

**B.Eng.(Hons) Electronics majoring in Nanotechnology: November 2019 Intake Onwards**

	β YEAR						γ YEAR						δ YEAR						ε YEAR					
	TRI 2 Long - Nov		TRI 3 Short - Mac		TRI 1 Long - July		TRI 2 Long - Nov		TRI 3 Short - Mac		TRI 1 Long - July		TRI 2 Long - Nov		TRI 3 Short - Mac		TRI 1 Long - July		TRI 2 Long - Nov		TRI 3 Short - Mac		TRI 1 Long - July	
CORE	Engineering Mathematics I	3	Digital Logic Design	3	Electronics I	3	Engineering Mathematics II	3	Data Communications and Computer Networking	3	Engineering Mathematics III	3	Solid State Electronics	3	Industrial Mathematics	3	Optoelectronics Devices	3	Project	4	Industrial Training	5	Project	4
	Circuit Theory	3			Computer and Program Design	3	Electronics II	3	Electronics III	3	Microcontroller and Microprocessor Systems	3	Computer Organization and Architecture	3	Control Theory	3	Diagnostic Technologies	3	N/MEMS	3			Digital Integrated Circuits	3
					Field Theory	3	Algorithm and Data Structure	3			Circuits and Signals	3	Microelectronic Circuit Analysis and Design	3			Capstone Project	3	Semiconductor Devices	3			Nanoelectronic Materials and Devices	3
							Introduction to Machines and Power Systems	3			Electromagnetic Theory	3	Advanced Fabrication Technology	3					Nano-Science	3				
							Instrumentation & Measurement Techniques	3			Analog & Digital Communications	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	Workplace Communications	3											Project Management	1			Law for Engineers	3	MPU-U4: Co-Curriculum	2				
	MPU-U1: Hubungan Etnik (local)/ Pengajian Malaysia 3 (international)	3			MPU-U1: TITAS (local)/ Bahasa Melayu Komunikasi 2 (international)	3											Engineer and Society	3					MPU-U2: Bahasa Kebangsaan A/ Foreign Language***/ Entrepreneurship in Cross Border E-Commerce	3
	MPU-U3	3																						
TOTAL (139 CREDITS)		15		3		12		15		6		15		16		6		18		15		5		13

HOURS)																			
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\*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
<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