

FACULTY OF ENGINEERING, MULTIMEDIA UNIVERSITY (CYBERJAYA CAMPUS) - COURSE STRUCTURE

BACHELOR OF ENGINEERING (HONS) ELECTRONICS MAJORING IN NANOTECHNOLOGY

(June 2019 intake) Year 1 in June 2019

CODE	SUBJECT	β YEAR			γ YEAR			δ YEAR			ε YEAR			Pre-requisite
		T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	
	<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											-	
EEE026	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					EEE2056, ENT2016	
EPE3016	Capstone Project								3				70 credit hours	
ENT2046	Analog and Digital Communication							3					EMT1026	
ENT4086	Diagnostic Technology									3			-	
ENT4046	N/MEMs										3		-	
EEE4166	Digital Integrated Circuits										3		EEE2146, EEE1036	
EPE4036	Project									4	4		84 credit hours**, EPE3026	
ENT4066	Nanoelectronic Materials and Devices										3	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							-	
ECE3246	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					-	
MPU3213	MPU-U2: Bahasa Kebangsaan A/ Foreign Language**/U2(FOM)									3			-	
BHM3086	Law for Engineers						3						-	
MPU3323	MPU-U3: Introduction to Multicultural Studies in Malaysia										3		-	
	MPU-U4: Co-Curriculum											2	-	
													-	
													-	
	<b>Total (139 credit hours)</b>	15	15	6	15	15	6	15	16	5	16	12	3 139	

\* Elective subjects are subject to change by the faculty

Elective 1 (T5) : Choose 1 subject

Elective 2 (T7) : Choose 1 subject

\*\* Part 1 - 84 credit hours (excluding Arts and Humanities subjects),

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