

Courses to be Offered in Jan 2021 - Oct 2021
 Bachelor Engineering (Honours) Biomedical Engineering

COURSE CODE	COURSE DESCRIPTION	Trimester Offer			Pre-requisite
		Jan 2021	May 2021	Oct 2021	
	Core:				
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	√	√		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
UEEA2634	Microprocessor and Microcontroller Systems		√		UEEA1323
UEME4253	Project Management		√		
UEEG2113	Law for Engineers		√		
UKMM1043	Basic Economics, Accounting and Management	√		√	
UEMB4083	Biomedical Engineering Design Project	√			
UEMB3103	Biomedical Instrumentation II			√	
	Project:				
UEGE4116	Project	√	√		Earned 90 credit hours
UEGE4118	Project		√		Earned 90 credit hours
	Industrial Training:				
UEGE3116	Industrial Training			√	Earned 60 credit hours
	Programme Elective: (Choose 2 courses) #				
UEMB4243	Telemedicine	√			UEEA1253
UEMB4193	Tissue Engineering	√	√		UEMB2323
UEMB4143	Nuclear Medicine				
UEMB4263	Advanced Biomechanics		√		UEMB2243
UEMB4133	Biosensors				
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
	General Elective: (Choose 1 course) #				
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			√	
UKFB3143	Personal Financial Planning and Management			√	
UKTE2013	Entrepreneurship			√	
UECS2133	Digital Economy		√		
	Compulsory:				
MPU3113/	Hubungan Etnik (for local students) /	√	√		
MPU3173	Malaysian Studies (for international students) - MPU1				
MPU3123 /	Tamadun Islam dan Tamadun Asia (for local students) /	√	√	√	
MPU3143	Bahasa Melayu Komunikasi 2 (for international students) - MPU1				
MPU32193	English for Professional Communications - MPU2	√	√		
MPU33183	Engineer in Society - MPU3	√			
MPU34xx2	Co-curricular - MPU4	√		√	
MPU32013 /	Bahasa Kebangsaan (A) /	√			
UALXxxx3	Foreign Language				
UKMM1011	Sun Zi's Art of War and Business Strategies	√	√		