

FACULTY OF ENGINEERING, MULTIMEDIA UNIVERSITY (CYBERJAYA CAMPUS) - COURSE STRUCTURE

BACHELOR OF ENGINEERING (HONS) ELECTRICAL

November 2019 intake

CODE	SUBJECT	β YEAR			γ YEAR			δ YEAR			ε YEAR			Pre-requisite
		T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	
	Core:													
EMT1016	Engineering Mathematics I	3											-	
EEL1166	Circuit Theory	3											-	
EEE1016	Electronics I			3									-	
ECE1016	Computer and Program Design			3									-	
EEL1176	Field Theory			3									-	
EEE1026	Electronics II				3								EEE1016	
EEE1036	Digital Logic Design		3										-	
EMT1026	Engineering Mathematics II				3								EMT1016	
EEE1046	Electronics III					3							EEE1016	
EEL1016	Energy Conversion I				3								EEL1166	
EEL1196	Instrumentation & Measurements Techniques				3								EEL1166	
ECE1026	Algorithm and Data Structure				3								ECE1016	
EMT2036	Engineering Mathematics III					3							EMT1026	
ECE2216	Microcontroller and Microprocessor Systems					3							EEE1036	
EEL2186	Circuits and Signals					3							EEL1166	
EMF2016	Electromagnetics Theory					3							EEL1176	
EEL2026	Power Transmission and Distribution						3						EEL1166	
EEL3036	Power System Analysis							3					EEL1166, EEL1016	
EMT2066	Industrial Mathematics				3								EMT1026	
EEL2046	Energy Conversion II						3						EEL1016	
EEL3156	Renewable Energy Technology						3						EEL2046	
EEL2216	Control Theory							3					EMT1026, EEL2186	
EEE3076	Power Electronics					3							EEE1026	
EEL2066	Electrical Engineering Materials						3						-	
ETN3046	Analog and Digital Communications								3				EMT1026	
EEL3146	Electric Power Utilization and Installation									3			EEL1166	
EEL3136	Electrical Drives								3				EEE3076	
EEL3086	Switchgear and Protection										3		EEL3036	
EPE4036	Project											4	4	84 credit hours**, EPE3026
EEL4106	High Voltage Engineering												3	EEL1016
EEL4116	Power Stations												3	EEL3036
EPE3026	Industrial Training												5	78 credit hours (inclusive of credit transfers and Arts and Humanities subjects)
EEL4126	Power System Operation and Control										3			EEL3036
EPE3016	Capstone Project											3		70 credit hours
	Elective:*													
ECE3166	Advanced Microprocessors							3						ECE2216
ECE3186	Embedded IoT Systems and Application							3						ECE2216
EEL4236	Robotics & Automation										3			EEL2216
ETN3096	Digital Signal Processing										3			EMT1026, EEL2186
ECE3256	Cybersecurity										3			
ECE3066	AI System & Application										3			
	Arts and Humanities:													
MPU3123/ MPU3143	MPU-U1: TITAS (local)/ Bahasa Melayu Komunikasi 2 (international)			3										-
	MPU-U3:	3												
PWC1010	Workplace Communications	3												-
MPU3113/ MPU3173	MPU-U1: Hubungan Etnik (local)/ Pengajian Malaysia 3 (international)	3												-
EES3036	Project Management						1							60 credit hours
EES3016	Engineer and Society									3				60 credit hours
	MPU-U2: MPU-U2: Bahasa Kebangsaan A/ Foreign Language***/Entrepreneurship in Cross Border E- Commerce												3	-
BHM3086	Law for Engineers										3			-
	MPU-U4: Co-Curriculum						2							
	Total (139 credit hours)	15	3	12	15	6	15	15	9	15	16	5	13	139

*Elective subjects are subject to change by the faculty

Elective 1 (Trimester 2 of gamma year): Choose 1 subject

Elective 2 (Trimester 2 of epsilon year): Choose 1 subject

** Part1 - 84 credit hours (excluding Arts and Humanities subjects),

** Part 2- EPE3026 Industrial Training and EPE4036 Project Part 1

*** Malaysian who have fulfilled the Bahasa Malaysia requirement (either having passed Bahasa Malaysia with a credit at SPM level; or having passed the MPU3213 Bahasa Kebangsaan A shall be required to take 3CH MPU U2 subject. If they tend to take foreign language course which is not their native language and they have no formal education.

SUBJECT CODE	SUBJECT NAME	CH
MPU-U2 (FOM)		
MPU3213	Entrepreneurship In Cross Border E-Commerce	3
MPU3212	Business And Entrepreneurship In Malaysia	3

SUBJECT CODE	SUBJECT NAME	CH
MPU-U3		
MPU3353	Introduction to Malaysian Economy	3
MPU3313	Islamic Institutions In Malaysia	3
MPU3323	Introduction to Multicultural Studies in Malaysia	3