

**Struktur Kursus Kejuruteraan Awam**  
*Civil Engineering Course Structure*

<b>Semester</b>	<b>Kod Kursus/ Course Code</b>	<b>Kategori/ Category</b>	<b>Nama Kursus/ Course Title</b>
I	KKCE1112	WJ	Pengaturcaraan untuk Jurutera <i>Programming for Engineers</i>
	KKCE1122	WJ	Dinamik Kejuruteraan <i>Engineering Dynamics</i>
	KKCE1133	WJ	Statik Kejuruteraan <i>Engineering Statics</i>
	KKKQ1123	WF	Matematik Kejuruteraan I (Kalkulus Vektor) <i>Engineering Mathematics I (Vector Calculus)</i>
	LMCE1062 LMCE1072 LMCE1082	C2	Academic Interactions (MUET Band 3) Academic Literacy (MUET Band 4) Page to Stage (MUET Band 5&6)
	LMCK1621	C1	Etika dan Profesional (C1) <i>Ethical and Professional</i>
	LMXXXXX	C6	2 Kursus Luar Fakulti (Kursus Bebas) <i>2 Course Faculty Affairs (Free Flow Course)</i>
II	KKCE1223	WJ	Kejuruteraan Sekitaran Untuk Jurutera Awam <i>Environmental Engineering for Civil Engineer</i>
	KKCE1233	WJ	Mekanik Bendalir Untuk Kejuruteraan Awam <i>Fluid Mechanics for Civil Engineering</i>
	KKCE1244	WJ	Kejuruteraan Geomatik <i>Geomatics Engineering</i>
	KKCE1213	C5	Grafik Kejuruteraan Awam dan Permodelan Maklumat Bangunan <i>Civil Engineering Graphics and Building Information Modelling</i>
	KKKQ1223	WF	Matematik Kejuruteraan II (Aljabar Linear) <i>Engineering Mathematics II (Linear Algebra)</i>
	LMCW1022	CW	Asas Keusahawanan dan Inovasi <i>Entrepreneurship and Innovation Base</i>

III	KKCE2113	WJ	Mekanik Bahan <i>Mechanics of Materials</i>
	KKCE2123	WJ	Teknologi dan Bahan Pembinaan <i>Construction Materials and Technology</i>
	KKCE2133	WJ	Geologi dan Mekanik Tanah <i>Geology and Soil Mechanics</i>
	KKCE2143	WJ	Hidrologi Kejuruteraan & Sumber Air <i>Engineering Hydrology and Water Resources</i>
	KKKQ2123	WF	Matematik Kejuruteraan III (Persamaan Kebezaan) <i>Engineering Mathematics III (Differential Equation)</i>
	LMCE2082 LMCE2092 LMCE2103	C2	<i>Pro-Talk English (MUET Band 3)</i> <i>Speak to Persuade (MUET Band 4)</i> <i>Advanced Communication Project (MUET Band 5 &amp; 6)</i>
IV	KKCE2213	WJ	Analisis Struktur <i>Structural Analysis</i>
	KKCE2223	WJ	Kejuruteraan Pengangkutan <i>Transportation Engineering</i>
	KKKQ2023	CW	Statistik Kejuruteraan <i>Engineering Statistics</i>
	LMCW2143/ LMCMXXX3	CW	Falsafah dan Isu Semasa (Warganegara) / Bahasa Melayu Komunikasi 2 (Bukan Warganegara)
	LMCW2153/ LMCWXXX3	CW	Penghayatan Etika dan Peradaban (Warganegara) / Pengajian Malaysia 3 (Bukan Warganegara)

V	KKKF3283	C1	Etika Kejuruteraan dan Perkembangan Teknologi <i>Engineering Ethics and Technological Advancement</i>
	KKCE3112	WJ	Reka Bentuk Konkrit Bertetulang I <i>Reinforced Concrete Design I</i>
	KKCE3123	WJ	Rangkaian Bekalan Air dan Pambetungan <i>Water Supply and Sewerage Networks</i>
	KKCE3133	WJ	Kejuruteraan Lebuhraya <i>Highway Engineering</i>
	KKCE3143	WJ	Pengurusan Pembinaan <i>Construction Management</i>
	KKCE3153	WJ	Hidraulik Saluran Terbuka <i>Open Channel Hydraulic</i>
VI	KKKF3103	WF	Pengurusan Projek <i>Project Management</i>
	KKCE3213	C3	Analisis Berangka dan Kaedah Pengiraan <i>Numerical Analysis and Computational Methods</i>
	KKCE3223	WJ	Reka Bentuk Konkrit Bertetulang II <i>Reinforced Concrete Design II</i>
	KKCE3233	WJ	Reka Bentuk Struktur Keluli <i>Structural Steel Design</i>
	KKCE3243	WJ	Geoteknik <i>Geotechnics</i>
	KKCE3252	WJ	Projek Reka Bentuk Integrasi I <i>Integrated Design Project I</i>
Intersesi	KKKF3066	WF	Latihan Industri <i>Industrial Training</i>

