

PROGRAMME STRUCTURE

BACHELOR OF CIVIL ENGINEERING

FIRST INTAKE: OCTOBER 2025/2026

COURSES COMPONENT	CONTENT	CREDIT								
University	GIG1012: Philosophy and Current Issues (Local)	2								
	GLT1049: Bahasa Melayu Komunikasi (International)									
	GIG1013: Appreciation of Ethics and Civilization 2	2								
	GIG1003: Basic Entrepreneurship Enculturation	2								
	English – GLT 1. English I 2. English II	4								
	Student Holistic Empowerment (SHE) – 4 Courses Cluster:	8								
	<table><tr><td>Cluster 1</td><td>Thinking Matters: Mind and Intellect</td></tr><tr><td>Cluster 2</td><td>Emotional, Physical, and Spiritual Intelligence: Mind, Body & Soul [GQX0056 KIAR is a compulsory course]</td></tr><tr><td>Cluster 3</td><td>Technology/Artificial Intelligence and Data Analytics: i-Techie</td></tr><tr><td>Cluster 4</td><td>Global Issues and Community Sustainability: Making the World a Better Place</td></tr></table>		Cluster 1	Thinking Matters: Mind and Intellect	Cluster 2	Emotional, Physical, and Spiritual Intelligence: Mind, Body & Soul [GQX0056 KIAR is a compulsory course]	Cluster 3	Technology/Artificial Intelligence and Data Analytics: i-Techie	Cluster 4	Global Issues and Community Sustainability: Making the World a Better Place
	Cluster 1		Thinking Matters: Mind and Intellect							
	Cluster 2		Emotional, Physical, and Spiritual Intelligence: Mind, Body & Soul [GQX0056 KIAR is a compulsory course]							
	Cluster 3		Technology/Artificial Intelligence and Data Analytics: i-Techie							
Cluster 4	Global Issues and Community Sustainability: Making the World a Better Place									
Co-curriculum	2									
Sub-total Credit		20								
Core	Faculty Core Courses	12								
	Department Core Courses	96								
Sub-total Credit		108								
Elective	Department Elective Courses	15								
	Specialization Courses	-								
Sub-total Credit		15								
TOTAL CREDIT		143								

YEAR	SEMESTER	COURSES COMPONENT	CODE	MODULE		CREDIT	TOTAL SEMESTER CREDIT
ONE (1)	01	UNIVERSITY: FIS/PEP/APK	GIG1003	ASAS PEMBUDAYAAN KEUSAHAWANAN	BASIC ENTREPRENEURSHIP ENCULTURATION	2	18
		UNIVERSITY: LANGUAGE	GLTXXX	BAHASA INGGERIS	ENGLISH I	2	
		FACULTY CORE	KIX1001	MATEMATIK KEJURUTERAAN 1	ENGINEERING MATHEMATICS 1	3	
		DEPARTMENT CORE	KIA1002	MEKANIK KEJURUTERAAN	ENGINEERING MECHANICS	3	
		DEPARTMENT CORE	KIA1003	BAHAN KEJURUTERAAN AWAM	CIVIL ENGINEERING MATERIALS	3	
		DEPARTMENT CORE	KIA1006	LUKISAN UNTUK JURUTERA AWAM DAN CAD	CIVIL ENGINEERING DRAWING AND CAD	3	
		UNIVERSITY: SHE	SHE	SHE (KLUSTER 1)	SHE (KLUSTER 1)	2	
	02	UNIVERSITY: FIS/PEP/APK	GIG1012 / GLT1049	FALSAFAH DAN ISU SEMASA (WARGANEGARA) BAHASA MELAYU ASAS (PELAJAR ANTARABANGSA SAHAJA)	PHILOSOPHY AND CURRENT ISSUES (MALAYSIAN) BASIC MALAY LANGUAGE (INTERNATIONAL)	2	18
		UNIVERSITY: LANGUAGE	GLTXXX	ENGLISH II	ENGLISH II	2	
		FACULTY CORE	KIX1002	MATEMATIK KEJURUTERAAN 2	ENGINEERING MATHEMATICS 2	3	
		DEPARTMENT CORE	KIA1004	MEKANIK BAHAN	MECHANICS OF MATERIALS	3	
		DEPARTMENT CORE	KIA1005	UKUR KEJURUTERAAN	ENGINEERING SURVEY	3	
		DEPARTMENT CORE	KIA1007	PENGATURCARAAN DAN SISTEM MAKLUMAT	PROGRAMMING AND INFORMATION SYSTEM	3	
		UNIVERSITY: SHE	SHE	SHE (KLUSTER 3)	SHE (KLUSTER 3)	2	
TWO (2)	03	UNIVERSITY: FIS/PEP/APK	GIG1013	PENGHAYATAN ETIKA DAN PERADABAN	APPRECIATION OF ETHICS AND CIVILISATIONS	2	18
		DEPARTMENT CORE	KIA2001	TEORI STRUKTUR	THEORY OF STRUCTURES	3	
		DEPARTMENT CORE	KIA2003	MEKANIK BENDALIR	FLUID MECHANICS	3	
		DEPARTMENT CORE	KIA2010	MEKANIK TANAH I	SOIL MECHANICS I	3	
		DEPARTMENT CORE	KIA2011	KEJURUTERAAN TURAPAN	PAVEMENT ENGINEERING	2	
		DEPARTMENT CORE	KIA2013	PRINSIP-PRINSIP KEJURUTERAAN ALAM SEKITAR	PRINCIPLES OF ENVIRONMENTAL ENGINEERING	3	
		UNIVERSITY: SHE	SHE	SHE (KLUSTER 4)	SHE (KLUSTER 4)	2	
	04	UNIVERSITY: KO-K	CC0	KO-KURIKULUM	CO-CURRICULUM	2	18
		FACULTY CORE	KIX2005	UNDANG-UNDANG, ETIKA DAN KEMAMPAANAN UNTUK JURUTERA	LAW, ETHICS AND SUSTAINABILITY FOR ENGINEERS	3	
		DEPARTMENT CORE	KIA2012	REKABENTUK KONKRIT BERTETULANG I	REINFORCED CONCRETE DESIGN I	3	
		DEPARTMENT CORE	KIA2005	SUMBER AIR	WATER RESOURCES	3	
		DEPARTMENT CORE	KIA2016	KEJURUTERAAN JALAN RAYA	HIGHWAY ENGINEERING	3	
		DEPARTMENT CORE	KIA2014	MEKANIK TANAH II	SOIL MECHANICS II	2	
		UNIVERSITY: SHE	SHE	SHE (KLUSTER 2)	SHE (KLUSTER 2)	2	

