

B.Eng.(Hons) Electronics majoring in Nanotechnology: 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	Electronics II	3	Digital Logic Design	3	Engineering Mathematics III	3	Solid State Electronics	3	Industrial Mathematics	3	Analog & Digital Communications	3	Semiconductor Devices	3	Industrial Training	5	Project	4	Project	4	Data Communications and Computer Networking	3
	Circuit Theory	3	Engineering Mathematics II	3	Electronics III	3	Microcontroller and Microprocessor Systems	3	Computer Organization and Architecture	3	Control Theory	3	Optoelectronics Devices	3	Advanced Fabrication Technology	3			Digital Integrated Circuits	3	N/MEMS	3	Nanoelectronic Materials and Devices	3
	Electronics I	3	Algorithm and Data Structure	3			Circuits and Signals	3	Microelectronic Circuit Analysis and Design	3					Nano-Science	3			Diagnostic Technologies	3				
	Computer and Program Design	3	Introduction to Machines and Power Systems	3			Electromagnetic Theory	3	Advanced Microprocessors	3					Capstone Project	3			Nanoelectronic Materials and Devices	3				
	Field Theory	3	Instrumentation & Measurement Techniques	3																				
ELECTIVE*									Advanced Microprocessors	3			Multimedia Technology & Applications	3										
									Embedded IoT Systems and Application	3			Power Electronics	3										
									Cybersecurity	3			AI System & Application	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**/U2(FOM)	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		16		12		3

*Elective subjects are subjected to change by the faculty
 Elective 1 (Trimester 2 of gamma year): Choose 1 subject
 Elective 2 (Trimester 1 of delta 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