

NAME :
PROGRAMME : BACHELOR OF ENGINEERING (HONS.) MECHANICAL
INTAKE :
MATRICS NO :

Year	Sem	Code	Subjects	Credit Hours	Pre-requisite	Cummulative Credit Hours
Core Subject						
1	1 (14 weeks)	MPU 31xx	U1 (a)	3		3
		KJS 1223	Materials Science	3		6
		KFS 1113	Engineering Mathematics 1	3		9
		ZES 1133/1243	Technical English I/2	3	- / ZES 1133	12
		KJS 1123	Statics	3		15
		KJS 1132	Engineering Drawing	2		17
Total Credit				17		17
1	2 (14 weeks)	ZES 1243	Technical English II	3	ZES 1133	20
		MPU 33xx	U3	2		22
		KJS 2133	Dynamics	3	KJS 1123	25
		KJS 1214	Fluid Mechanics 1	4		29
		KFS 1213	Engineering Mathematics 2	3	KFS 1113	32
		Total Credit				15
1	3 (7 weeks)	KJS 1112	Mechanical Workshop	2		34
		KJS 1232	Computer Aided Design (CAD)	2	KJS 1132	36
Total Credit				4		36
2	1 (14 weeks)	MPU 31xx	U1 (b)	3		39
		KJS 2123	Thermodynamics 1	3		42
		KFS 2113	Engineering Mathematics 3	3	KFS 1213	45
		KJS 2143	Strength of Materials 1	3	KJS 1123	48
		KJS 2213	Manufacturing Process	3	KJS 1223	51
		Total Credit				15
2	2 (14 weeks)	KFS 2143	Computer Programming	3		54
		KJS 2243	Strength of Materials 2	3	KJS 2143	57
		KFS 2213	Engineering Mathematics 4	3	KFS 1213	60
		KJS 3133	Fluid Mechanics 2	3	KJS 1214	63
		KJS 2233	Mechanics of Machines	3	KJS 2133& KJS 2143	66
		Total Credit				15
2	3 (7 weeks)	MPU 32xx	U2	2		68
		MPU 34xx	U4	2		70
Total Credit				4		70
3	1 (14 weeks)	KJS 2223	Electrical Technology	3		73
		KJS 3113	Industrial Instrumentation and Measurement	3		76
		KJS 3123	Thermodynamics 2	3	KJS 2123	79
		KJS 3143	Machine Design	3	KJS2233 & KJS2243	82
		KJS 3153	Occupational Safety and Health	3		85
		Total Credit				15
3	2 (14 weeks)	KJS 3213	Heat & Mass Transfer	3	KJS 2123	88
		KJS 3223	Product Design	3	KJS 3143	91
		KJS 3233	Electronics	3	KJS 2223	94
		KFS 3223	Engineering Management and Economics	3		97
		KJS 3243	Control System	3	KJS 2133	100
		Total Credit				15
3	3 (12 weeks)	KFS 3336	Industrial Training	6	min 100 credit hours (up to Year 3)	106
		Total Credit				6
4	1 (14 weeks)	KJS 4113	Computer Aided Engineering (CAE)	3	KJS 1232& KFS 2113	109
		KJS 4**3	Elective I	3		112
		KJS 4**3	Elective II	3		115
		KFS 4132	Final Year Project 1	2	Completed all Year 3 courses	117
		KJS 4273	Renewable and Sustainable Energy	3	KJS 3213	120
		Total Credit				14
4	2 (7 weeks)	KJS 4213	Mechanical Vibration	3	KJS 2133	123
		KFS 4234	Final Year Project 2	4	KFS 4132	127
		KJS 4263	Operation Management	3		130
		KJS 4**3	Elective III	3		133
Total Credit				13		133
4	3 (14 weeks)	KFS 3122	Entrepreneurship	2		135
		KFS 4122	Engineer & Society	2		137
Total Credit				4		137
Total Credit Hours (137)						
Elective Subject						
4	Thermofluids	KJS 4133	Internal Combustion Engines	3	KJS 3123	
		KJS 4143	Fluid Machineries	3	KJS 3133	
		KJS 4223	Refrigeration and Air Conditioning	3	KJS 3213	
		KJS 4233	Computational Fluid Dynamics (CFD)	3	KJS 3133	
	Materials	KJS 4153	Engineering Materials	3	KJS 1223	
		KJS 4243	Failure Analysis for Materials	3	KJS 1223& KJS 2243	
	Design and Manufacturing System	KJS 4183	Industrial Ergonomics	3		
		KJS 4253	Computer Aided Manufacturing (CAM)	3	KJS 1232& KJS 2213	
	Mechatronics	KRS 4133	Artificial Intelligence	3		
		KRS 4173	Microcontroller	3		
		KRS 3114	Sensor & Actuator	3		