THREE (3)	05	FACULTY CORE	KIX2006	EKONOMI KEJURUTERAAN DAN PENGURUSAN PROJEK	ENGINEERING ECONOMICS AND PROJECT MANAGEMENT	3	18
		DEPARTMENT CORE	KIA3001	STATISTIK DAN TEKNIK BERANGKA	STATISTICS AND NUMERICAL TECHNIQUES	3	
		DEPARTMENT CORE	KIA3002	REKABENTUK STRUKTUR KELULI	STRUCTURAL STEEL DESIGN	3	
		DEPARTMENT CORE	KIA3016	ANALISIS STRUKTUR	STRUCTURAL ANALYSIS	3	
		DEPARTMENT CORE	KIA3010	KEJURUTERAAN GEOTEKNIKAL	GEOTECHNICAL ENGINEERING	3	
		DEPARTMENT CORE	KIA3011	HIDRAULIK SALURAN TERBUKA	OPEN CHANNEL HYDRAULICS	3	
	06	DEPARTMENT CORE	KIA2015	UKUR LAPANGAN	SURVEYING FIELDWORK	2	18
		DEPARTMENT CORE	KIA3003	KEJURUTERAAN TRAFIK	TRAFFIC ENGINEERING	3	
		DEPARTMENT CORE	KIA3006	KEJURUTERAAN ASAS	FOUNDATION ENGINEERING	3	
		DEPARTMENT CORE	KIA3012	REKABENTUK KONKRIT BERTETULANG II	REINFORCED CONCRETE DESIGN II	3	
		DEPARTMENT CORE	KIA3013	BEKALAN AIR DAN PEMBETUNGAN	WATER SUPPLY AND SEWERAGE	2	
		DEPARTMENT CORE	KIA3014	ASAS KELESTARIAN DALAM KEJURUTERAAN AWAM	FUNDAMENTALS OF SUSTAINABILITY IN CIVIL ENGINEERING	2	
		DEPARTMENT CORE	KIA3015	PENGURUSAN DAN TEKNOLOGI PEMBINAAN	CONSTRUCTION MANAGEMENT AND TECHNOLOGY	3	
SPECIAL SEMESTER	SS	DEPARTMENT CORE	KIA3008	LATIHAN INDUSTRI	INDUSTRIAL TRAINING	5	5
FOUR (4)	07	DEPARTMENT CORE	KIA4001	PROJEK TAHUN AKHIR (P)	FINAL YEAR PROJECT	3	15
		DEPARTMENT CORE	KIA4018	PROJEK REKABENTUK BERSEPADU I	INTEGRATED DESIGN PROJECT I	2	
		DEPARTMENT CORE	KIA4035	REKABENTUK KONKRIT PRATEGASAN	PRESTRESSED CONCRETE DESIGN	2	
		DEPARTMENT CORE	KIA4020	JURUTERA DAN MASYARAKAT	ENGINEERS AND SOCIETY	2	
		DEPARTMENT ELECTIVE	KIA4XXX	KURSUS ELEKTIF PROGRAM 1	PROGRAM ELECTIVE COURSE 1	3	
		DEPARTMENT ELECTIVE	KIA4XXX	KURSUS ELEKTIF PROGRAM 2	PROGRAM ELECTIVE COURSE 2	3	
	08	DEPARTMENT CORE	KIA4001	PROJEK TAHUN AKHIR (P)	FINAL YEAR PROJECT	3	15
		DEPARTMENT CORE	KIA4019	PROJEK REKABENTUK BERSEPADU II	INTEGRATED DESIGN PROJECT II	3	
		DEPARTMENT ELECTIVE	KIA4XXX	KURSUS ELEKTIF PROGRAM 1	PROGRAM ELECTIVE COURSE 1	3	
		DEPARTMENT ELECTIVE	KIA4XXX	KURSUS ELEKTIF PROGRAM 2	PROGRAM ELECTIVE COURSE 2	3	
DEPARTMENT ELECTIVE		KIA4XXX	KURSUS ELEKTIF PROGRAM 3	PROGRAM ELECTIVE COURSE 3	3		
TOTAL CREDITS FOR THE PROGRAMME							143

