

BACHELOR OF ENGINEERING (HONS) ELECTRONICS MAJORING IN NANOTECHNOLOGY

CODE	SUBJECT	β YEAR			γ YEAR			δ YEAR			ε YEAR			Pre-requisite
		T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	
	<b>Core:</b>													
EMT1016	Engineering Mathematics I	3											-	
EEL1166	Circuit Theory	3											-	
EEE1016	Electronics I			3									-	
ECE1016	Computer and Program Design			3									-	
EEL1176	Field Theory			3									-	
EEE1026	Electronics II				3								EEE1016	
EEE1036	Digital Logic Design		3										-	
EMT1026	Engineering Mathematics II				3								EMT1016	
EEE1046	Electronics III					3							EEE1016	
ECE1026	Algorithm and Data Structure				3								ECE1016	
EEL1206	Introduction to Machines and Power Systems				3								EEL1166	
EEL1196	Instrumentation & Measurement Techniques				3								EEL1166	
ECE2056	Data Communications and Computer Networking					3							EEE1036	
EMT2036	Engineering Mathematics III						3						EMT1026	
ECE2216	Microcontroller and Microprocessor Systems						3						EEE1036	
EEL2186	Circuits and Signals						3						EEL1016	
EMF2016	Electromagnetics Theory						3						EEL1176	
ENT2016	Solid State Electronics							3					EEE1026	
ECE2046	Computer Organization and Architecture							3					EEE1036	
EMT2066	Industrial Mathematics								3				EMT1026	
EEL2216	Control Theory									3			EMT1026, EEL2186	
EEE2146	Microelectronic Circuit Analysis & Design							3					EEE1016, EEL1166	
ENT3036	Semiconductor Devices										3		ENT2016	
ENT3076	Nano-Science											3	ENT2016	
EOP3026	Optoelectronics Devices											3	EEN1016	
EPE3016	Capstone Project												70 credit hours	
ETN3046	Analog and Digital Communication						3						EMT1026	
ENT4086	Diagnostic Technology											3	-	
ENT4046	N/MEMs											3	-	
EEE4166	Digital Integrated Circuits												3 EEE2146, EEE1036	
EPE4036	Project											4	84 credit hours**, EPE3026	
ENT4066	Nanoelectronic Materials and Devices												3 ENT2016, ENT3036	
EPE3026	Industrial Training											5	78 credit hours	
ENT3056	Advanced Fabrication Technology								3					
	<b>Elective 1:*</b>													
ECE3166	Advanced Microprocessors								3				ECE2216, ECE1016	
ECE3186	Embedded IoT Systems and Application								3					
ECE3256	Cybersecurity								3					
	<b>Elective 2:*</b>													
EEE3076	Power Electronics											3	EEE1026	
ECE3086	Multimedia Technology and Applications											3	ECE1016	
ECE3066	AI System & Application											3		
	<b>Arts and Humanities:</b>													
	MPU-U1													
MPU3123/ MPU3143	TITAS (local)/Bahasa Melayu Komunikasi 2 (international)			3									-	
PWC1010	Workplace Communication	3											-	
EES3016	Engineer and Society											3	-	
	MPU-U1: Hubungan Etnik (local)/Pengajian Malaysia (international)	3											-	
EES3036	Project Management							1					-	
	MPU-U2: Bahasa Kebangsaan A/ Foreign Language***/Entrepreneurship in Cross Border E-Commerce												3 -	
BHM3086	Law for Engineers											3	-	
	MPU-U3:	3											-	
	MPU-U4: Co-Curriculum											2	-	
	Total (139 credit hours)	15	3	12	15	6	15	16	6	18	15	5	13	139

\* Elective subjects are subject to change by the faculty

Elective 1 (T5) : Choose 1 subject

Elective 2 (T7) : Choose 1 subject

\*\* Part1 - 84 credit hours (excluding Arts and Humanities subjects),

\*\* Part 2- EPE3026 Industrial Training and EPE4036 Project Part 1

\*\*\* 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
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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