

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

COURSE CODE	COURSE DESCRIPTION	Trimester Offer			Pre-requisite
		Jan 2022	May 2022	Oct 2022	
	Core:				
UEME1233	Manufacturing Technology I	√			
UEME1121	Mechanical Workshop Practice	√			
UEME1143	Dynamics	√			
UECM1653	Mathematics for Engineering I	√	√		
UEEA1323	Digital Electronics	√			
UEEA1313	Basic Electronics		√		
UEME1323	Statics		√		
UEEA1243	Circuit Theory		√		
UEME1253	Engineering Drawing and CAD		√		
UEMB1134	Thermo-Fluids		√		
UECM1713	Mathematics for Engineering II	√	√		UECM1653
UEEA1493	Introduction to Electrical Machines and Power Systems			√	UEEA1243
UEME2333	Mechanical Engineering Design	√			UEME1323
UEME3223	Computer Aided Design and Manufacture	√			UEME1253
UEEA1253	Signals, Circuits and Systems	√			UEEA1243
UEEA1333	Analogue Electronics	√			UEEA1313
UEME1343	Material Science and Engineering		√		
UECM2623	Numerical Methods and Statistics		√		UECM1653
UECS1643	Fundamentals of Programming		√		
UEMH3073	Artificial Intelligence		√		UECS1643
UEMH3163	Artificial Intelligence		√		UECM1713 or UECS1643
UEEA2634	Microprocessor and Microcontroller Systems		√		UEEA1323
UEMH4413	Sensors and Instrumentation	√			UEEA1243
UEMH4113	Automation and Robotics	√			UEEA3423
UEME4253	Project Management		√		
UEEA3423	Control Systems		√		UECM1713
UEMH3103	Digital Control Theory	√			UEEA1253
UEMH3088	Mechatronics System Design	√ (Part 1)	√ (Part 2)		UEME3223 and earned 70 credit
UEEA2473	Power Electronics and Drives	√			UEEA1333
UEMH4333	Machine Vision		√		UEEA1253
UEMH4334	Machine Vision		√		UEEA1253
UEEG2113	Law for Engineers	√			
UKMM1043	Basic Economics, Accounting and Management	√		√	
UEMH3083	Mini Project	√			
	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)				
UEMH4223	Kinematics and Dynamics of Robot	√			UEEA3423
UEME4393	Quality and Reliability Engineering		√		UECM2623
UEMH4523	Micro-Electromechanical Systems (MEMS)		√		UEEA1243
UEME3133	Mechanics of Machines		√		UEME1143
UEEA4663	Embedded System Design		√		UEEA2634
UEMH4133	Modeling of Mechatronics Systems		√		UEMH4113
UEME3233	Mechanical Vibrations	√			UEME1143
UEEN1043	Object-Oriented Concepts & Programming Techniques	√			UECS1643
	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	√			
UKTE2013	Entrepreneurship			√	
ULUE1003	Confucianism in Modern Society			√	
UJGS2033	Cross-Cultural Interactive Communication			√	
UECS2133	Digital Economy		√		
UKFF2143	Personal Financial Planning and Investment			√	
	Compulsory:				
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.