

B. Tech Mechanical Engineering Curriculum

SEMESTER – I

S. No	Course No	Course Name	Category	L-T-P-C
1.	CS1100	Computational Engineering	BET	2-0-3-4
2.	CY1010	Chemistry – I (Physical & Theoretical)	SCY	2-1-0-3
3.	ID1100	Concepts in Engineering & Design	BET	3-0-0-3
4.	MA1010	Mathematics-I	SMA	3-1-0-4
5.	ME1120	Engineering Drawing	BES	1-0-3-3
6.	PH1010	Physics-I	SPH	2-1-0-3
7.	PH1030	Physics Lab	SPH	0-0-3-2
8.	WS1010	Workshop-I	BES	0-0-3-2
Total				24

SEMESTER – II

S. No	Course No	Course Name	Category	L-T-P-C
1.	AM1100	Engineering Mechanics	BET	3-1-0-4
2.	CY1020	Chemistry – II (Organic & Inorganic)	SCY	2-1-0-3
3.	CY1030	Chemistry Lab	SCY	0-0-3-2
4.	GN1100	Life skills	BES	2-0-0-2
5.	ID1200	Ecology and Environment	BET	2-0-0-2
6.	MA1020	Mathematics-II	SMA	3-1-0-4
7.	ME1100	Thermodynamics	BET	2-1-0-3
8.	PH1020	Physics – II	SPH	2-1-0-3
9.	WS1020	Workshop – II	BES	0-0-3-2
Total				25

SEMESTER –III

S. No	Course No	Course Name	Category	L-T-P-C
1.	AM2200	Strength of Materials	PMT	3-1-0-4
2.	AM2530	Foundations of Fluid Mechanics	PMT	3-1-0-4
3.	ME2050	Machine Drawing Practice	PMT	0-0-6-4
4.	EE1100	Basic Electrical Engineering	BET	3-0-0-3
5.	BT1010	Life Sciences	SLS	2-0-0-2
6.	MAE1	Mathematics Elective 1	SMA	3-0-0-3
7.	HSE1	Humanities Elective 1	HSS	3-0-0-3
Total				23

SEMESTER – IV

S. No	Course No	Course Name	Category	L-T-P-C
1.	AM2540	Applied Mechanics Lab	PML	0-0-3-2
2.	AM2220	Kinematics and Dynamics of Machinery	PMT	3-1-0-4
3.	ME2260	Materials and Design	PMT	3-1-0-4
4.	ME2280	Manufacturing Technology	PMT	4-0-0-4
5.	ME3170	Heat Transfer	PMT	3-1-0-4
6.	MAE2	Mathematics Elective 2	SMA	3-0-0-3
7.	HSE2	Humanities Elective 2	HSS	3-0-0-3
Total				24

SEMESTER - V

S. No	Course No	Course Name	Category	L-T-P-C
1.	ME2240	Instrumentation & Control	PMT	3-1-0-4
2.	ME3190	Machine Tools & Metrology	PMT	3-1-0-4
3.	ME3270	Mechanical Engineering Lab I	PML	0-0-3-2
4.	ME3310	Turbomachines	PMT	3-1-0-4
5.	ME3330	Internal Combustion Engines	PMT	3-0-0-3
6.	ME3350	Design of Machine Elements	PMT	3-1-0-4
7.	FRE1	Free Elective 1	FRE	3-0-0-3
			Total	24

SEMESTER – VI

S. No	Course No	Course Name	Category	L-T-P-C
1.	ME3212	Applied Thermal Engineering	PMT	3-1-0-4
2.	ME3214	Manufacturing Systems	PMT	3-0-0-3
3.	ME3280	Mechanical Engineering Lab II	PML	0-0-3-2
4.	DPE1	Department Elective 1	PMT	3-0-0-3
5.	FRE2	Free Elective 2	FRE	3-0-0-3
6.	FRE3	Free Elective 3	FRE	3-0-0-3
7.	ME3500	Industrial/Research Internship	PIT	- - - 2
			Total	20

SEMESTER-VII

S. No	Course No	Course Name	Category	L-T-P-C
1.	IL4020	Industrial Lecture	PIL	1-0-0-1
2.	ME3300	Mechanical Engineering Lab III	PML	0-0-3-2
3.	ME4545	Viva voce	PMP	- - - 2
4.	ME4550	Project I	PMP	- - - 3
5.	HSE3	Humanities Elective 3	HSS	3-0-0-3
6.	DPE2	Department Elective 2	PMT	3-0-0-3
7.	FRE4	Free Elective 4	FRE	3-0-0-3
			Total	17

SEMESTER -VIII

S. No	Course No	Course Name	Category	L-T-P-C
1.	ME4560	Project II	PMP	- - - 6
2.	DPE3	Department Elective 3	PMT	3-0-0-3
3.	DPE4	Department Elective 4	PMT	3-0-0-3
4.	HS3050	Professional Ethics	HPE	2-0-0-2
			Total	14

Total Credits 171