
KKKA6623	Teknologi Geospasial <i>Geospatial Technologies</i>	EM	3
KKKA6463	Plan Kawalan Hakisan dan Sedimentasi <i>Erosion and Sediment Control Plan</i>	EM	3

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<b>Modul Kejuruteraan Pengangkutan / Transports Engineering Module</b>			
<b>Kod Kursus/ Course Code</b>	<b>Tajuk Kursus / Course Name</b>	<b>Taraf Kursus/ Category</b>	<b>Unit/ Units</b>
KKKA6703	Sistem Pengurusan Lalu Lintas Pintar <i>Intelligent Traffic Management System</i>	WM	3
KKKA6743	Perancangan Pengangkutan Bandar dan Operasi <i>Urban Transportation Planning and Operation</i>	WM	3
KKKA6753	Operasi Pengangkutan dan Pengurusan Sistem <i>Transport Operation and System Management</i>	EM	3
KKKA6763	Asfalt dalam Pembinaan Jalan Raya <i>Asphalts in Road Construction</i>	EM	3

KKKA6143	Kaedah Unsur Terhingga <i>Finite Element Method</i>	EM	3
KKKA6783	Teori Aliran Lalu Lintas Lanjutan dan Analisis Pemodelan <i>Advanced Theory of Traffic Flow and Modelling Analysis</i>	WM	3
KKKA6793	Ekonomi Pengangkutan, Harga dan Kewangan <i>Transport Economics, Pricing and Finance</i>	WM	3
KKKA6673	Perancangan Bandar Mapan <i>Sustainable Urban Planning</i>	EM	3
KKKA6873	Permintaan Kembara Lanjutan, Pemodelan dan Analisis <i>Advanced Travel Demand, Modelling and Analysis</i>	EM	3
KKKA6623	Teknologi Geospasial <i>Geospatial Technologies</i>	EM	3
KKKA6203	Binarium <i>Constructionarium</i>	EM	3

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