

PROGRAMME STRUCTURE: BACHELOR OF CIVIL ENGINEERING 2018/2019 SESSION

SEPTEMBER INTAKE

FACULTY OF ENGINEERING, UNIVERSITY OF MALAYA
KUALA LUMPUR, MALAYSIA

CURRICULUM STRUCTURE BACHELOR OF CIVIL ENGINEERING

SESSION 2018/2019

(SEPTEMBER INTAKE)

Course	Content	Credit Hours
University Courses	♦ Compulsory Courses:	
	Information Literacy	2
	 The Islamic and Asian Civilization (TITAS)* / 	2
	Basic Malay Language**	
	 Ethnic Relations* / Introduction to Malaysia** 	2
	Basic Entrepreneurship Culture	2
	Social Engagement	2
	English for Communication Programme	6
		4
	♦ Elective Course from Other Faculties	2
	♦ Co–Curriculum	2
	C. b. Tarad Cond's Harman	22
	Sub-Total Credit Hours	22
Faculty Courses	♦ Faculty Core Courses	22
	♦ Faculty Elective Course	2
	Sub-Total Credit Hours	24
Programme Courses	♦ Programme Core Courses	82
	♦Programme Elective Courses	15
	Sub-Total Credit Hours	97
	TOTAL CREDIT HOURS	143
		± 10

Notes:

- (1) *Compulsory for Local students.
- (2) ** Compulsory for International students.
- (3) Students are required to take a minimum of 6 credits of English course based on English Proficiency qualification (MUET/IELTS/TOEFL).

ACADEMIC PLANNER BACHELOR OF CIVIL ENGINEERING SESSION 2018/2019

YEAR 1								
CODE	COURSE	S1	S2	SS	TOTAL	PRE-REQUISITE		
UNIVERSITY (COURSES							
GIG 1001	The Islamic and Asian Civilizations (TITAS)*	2						
GLT 1017	Basic Malay Language**							
GIG 1002	Ethnic Relations*		2					
GIG 1006	Introduction to Malaysia**							
GIG 1004	Information Literacy		2					
GLT 10XX	English for Communication Programme 1	3						
	Sub-total	5	4	0	9			
FACULTY COF	RE COURSES							
KIX 1001	Engineering Mathematics I	3						
KIX 1002	Engineering Mathematics II		3					
KIX 1003	Thinking and Communication Skills		2					
	Sub-total	3	5	0	8			
PROGRAMM	E CORE COURSES							
KIA 1001	Drawing for Civil Engineers & Computer Programming	3						
KIA 1002	Engineering Mechanics	3						
KIA 1003	Civil Engineering Materials	3						
KIA 1004	Mechanics of Materials		3					
KIA 1005	Engineering Survey		3					
	Sub-total	9	6	0	15			
	Total	17	15	0	32			

Notes:

- (1) *Compulsory for Local students.
- (2) ** Compulsory for International students.
- (3) Students are required to take a minimum of 6 credits of English course based on English Proficiency qualification (MUET/IELTS/TOEFL).

YEAR 2							
CODE	COURSE	S1	S2	SS	TOTAL	PRE-REQUISITE	
UNIVERSITY	COURSES						
GLT 10XX	English for Communication Programme 2	3					
GIG 1003	Basic Entrepreneurship Culture	2					
GIG 1005	Social Engagement		2				
	Co-curriculum	2					
	Elective Courses (other faculty)	2	2				
	Sub-total	9	4	0	13		
FACULTY CO	RE COURSES						
KIX 2002	Engineering Economics Analysis		3				
	Sub-total	0	3	0	3		
PROGRAMIV	IE CORE COURSES						
KIA 2001	Theory of Structure	3				KIA1002,KIA1004	
KIA 2002	Soil Mechanics	3					
KIA 2003	Fluid Mechanics	3					
KIA 2004	Reinforced Concrete Design		3			KIA1002,KIA1004	
KIA 2005	Water Resources		3				
KIA 2006	Environmental Engineering and Sustainability		3				
KIA 2007	Laboratory A (Structures and Materials)		1				
KIA 2008	Laboratory B (Water and Environmental Engineering)		1				
KIA 2009	Survey Camp			2		KIA1005	
	Sub-total	9	11	2	22		
	To	tal 18	18	2	38		

