

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
Total Credit				15		15
1	2 (7 weeks)	ZES 1243	Technical English II	3	ZES 1133	18
		MPU 32xx	U2	2		20
		KJS 1132	Engineering Drawing	2		22
Total Credit				7		22
1	3 (14 weeks)	MPU 33xx	U3	2		24
		KJS 2133	Dynamics	3	KJS 1123	27
		KJS 1214	Fluid Mechanics 1	4		31
		KFS 1213	Engineering Mathematics 2	3	KFS 1113	34
		KJS 1112	Mechanical Workshop	2		36
		KJS 1232	Computer Aided Design (CAD)	2	KJS 1132	38
Total Credit				16		38
2	1 (14 weeks)	MPU 31xx	U1 (b)	3		41
		KJS 2123	Thermodynamics 1	3		44
		KFS 2113	Engineering Mathematics 3	3	KFS 1213	47
		KJS 2143	Strength of Materials 1	3	KJS 1123	50
		KJS 2213	Manufacturing Process	3	KJS 1223	53
Total Credit				15		53
2	2 (7 weeks)	KFS 2143	Computer Programming	3		56
		MPU 34xx	U4	2		58
Total Credit				5		58
2	3 (14 weeks)	KFS 2213	Engineering Mathematics 4	3	KFS 1213	61
		KJS 3133	Fluid Mechanics 2	3	KJS 1214	64
		KJS 2223	Electrical Technology	3		67
		KJS 2233	Mechanics of Machines	3	KJS 2133& KJS 2143	70
		KJS 2243	Strength of Materials 2	3	KJS 2143	73
Total Credit				15		73
3	1 (14 weeks)	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				12		85
3	2 (12weeks)	KFS 3336	Industrial Training	6	min 100 credit hours (up to Year 3)	91
Total Credit				6		91
3	3 (14 weeks)	KJS 3213	Heat & Mass Transfer	3	KJS 2123	94
		KJS 3223	Product Design	3	KJS 3143	97
		KJS 3233	Electronics	3	KJS 2223	100
		KFS 3223	Engineering Management and Economics	3		103
		KJS 3243	Control System	3	KJS 2133	106
Total Credit				15		106
4	1 (14 weeks)		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		120
4	2 (7 weeks)	KFS 3122	Entrepreneurship	2		122
		KFS 4122	Engineer & Society	2		124
Total Credit				4		124
4	3 (14 weeks)	KJS 4213	Mechanical Vibration	3	KJS 2133	127
		KFS 4234	Final Year Project 2	4	KFS 4132	131
		KJS 4263	Operation Management	3		134
		KJS 4**3	Elective III	3		137
Total Credit				13		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		