

BACHELOR OF ENGINEERING (MANUFACTURING) (HONOURS)

CURRICULUM STRUCTURE

Department of Manufacturing and Materials Engineering
Kulliyah of Engineering, International Islamic University Malaysia
Effective from Semester 1, 2015-2016 (Matric Number: 151xxxx)

SEMESTER I					SEMESTER II				
Code	Course Title	CHR	Pre-Req	Co-Req	Code	Course Title	CHR	Pre-Req	Co-Req
EECE 1311	Electric Circuits	3			EECE 1101	Electrical Engineering Lab	1		
MECH 1301	Statics	3			EECE 1312	Electronics	3		
MANU 1201	Engineering Drawing	2			EECE 1313	Programming for Engineers	3		
MATH 1310	Engineering Math I	3			MECH 1302	Dynamics	3		
LM 2026	Bahasa Melayu Kerjaya (Sains dan Teknologi)(Local)	2			MANU 1202	Workshop Technology	2	MANU 1201	
LM 1030	Bahasa Melayu 1 Untuk Pelajar Asing (Int'l)	1			MATH1320	Engineering Math II	3	MATH 1310	
CCHB 1011	Study Circle I	0.5			CCHB 1012	Study Circle II	0.5		
LE 4000	English for Academic Purposes	3			TQS 2000M	Tilawah II	1		
TQS 1000	Tilawah I	1				Total	16.5		
	TOTAL(Local)	17.5							
	TOTAL(Int'l)	16.5							
SEMESTER III					SEMESTER IV				
Code	Course Title	CHR	Pre-Req	Co-Req	Code	Course Title	CHR	Pre-Req	Co-Req
MATH2310	Differential Equation	3	MATH 1320		LM 1040	Bahasa Melayu 1 Untuk Pelajar Asing (Int'l)	1		
MECH 2344	Thermofluid Engineering	4			UNGS 2040	Islam, Knowledge and Civilization	3		
MANU 2311	Manufacturing Processes I	3	MANU 1202		CCFM 2052	Family Management & Parenting	0.5		
MATR 2381	Materials Science and Engineering	3			MATH 2330	Computational Method and Statistics	3	MATH 2310	
UNGS 2030	The Islamic Worldview (Bahasa)	3			MANU 2312	Manufacturing Processes II	3	MANU 2311	
CCLM 2051	Leadership and Management	0.5			MECH 2342	Mechanics of Materials	3		
	TOTAL	16.5			MANU 2101	Manufacturing Engineering Lab I	1	MANU 2311	MANU 2312 MATR 2381
					MANU 2313	Metrology and Measurement Systems	3	MANU 1202	
						TOTAL(Local)	16.5		
						TOTAL(Int'l)	17.5		

SEMESTER V					SEMESTER VI				
Code	Course Title	CHR	Pre-Req	Co-Req	Code	Course Title	CHR	Pre-Req	Co-Req
UNGS 2050	Ethics and Fiqh in Everyday Life	3			CCMT 3122	Taekwondo Skills II	0.5		
CCMT 3121	Taekwondo Skills I	0.5			MANU 3315	Production Tooling	3	MANU 2312	
MANU 3311	Mechanics of Machines and Vibration	3	MECH 2342 MATH 2310		MANU 3316	Computer Aided Design & Manufacturing	3	MANU 2312	
MANU 3317	Engineering Design and Product Development	3	MANU 2312		MANU 3300	Integrated Design Project	3	MANU 3317	
MANU 3313	Quality Control	3	MATH 2330/ MATH2320		MANU 3101	Manufacturing Engineering Lab II	1	MECH 2344	MANU 3316
MANU 3100	Seminar	1			MANU 3312	Design of Machine Components	3	MECH 2342	
MANU 3314	Project and Operations Management	3	MATH 2330		MANU 3318	Engineering Economics and Management	3	MANU 3314	
	TOTAL	16.5				TOTAL	16.5		

EITR 3551 Engineering Industrial Training in Short Semester [5 CHR]

SEMESTER VII					SEMESTER VIII				
Code	Course Title	CHR	Pre-Req	Co-Req	Code	Course Title	CHR	Pre-Req	Co-Req
MANU 4211	Technology Entrepreneurship	2	MANU 3318		GEN 4300	Engineering Ethics from Islamic Perspective	3		
MANU 4398	Project I	3			MANU 4399	Project II	3	MANU 4398	
MANU 4312	Production Planning and Control	3	MANU 3314		MANU 4315	Computer Integrated Manufacturing	3	MANU 3316, MANU 4314	
MANU 4101	Manufacturing Engineering Lab III	1	MANU 2313		MANU 4102	Manufacturing Engineering Lab IV	1	MANU 3311, MANU 4313 MANU 4314	
MANU 4313	Machine Tools	3	MANU 2313 MANU 3312		MANU 43xx	Elective II	3		
MANU 4314	Manufacturing Automation	3	MANU 3316		MANU 43xx	Elective III	3		
MANU 43xx	Elective I	3				TOTAL	16		
	TOTAL	18							

LIST OF ELECTIVES (3 CHR)

MANU 4341	Ergonomics and Workstation Design	MANU 4345	Metal Forming	MANU 4349	Quantitative Techniques
MANU 4342	FEA for Manufacturing Applications	MANU 4346	Nontraditional Machining	MANU 4350	Rapid Prototyping
MANU 4343	Metal Cutting	MANU 4347	Non Metallic Materials Processing	MANU 4351	Value Analysis and Value Engineering
MANU 4344	Micromanufacturing Technology	MANU 4348	Precision Engineering	MANU 4352	Special Topics in Advanced Manufacturing Engineering