VII	KKCE4144	WJ	Projek Reka bentuk Integrasi II <i>Integrated Design Project II</i>
	KKCE4123	C4	Ekonomi Kejuruteraan dan Penilaian Projek <i>Engineering Economics and Project Evaluation</i>
	KKCE4133	WJ	Projek Penyelidikan I <i>Research Project I</i>
	KKCE4113	WJ	Kejuruteraan Asas <i>Foundation Engineering</i>
	KKXXXXX3	P	Elektif I <i>Elective I</i>
VIII	LMCE3061 LMCE3071	C2	<i>Corporate Storytelling (MUET Band 3)</i> <i>Professional Communication (MUET Band 4)</i>
	KKCE4215	WJ	Projek Penyelidikan II <i>Research Project II</i>
	KKCEXXX3	P	Elektif II <i>Elective II</i>
	KKCEXXX3	P	Elektif III <i>Elective III</i>
	KKCEXXX3	P	Elektif IV <i>Elective IV</i>
<b>Kod Kursus</b> <i>Course Code</i>		<b>Kursus Elektif</b> <i>Elective Courses</i>	
KKKF4143		Kaedah Statistik untuk Data Analitik <i>Statistical Methods for Data Analytics</i>	
KKKF4153		Sains Data dan Isu Etika <i>Data Science and Ethical Issue</i>	
KKKF4043		Topik Terkini Kejuruteraan Mekanikal <i>Recent Topic in Mechanical Engineering</i>	
KKKF4553		Teknologi Komposit <i>Composite Technology</i>	
KKKF4743		Pengurusan Strategi Pembuatan <i>Manufacturing Strategy Management</i>	
KKCE4313		Kejuruteraan Awam Maritim <i>Maritime Civil Engineering</i>	
KKCE4323		Sistem Maklumat Geografi (GIS) <i>Geographical Information System (GIS)</i>	
KKCE4333		Analisis Geospasial <i>Geospatial Analysis</i>	
KKCE4343		Bangunan Pintar <i>Smart Building</i>	
KKCE4413		Teknologi Konkrit Lanjutan <i>Advanced Concrete Technology</i>	
KKCE4423		Reka Bentuk Sistem Bangunan Berindustri (IBS) <i>Design of Industrialised Building System (IBS)</i>	

KKCE4433	Reka Bentuk Konkrit Prategasan <i>Prestressed Concrete Design</i>
KKCE4443	Reka Bentuk Struktur Keluli Lanjutan <i>Advanced Structural Steel Design</i>
KKCE4453	Kestabilan Struktur Dan Dinamik <i>Dynamics and Structure Stability</i>
KKCE4463	Reka Bentuk Konkrit Bertetulang Lanjutan <i>Advanced Reinforced Concrete Design</i>
KKCE4513	Geoteknik Sekitaran <i>Environmental Geotechnics</i>
KKCE4523	Pembaikan Tanah <i>Soil Improvement</i>
KKCE4533	Cerun Dan Struktur Penahan <i>Slope and Retaining Structures</i>
KKCE4613	Pengurusan Sisa Pepejal <i>Solid Waste Management</i>
KKCE4623	Kejuruteraan Sungai <i>River Engineering</i>
KKCE4633	Kejuruteraan Air Bawah Tanah <i>Groundwater Engineering</i>
KKCE4643	Rawatan Air Sisa <i>Wastewater Treatment</i>
KKCE4653	Rawatan Air <i>Water Treatment</i>
KKCE4713	Perancangan Bandar Lestari <i>Sustainability Urban Planning</i>
KKCE4723	Pembinaan Jalanraya <i>Road Construction</i>
KKCE4733	Perancangan Pengangkutan Bandar <i>Urban Transport Planning</i>
KKCE4743	Audit Keselamatan Jalan <i>Road Safety Audit</i>
KKCE4753	Pengangkutan Rel <i>Railway Transportation</i>
KKCE5113	Analisis Struktur Lanjutan <i>Advanced Structural Analysis</i>
KKCE5123	Penilaian Dan Pemuliharaan Binaan Konkrit <i>Assessment and Retrofit of Concrete Structure</i>
KKCE5133	Penyiasatan Tapak <i>Site Investigation</i>
KKCE5143	Kaedah Unsur Terhingga <i>Finite Element Method</i>