

## B.Tech Mechanical Engineering - Curriculum

### Semester - I

S.No	Course No	Course Name	L-T-P-C*
1	CS1100	Computational Engineering ( <a href="#">Syllabus</a> )	2-0-3-4
2	CY1010	Chemistry – I (Physical & Theoretical) ( <a href="#">Syllabus</a> )	2-1-0-3
3	ID1100	Concepts in Engineering & Design ( <a href="#">Syllabus</a> )	3-0-0-3
4	MA1010	Mathematics-I ( <a href="#">Syllabus</a> )	3-1-0-4
5	ME1120	Engineering Drawing ( <a href="#">Syllabus</a> )	0-0-3-3
6	PH1010	Physics-I ( <a href="#">Syllabus</a> )	2-1-0-3
7	PH1030	Physics Lab-I	0-0-3-2
8	WS1010	Workshop-I ( <a href="#">Syllabus</a> )	0-0-3-2

### Semester - II

S.No	Course No	Course Name	L-T-P-C*
1	AM1100	Engineering Mechanics ( <a href="#">Syllabus</a> )	3-1-0-4
2	CY1020	Chemistry – II (Organic & Inorganic) ( <a href="#">Syllabus</a> )	2-1-0-3
3	CY1030	Chemistry Lab – I ( <a href="#">Syllabus</a> )	0-0-3-2
4	GN1100	Life skills	2-0-0-2
5	ID1200	Ecology and Environment	2-0-0-2
6	MA1020	Mathematics-II ( <a href="#">Syllabus</a> )	3-1-0-4
7	ME1100	Thermodynamics ( <a href="#">Syllabus</a> )	2-1-0-3
8	PH1020	Physics – II ( <a href="#">Syllabus</a> )	2-1-0-3
9	WS1020	Workshop – II	0-0-3-2

### Semester - III

S.No	Course No	Course Name	L-T-P-C*
1	AM2200	Strength of Materials	3-1-0-4
2	AM2530	Foundations of Fluid Mechanics	3-1-0-4
3	ME2050	Machine Drawing Practice	0-0-6-4
4	EE100	Basic Electrical Engineering ( <a href="#">Syllabus</a> )	3-0-0-3
5	BT1010	Life Sciences	2-0-0-2
6	MAE1	Mathematics Elective 1 ( <a href="#">Syllabus</a> )	3-0-0-3
7	HSE1	Humanities Elective 1	3-0-0-3

### Semester - IV

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

**SEMESTER V**

No	Title	Credit
ME2240	Instrumentation & Control	4
ME3190	Machine Tools & Metrology	4
ME3270	Mechanical Engg Lab I	2
ME3310	Turbomachines	4
ME3330	Internal Combustion Engines	3
ME3350	Design of Machine Elements	4
MNS1	Minor Elective 1	3
	TOTAL	24

**SEMESTER VI**

No	Title	Credit
ME3250	Refrigeration & Air-conditioning	3
ME3260	Thermal Power Engineering	4
ME3280	Mechanical Engineering Lab II	2
ME3300	Mechanical Engg. Lab III	2
ME3500	Summer Training	2
DPE1	Department Elective 1	3
FRE1	Free Elective 1	3
HSE2	Humanities Elective 2	3
MNS2	Minor Elective 2	3
	TOTAL	25

**SEMESTER VII**

No	Title	Credit
HS3050	Professional Ethics	2
IL4020	Industrial Lecture	1
ME4545	Viva voce	2
ME4550	Project I	3
DPE2	Department Elective 2	3
DPE3	Department Elective 3	3
FRE2	Free Elective 2	3
MNS3	Minor Elective 3	3
SSE 1	Self Study Elective 1	3
	TOTAL	23

**SEMESTER VIII**

No	Title	Credit
ME4560	Project II	6
DPE4	Department Elective 4	3
HSE3	Humanities Elective 3	3
	TOTAL	12