

B.Eng.(Hons) Electrical: March 2019/2020 Intake Onwards

	β YEAR						γ YEAR						δ YEAR						ε YEAR						
	TRI-3		TRI-1		TRI-2		TRI-3		TRI-1		TRI-2		TRI-3		TRI-1		TRI-2		TRI-3		TRI-1		TRI-2		
CORE	Digital Logic Design	3	Engineering Mathematics I	3	Engineering Mathematics II	3	Engineering Mathematics IV	3	Engineering Mathematics III	3	Electrical Engineering Materials	3	Control Theory	3	Analog and Digital Communications	3	Switchgear & Protection	3	Industrial Training	5	Project	4	Project	4	
			Electronics I	3	Electronics II	3	Electronics III	3	Microcontroller and Microprocessor Systems	3	Power Transmission & Distribution	3	Electrical Drives	3	Power System Analysis	3	Electric Power Utilization & Installation	3			Power Stations	3	Power System Operation & Control	3	
			Circuit Theory	3	Energy Conversion I	3			Circuits and Signals	3	Energy Conversion II	3	Renewable Energy Technology	3			Capstone Project	3			High Voltage Engineering	3			
			Field Theory	3	Instrumentation & Measurement Techniques	3			Electromagnetic Theory	3															
			Computer & Program Design	3	Algorithms and Data Structures	3			Power Electronics	3															
ELECTIVE*										Advanced Microprocessors	3												Robotics & Automation	3	
										Embedded IoT Systems and Application	3													Digital Signal Processing	3
																								AI System & Application	3
																									Cybersecurity
ARTS & HUMANITIES										Workplace Communications	3				Law for Engineers	3	MPU-U1: Hubungan Etnik (local)/ Pengajian Malaysia 3 (international)	3			MPU-U2: Bahasa Kebangsaan A/ Foreign Language**	3	MPU-U4 Co-Curriculum	2	
															Engineer and Society	3	Project Management	1			MPU-U1: TITAS (local)/ Bahasa Melayu Komunikasi 2 (international)	3	MPU-U3	3	
Total (139 credit hours)		3		15		15		6		15		15		9		12		13		5		16		15	

*Elective subjects are subjected 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

** Malaysians 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 a 3CH MPU U2 subject. Student who opt to take a foreign language course within the MPU U2 category must ensure that he/she does not have formal education in the chosen foreign language.

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
MPU3333	Stress and Well-Being Among Malaysians	3