

## B.Eng.(Hons) Electrical: November 2019 Intake Onwards

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

\*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
<b>MPU-U2 (FOM)</b>		
MPU3213	Entrepreneurship In Cross Border E-Commerce	3
MPU3212	Business And Entrepreneurship In Malaysia	3

SUBJECT CODE	SUBJECT NAME	CH
<b>MPU-U3</b>		
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