YEAR 3									
CODE	COURSE	S1	S2	SS	TOTAL	PRE-REQUISITE			
UNIVERSITY COL	UNIVERSITY COURSES								
	-								
	Sub-total Sub-total	0	0	0	0				
FACULTY CORE O	COURSES								
KIX 2001	Integrated Design I	2							
KIX 2003	Law and Ethics in Engineering		2						
KIX 2004	Engineering Project Management	3							
KIX 3001	Integrated Design II		4			KIX2001			
	Sub-total	5	6	0	11				
PROGRAMME C	ORE COURSES								
KIA 3001	Statistics and Numerical Techniques	3							
KIA 3002	Structural Steel Design	3							
KIA 3003	Traffic Engineering	3							
KIA 3004	Construction Management and Technology	3							
KIA 3005	Hydraulics		3			KIA2003			
KIA 3006	Foundation Engineering		3			KIA2002			
KIA 3007	Laboratory C (Geotechnics and Transportations)	1							
KIA 3008	Industrial Training			5					
KIA 3009	Structural Analysis		3						
KIA 3010	Geotechnical Engineering		3			KIA2002			
	Sub-total Sub-total	13	12	5	30				
	Total	18	18	5	41				

YEAR 4							
CODE	COURSE		S1	S2	SS	TOTAL	PRE-REQUISITE
UNIVERSITY CO	DURSES						
	-						
	Sub-total		0	0	0	0	
FACULTY ELECT	TIVE COURSES						
	Elective Faculty		2				
	Sub-total		2	0	0	2	
PROGRAMME	CORE COURSES						
KIA 4001	Final Year Project		3P	3			
KIA 4002	Capstone Design Project			3			
KIA 4003	Advanced Reinforced Concrete Design		3				KIA2004
KIA 4004	Highway Engineering		3				
	Sub-total		9	6	0	15	
PROGRAMME	ELECTIVE COURSES						
KIA/KID 40XX	Elective 1		3				
KIA/KID 40XX	Elective 2		3				
KIA/KID 40XX	Elective 3			3			
KIA/KID 40XX	Elective 4			3			
KIA/KID 40XX	Elective 5			3			
	Sub-total		6	9	0	15	
		Total	17	15	0	32	
	TOTAL CREDIT						

LIST OF FACULTY ELECTIVE COURSE#:

CODE	COURSE	CREDIT
KIX3002	Engineering Entrepreneurship	2
KIX3003	Sustainable Engineering	2

LIST OF PROGRAMME ELECTIVE COURSES#:

CODE	COURSE	CREDIT
Structural a	and Material	
KIA 4005	Advanced Structural Steel	3
KIA 4006	Timber Design	3
KIA 4007	Wind and Earthquake Engineering	3
KIA 4008	Bridge Engineering	3
KIA 4009	Concrete Engineering and Technology	3
KIA 4010	Special Concrete	3
KIA 4011	Prestressed Concrete Design	3
Soil, Geote	chnical Engineering and Transport	
KIA 4012	Rock Engineering	3
KIA 4013	Ground Improvements	3
KIA 4014	Air Traffic Management	3
KIA 4015	Transportation and Highway Planning	3
Water and	 Environmental Engineering	
KID 4003	Water Supply Engineering	3
KID 4005	Advanced Hydrology Engineering	3
KID 4006	Surface Water Quality Engineering	3
KID 4007	Environmental Health Engineering	3
KID 4008	Environmental Impact Assessment	3
KID 4009	Solid & Hazardous Waste Management	3
KID 4010	Environmental Risk Management	3
KID 4011	Environmental Management System	3
KID 4012	Occupational, Safety and Health	3
KID 4013	Air Pollution and Control	3
KID 4014	Contaminant Transport	3
Mathemati	cs, Survey, and Management	
KIA 4016	GIS for Civil Engineering	3
KIA 4017	Quantitative Techniques in Construction Management	3

[#] The list of courses offered is subject to change.

