

B.Eng.(Hons) Electrical: June 2019 Intake Onwards

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

*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