DEPARTMENT ELECTIVE COURSES

CODE	COURSE	CREDIT HOURS
KIA4005	Rekabentuk Struktur Keluli Lanjutan <i>Advanced Structural Steel Design</i>	3
KIA4006	Rekabentuk Kayu <i>Timber Design</i>	3
KIA4007	Kejuruteraan Angin dan Gempabumi <i>Wind and Earthquake Engineering</i>	3
KIA4008	Kejuruteraan Jambatan <i>Bridge Engineering</i>	3
KIA4036	Teknologi dan Kejuruteraan Konkrit <i>Concrete Engineering and Technology</i>	3
KIA4012	Kejuruteraan Batuan <i>Rock Engineering</i>	3
KIA4013	Pembaikan Tanah <i>Ground Improvements</i>	3
KIA4017	Teknik-teknik Kuantitatif dalam Pengurusan Pembinaan <i>Quantitative Techniques in Construction Management</i>	3
KIA4021	Konkrit Pra Tuang dan IBS <i>Precast Concrete and IBS</i>	3
KIA4022	Bangunan Hijau <i>Green Building</i>	3
KIA4023	Pembaikan dan Pemulihan <i>Repair and Rehabilitation</i>	3
KIA4024	Pengurusan dan Perawatan Sisa <i>Waste Management and Treatment</i>	3
KIA4025	Kawalan Hakisan dan Endapan <i>Erosion and Sediment Control</i>	3
KIA4026	Proses dan Pengurusan Pantai dan Pesisir <i>Coastal Processes and Management</i>	3
KIA4027	Penilaian Impak Alam Sekitar dan Sistem Pengurusan Persekitaran <i>Environmental Impact Assessment and Management Systems</i>	3
KIA4028	Hidrologi Lanjutan <i>Advanced Hydrology</i>	3
KIA4029	Hidraulik Lanjutan <i>Advanced Hydraulics</i>	3
KIA4030	Kecerdasan Buatan dalam Kejuruteraan Awam <i>Artificial Intelligence in Civil Engineering</i>	3
KIA4031	Sistem Transit Bandar Massa <i>Urban Mass Transit System</i>	3
KIA4032	Perancangan dan Audit Keselamatan Jalan Raya <i>Highway Planning and Road Safety Audit</i>	3
KIA4033	Sistem Pengangkutan Lanjutan <i>Advanced Transportation System</i>	3
KIA4034	Kejuruteraan Kualiti Air Permukaan <i>Surface Water Quality Engineering</i>	3