Bachelor of Mechatronics Engineering Program (UMP-HsKA)

MATRICULATION/STPM/A-LEVEL

B. ENG. MECHATRONICS

BHM20/21

SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6	SEMESTER 7	SEMESTER 8	SEMESTER 9
	BHM1313 Electronics Engineering 1 (Fundamental) + Lab	BHM2323 Electronics Engineering 2 (Analog) + Lab	BHM2333 Electronics Engineering 3 (Digital) + Lab	BHM3313 Microcomputer Technology	BHM4103 Control Systems Engineering + Lab		BHM4904 Team Oriented Project Study	BHM4003 Information Systems
				BHM3703 Industrial 4.0			BHM3362 Industrial Concept Design	
BHM1103 Statics		BHM2103 Dynamics	BHM2212 Thermal-Fluid Engineering	BHM3722 SMD Technology	BHM4102 Finite Element Analysis	BHM3912 Internship	BHM3513 Manufacturing Quality Management + Lab.	BHM4942 Preparation for Bachelor Thesis
BHM1113 Engineering Materials	BHM1123 Mechanics of Materials	BHM2342 Mechanical and Electrical Components	BHM3323 Software Engineering	BHM3342 Product Development	BHM3321 Design Exercise	BHM3931 Internship Follow-up	BHM3602 Quality Inspection	BHM4914 Bachelor Thesis
BHM1612 CAD Modelling			BHM2403 Manufacturing Processes	BHM4401 Electronics in Mechatronic Systems	BHM3332 Sensor and Instrumentation Systems		BHMXXX3 Focus Module 2(a)	BHM4931 Final Examination (viva)
	BHM2003 Computer Programming	BHM2013 Programming for Eng.						
BHM1821 Engineering Workshop				BHM3352 Electrical Actuator and Small Drives	BHMXXX3 Focus Module 1(a)		BHMXXX3 Focus Module 2(b)	
BUM2143 Applied Calculus	BUM2153 Ordinary Differential Equations	BUM2443 Applied Statistics		BHM3012 Numerical Programming	BHMXXX3 Focus Module 1(b)			
			SS 1					
	UHD2333 German B1.1		UHD2363 German B2.2					
			SS 2					
UQA2002 Co-Curriculum	UHC2022 Ethics & Civilisation (PENGHAYATAN ETIKA DAN PERADABAN)		UGE2002 Technopreneurship	BHM3922 Internship Preparation	BHM4921 Engineers & Society			
UHC1012 Philosophy and Current Issue (FALSAFAH DAN ISU SEMASA)	UHS1032 Soft Skills				BHM3942 Engineering Communication			
UHD2313 German A1	UHD2323 German A2	UHD2343 German B1.2	UHD2353 German B2.1		BHM4911 Environment Safety & Health			
19	19	17	16	17	18	13	17	10
		3	3					

Microtechnology

Focus 1a: BHM3823 Hybrid Integration	Focus 2a: BHM3833 Microtechnology Lab
Focus 1b: BHM3813 Clean Room Technology	Focus 2b: BHM3843 Energy Harvesting for autonomous Microsystems

Robotics

Focus 1a: BHM3913 Math. Basics of Robotics and Image Proc.	Focus 2a: BHM3933 Control Systems Eng. 2
Focus 1b: BHM3923 Rapid Prototyping a. Manufacturing	Focus 2b: BHM3943 Robotics +Lab.

Flying Prof

Optional

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+ 6
152

VERSION 5.0