

**CURRICULUM BRIEF**  
**BACHELOR OF ELECTRONIC ENGINEERING (MICROELECTRONIC) WITH HONOURS**  
**FACULTY OF ELECTRICAL AND ELECTRONIC ENGINEERING**

YEAR	SEMESTER 1			SEMESTER 2			SEMESTER 3		
	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
1	UWB 1**02	** <i>Malay Language</i>	2	UWS 10303	** <i>Malaysian Studies and Culture</i>	3			
	UWS 10103	Nationhood and Current Development of Malaysia	3	UWB 10202	Effective Communication	2			
	UWB 10101	English for Academic Purposes	1	UWS 10202	Ethnic Relations	2			
	UQ*1xxx1	Co-Curriculum I	1	UQ*1xxx1	Co-Curriculum II	1			
	UWA 10102/ UWA 10202	Islamic Studies/Moral Studies	2	BWM10303	Engineering Mathematics II	3			
	BWM10103	Engineering Mathematics I	3	BEL10203	Analog Electronics	3			
	BEC10102	Computer Programming	2	BEE30403	Electrical Technology	3			
	BEE10202	Engineers and Society	2	BEE30501	Engineering Practice	1			
	BEL10103	Electric Circuits	3						
	TOTAL		19	TOTAL		18			

YEAR	SEMESTER 1			SEMESTER 2			SEMESTER 3		
	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
2	UWB 20302	Technical Writing	2	UWA 10302	Islamic and Asian Civilization	2			
	BWM20403	Engineering Mathematics III	3	BWM30602	Engineering Mathematics IV	2			
	BPK20802	Entrepreneurship	2	BPK30902	Engineering Economics	2			
	BEL20303	Digital Electronics	3	BEP20303	Electromagnetic Fields and Waves	3			
	BEK25503	Power Systems	3	BEC20202	Multimedia Technology and Application	2			
	BEE20801	Electronic Engineering Laboratory I	1	BEM22003	Instrumentation and Control Systems	3			
	BEN 20103	Semiconductor Electronic and Devices	3	BEE20901	Electronic Engineering Laboratory II	1			
		TOTAL		17	TOTAL		15		

YEAR	SEMESTER 1			SEMESTER 2			SEMESTER 3		
	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
3	UWB 1**02	Foreign Language	2	BEE30103	Engineering Management	3	BEE30304	Industrial Training (8 weeks)	4
	BEE 31202	Creativity and Innovation	2	BEP30503	Digital Signal Processing	3			
	BWM20502	Engineering Statistics	2	BEC30303	Computer Architecture and Organisation	3			
	BEP31803	Electronic Communication Systems	3	BEC30403	Microprocessor and Microcontroller	3			
	BEL30403	Electronic Circuit Analysis and Design	3	BEE31102	Electronic Engineering Laboratory IV	2			
	BEE31002	Electronic Engineering Laboratory III	2	BEN 30303	VLSI Design	3			
	BEN 30203	Digital IC Design	2						
	TOTAL		16	TOTAL		17			

YEAR	SEMESTER 1			SEMESTER 2			SEMESTER 3		
	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT
4	BEE40602	Final Year Project I	2	BEE40704	Final Year Project II	4			
	BEN 40403	Analog IC Design	3	BEN 40702	Semiconductor Material Analysis	2			
	BEN 40503	MEMS and NEMS Design	3	BEN 40802	Microelectronic Engineering Laboratory	3			
	BEN 40603	Micro Fabrication	2	BEN 40902	Photonic Devices	3			
	BEN 4**03	Elective I	3	BEN 4**05	Elective III	3			
	BEN 4**04	Elective II	3						
	TOTAL		16	TOTAL		15			

	CODE	COURSE	CREDIT
Elective I, II & III	BEN 41003	Advanced Semiconductor Devices	3
	BEN 41103	IC Packaging	3
	BEN 41203	Reliability and Failure Analysis	3
	BEN 41303	Material Characterization	3
	BEN 41403	IC Testability	3
	BEN 41503	Nanoelectronic Devices	3