GRADUATION REQUIREMENT CHART

BACHELOR OF CIVIL ENGINEERING

CODE	COURSE	CREDIT	PASSING GRADE	MARKING SCHEME			
UNIVERSITY CO	OURSES						
GIG 1001	The Islamic and Asian Civilizations (TITAS)*	2					
GLT 1017	Basic Malay Language**	2	С				
GIG 1002	Ethnic Relations*		_	MARKS	GRADE	GRADE	MEANING
GIG 1006	Introduction to Malaysia**	2	С	IVIANA	GNADL	POINTS	WILANING
GIG1003	Basic of Entrepreneurship Culture	2	С	90-100	A+	4.00	HIGH
GIG 1004	Information Literacy	2	С				DISTINCTION
GIG1005	Social Engagement	2	С	80-89 75-79	A A-	4.00 3.70	DISTINCTION DISTINCTION
GLT 10XX	English for Communication Programme	6	С	70-74	B+	3.30	GOOD
	Elective Course from Other Faculties	4	С	65-69	В	3.00	GOOD
	Co-Curriculum	2	С	60-64	B-	2.70	GOOD
	Sub-total Credit Hours	22	C	55-59	C+	2.30	PASS
	Sub-total Credit Hours	22		50-54	С	2.00	PASS
FACULTY COR	E COLIRSES			45-49 40-44	C- D+	1.70	FAIL FAIL
KIX 1001		3	С	35-39	D+ D	1.30 1.00	FAIL
KIX 1001	Engineering Mathematics I Engineering Mathematics II	3	С	0-34	F	0.00	FAIL
		+	_		1		
KIX 1003	Thinking and Communication Skills	2	С				
KIX 2001	Integrated Design I	3	С				
KIX 2002	Engineering Economic Analysis	2	С				
KIX 2003	Law and Ethics in Engineering		С				
KIX 2004	Engineering Project Management	3	С				
KIX 3001	Integrated Design II	4	С				
	Sub-total Credit Hours	22					
FACULTY ELEC	CTIVE COURSES						
	 List of Faculty Elective Courses#: KIX3002 – Engineering Entrepreneurship 						
	KIX3002 – Engineering Entrepreneurship KIX3003 – Sustainable Engineering	2	С				
	#subject to changes.						
	Sub-total Credit Hours	2					
22222444	CORE COURSE						
	CORE COURSES						
KIA 1001	Drawing for Civil Engineers & Computer Programming	3	С				
KIA 1002	Engineering Mechanics	3	С				
KIA 1003	Civil Engineering Materials	3	С				
KIA 1004	Mechanics of Materials	3	С				
KIA 1005	Engineering Survey	3	С				
KIA 2001	Theory of Structure	3	С				
KIA 2002	Soil Mechanics	3	С				
KIA 2003	Fluid Mechanics	3	С				

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KIA 2004	Reinforced Concrete Design	3	С		
KIA 2005	Water Resources	3	С	_	-
KIA 2006	Environmental Engineering and Sustainability	3	С	GRADE	REMARKS
KIA 2007	Laboratory A (Structures and Materials)	1	С	P K	Progressive Transfer of credit without grade
KIA 2008	Laboratory B (Water and Environmental Engineering)	1	С	K1	Exemption of course
KIA 2009	Survey Camp	2	С	I	Maybe given when:
KIA 3001	Statistics and Numerical Techniques	3	С		a) a student has not taken the
KIA 3002	Structural Steel Design	3	С		final examination for any
KIA 3003	Traffic Engineering	3	С		course in any semester due to medical
KIA 3004	Construction Management and Technology	3	С		reasons/compassionate
KIA 3005	Hydraulics	3	С		grounds and/or;
KIA 3006	Foundation Engineering	3	С		b) a student has not fulfill a part
KIA 3007	Laboratory C (Geotechnics and Transportations)	1	С		of the course requirement in a semester due to
KIA 3008	Industrial Training	5	С		a semester due to medical/compassionate
KIA 3009	Structural Analysis	3	С		grounds or by reasons
KIA 3010	Geotechnical Engineering	3	С		beyond the control of the
KIA 4001	Final Year Project	6	С		student which is acceptable
KIA 4002	Capstone Design Project	3	С		to the Committee of Examiners concerned.
KIA 4003	Advanced Reinforced Concrete Design	3	С	R	Given for a course which is
KIA 4004	Highway Engineering	3	С		audited that fulfils the minimum
	Sub-total Credit Hours	82			80% attendance requirement. No
				LID	credit is given for this grade
PROGRAMME	ELECTIVE COURSES			UR	Given for a course which is audited but does not fulfil the
KIA/KID 40XX	Elective 1	3	С		minimum 80% attendance
KIA/KID 40XX	Elective 2	3	С		requirement. No credit is given
KIA/KID 40XX	Elective 3	3	С		for this grade.
KIA/KID 40XX	Elective 4	3	С	W	Given for a course from which a
KIA/KID 40XX	Elective 5	3	С		student has withdrawn officially during a particular semester.
_	Sub-total Credit Hours	15		W1	Given for all courses where a
					student has officially withdrawn
					from a semester.
TOTAL CREDIT				W2	Given for all courses where a student has withdrawn officially
		143			from the University.