

Lampiran III : Struktur Kurikulum Terkini



New Curriculum Structure
2011

Legend

KFD	Faculty Courses
HKU,ZEU,MPW	University Courses
POD	Service from other faculty
KRD	Mechatronic Core & Sharing Courses
KRD	Mechatronic Core Courses
KED	Electrical & Electronics Sharing Courses
KJD	Mechanical Sharing Courses

* Exemptions possible for Bachelor Programme
** Combined to get exemptions for Bachelor Programme

FACULTY : ENGINEERING
DIVISION : MECHATRONICS
PROGRAMME : DIPLOMA IN MECHTRONICS ENGINEERING (KR6704)

Year	Sem	Code	Courses	Credit Hours	L	T	P	Contact Hrs/week	Pre-Requisite	Practical Element	SLT
					/ weeks						
1	1 (14 weeks)	HKU 1111	Kepimpinan dan Kerja Berpasukan	1			2	2	-		
		ZEU 1113	Proficiency English I	3	3			3			
		**KFD 1113	Mathematics 1	3	3			3	-		140
		KFD 1134	Physics	4	3		2	5	-	Science Lab	166
		*KJD 1272	Engineering Drawing	2	1		2	3	-	Autocad	94
Total Credit Hours For Semester 1				13				16			
1	2 (14 weeks)	*MPW 1143 / MPW 1153	P. Islam / P. Moral	3	3			3	-		
		HKU 12111	Kokurikulum	1			2	2			
		ZEU 1223	Proficiency English II	3	3			3	ZEU 1113		
		**KFD 1213	Mathematics 2	3	3			3	KFD 1113		140
		KED 1112	Electronic Workshop	2	1		2	3		Workshop	72
*KRD 1213	Instrumentation & Measurements	3	3			3	-	Measurement Lab	152		
Total Credit Hours For Semester 2				15				17			
1	3 (7 weeks)	MPW 1113/MPW 1123	Bahasa Kebangsaan A/B	3	3			3	-		
Total Credit Hours For Semester 3				3				3			
2	1 (14 weeks)	**KFD 2113	Mathematics 3	3	3			3	KFD 1213		140
		*KJD 2143	Statics	3	3			3	KFD 1134		133
		KJD 2172	Computer Aided Design (CAD)	2	1		3	4	KJD 1272	CAD-IDEAS Lab	94
		*KJD 1281	Mechanical Workshop 1	1			3	3	-	Workshop	56
		*KED 2113	Circuit Theory 1	3	3			3	KFD 1213		131
KED 2123	Digital Electronics	3	3			3	-	Digital Lab	160		
Total Credit Hours For Semester 4				15				19			
2	2 (14 weeks)	*KRD 2223	Electrical Technology	3	3			3	-	Electrical Machine Lab	150
		KED 2234	Analog Electronics	4	3		2	5	KED 2113	Analog Lab + PSPICE Lab	160
		KED 2243	Microprocessor	3	3			3	KED 2123	Microprocessor Lab	154
		*KFD 2223	Computer Programming	3	2		2	4		C++ program	121
KJD 2243	Dynamics	3	3			3	KJD 2143		124		
Total Credit Hours For Semester 5				16				18			
2	3 (7 weeks)										
Total Credit Hours For Semester 6				-				-			
3	1 (14 weeks)	*MPW 1133	Pengajian Malaysia	3	3			3	-		
		KRD 3133	Programmable Logic Controller (PLC)	3	3			3	KED 2243	PLC Lab	123
		KRD 3143	Sensors & Actuators	3	3			3	KRD 2223	Automation Lab	124
		KED 2213	Signal & System	3	3			3			150
		POD 3123	Entrepreneurship	3	3			3	-		
*KJD 3181	Mechanical Workshop 2	1			3	3	KJD 1281	Workshop	80		
Total Credit Hours For Semester 7				16				18			
3	2 (14 weeks)	KRD 3253	Mechatronic System Design	3	3			3	KRD 3133		90
		KRD 3263	Robot Technology	3	3			3	KRD 3143	Robotic & CIM Lab	120
		KRD 3273	Control System	3	3			3	KED 2213	MATLAB Simulink	128
		KJD 3173	Mechanic of Machines	3	3			3	KJD 2243		135
KRD 3283	Mechatronic Engineering Project	3	3			3	Complete ALL courses until Year 3 Sem1	Final Eng. Project	112		
Total Credit Hours For Semester 8				15				15			
3	3 (12 weeks)	KFD 3346	Industrial Training	6	-	-	-	-	Completed ALL other courses		240
Total Credit Hours For Semester 9				6				-			
Total Credit Hours				99							