

Courses to be Offered in Jan 2022 - Oct 2022  
 Bachelor of Engineering (Honours) Biomedical Engineering

COURSE CODE	COURSE DESCRIPTION	Trimester Offer			Pre-requisite
		Jan 2022	May 2022	Oct 2022	
	<b>Core:</b>				
UEMB1114	Anatomy and Physiology	√			
UECM1653	Mathematics for Engineering I	√	√		
UEMB1103	Hospital Management and Clinical Engineering		√		
UEMB1134	Thermo-Fluids		√		
UEEA1313	Basic Electronics		√		
UEME1323	Statics		√		
UEEA1243	Circuit Theory		√		
UEEA1493	Introduction to Electrical Machines and Power Systems			√	UEEA1243
UEME1143	Dynamics	√			
UEEA1253	Signals, Circuits and Systems	√			UEEA1243
UEEA1323	Digital Electronics	√			
UEMB2233	Biomedical Instrumentation	√			
UECS1643	Fundamentals of Programming		√		
UEME1263	Solid Mechanics I	√			UEME1323
UECM1713	Mathematics for Engineering II	√	√		UECM1653
UEME1253	Engineering Drawing and CAD		√		
UEMB2243	Biomechanics		√		
UEMB2323	Materials in Biomedical Engineering		√		
UEMB2223	Biochemistry and Molecular Biology	√			
UEMB3088	Integrated Design Project	√ (Part 1)	√ (Part 2)		Earned 70 credit hours
UEEA1333	Analogue Electronics	√			UEEA1313
UECM2623	Numerical Methods and Statistics	√			UECM1653
UEMB3244	Medical Imaging	√			UEEA1253
UEMB3213	Safety Design in Medical Devices	√			
UEMB3113	Artificial Organs			√	UEMB1134
UEMH3073	Artificial Intelligence		√		UECS1643
UEMH3163	Artificial Intelligence		√		UECM1713 or UECS1643
UEEA2634	Microprocessor and Microcontroller Systems		√		UEEA1323
UEME4253	Project Management		√		
UEEG2113	Law for Engineers		√		
UKMM1043	Basic Economics, Accounting and Management	√		√	
	<b>Project:</b>				
UEGE4116	Project	√	√		Earned 90 credit hours
UEGE4118	Project	√	√		Earned 90 credit hours
	<b>Industrial Training:</b>				
UEGE3116	Industrial Training			√	Earned 60 credit hours
	<b>Programme Elective: (Choose 2 courses)</b>				
UEMB4243	Telemedicine	√			UEEA1253
UEMB4193	Tissue Engineering	√			UEMB2323
UEMB4263	Advanced Biomechanics		√		UEMB2243
UEMB4223	Neurobiology		√		
UEMB4213	Advanced Tissue Engineering		√		UEMB4193
UEMB4523	Advanced Biomedical Instrumentation	√			UEMB2233
UEEN1043	Object-Oriented Concepts & Programming Techniques	√			UECS1643
UEMH4523	Micro-Electromechanical Systems (MEMS)		√		UEEA1243
	<b>General Elective: (Choose 1 course)</b>				
UJMG1003	Creative Thinking and Idea Generation			√	
UJMG1153	Communication in Interpersonal Relationships			√	
UKTR3013	Property Market Analysis			√	
UKMB1013	Principles of International Business			√	
UKTC1013	Cross-Cultural Management			√	
UECM2243	Data Analysis for Business Intelligence			√	
UECS2233	Electronic Commerce	√			
UEMH4283	Automation in the 4th Industrial Revolution		√		
ULUE1003	Confucianism in Modern Society			√	
UJGS2033	Cross-Cultural Interactive Communication			√	
UKTE2013	Entrepreneurship			√	
UECS2133	Digital Economy		√		
UKFF2143	Personal Financial Planning and Investment			√	
	<b>Compulsory:</b>				
MPU3113/ MPU3173	Hubungan Etnik (for local students) / Malaysian Studies (for international students) - MPU1	√	√		
MPU3123 / MPU3143	Tamadun Islam dan Tamadun Asia (for local students) / Bahasa Melayu Komunikasi 2 (for international students) - MPU1	√	√		
MPU32193	English for Professional Communications - MPU2	√	√		
MPU33183	Engineer in Society - MPU3	√			
MPU34xx2	Co-curricular - MPU4	√		√	
MPU32013 / UALXxxx3	Bahasa Kebangsaan (A) / Foreign Language	√			
UKMM1011	Sun Zi's Art of War and Business Strategies	√	√		

Note: The information in this document is subject to change by the faculty.