Mechanical and Engineering

SEMESTER - I (Common for all B.Tech Courses)

S.No	C. Code	Course	L	T	P	C
1	MA 1XX	Linear Algebra: Theory and numerics	3	1.5	0	6
2		Introduction to Mechanical Engineering	3	0	0	6
3	CS101C	Computer Programming	3	0	2	9
4	ME201T	Engineering Mechanics	3	0	0	6
5		Formal and Technical communications	0	0	0	2
6	HS101T	Design Thiniking and Creativity	0	0	0	1
7	ME101L	hands on Engineering Laboratory	3	0	0	3
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
	First Semester Total Credits					35

Semester - II

S. No	Course Code	Course Name	L	T	P	C
1	MA XXX	Calculus and Vector Calculus	3	0	0	6
2		Enginering Gaphics	1.	0	3	6
3	ME206T	Therodynamics	3	0	0	6
4	CS101T	Data Structure and Algorithms	3	0	0	6
5	CS101L	Data Structure and Algorithms laboratory	3	0	0	3
6	ME204T	Manufacturing Processes-I	3	0	0	6
7		Engineering Metrology and Measurements	3	0	0	3
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
		Total Credits				38

Semester III

S.No	Course Code	Course Name	L	T	P	C
1		Introduction to Electrical and Electronics Circuits	3	0	0	6
2	ME 203	Fluid Mechanics	3	0	0	6
3	ME205T	Mechanics of Materials	3	0	0	6
4	ME202T	Engineering Materials	3	0	0	6
5	ME 2xxx	ODE's and Complex analysis	0	0	3	6
6		Machines Drowing and 3D modelling laboratory (New 5 Credit)	0	0	0	5
7	ME201L	manufacturing Processes and Metrology Laboratory	3	0	0	3
		Total Credits				38

Semester IV

S.No	Course Code	Course Name	L	T	P	C
1	ME209T	Heat Transfer	3	0	0	6
2	ME211T	Manufacturing Processes-II	3	0	0	6
3	ME207T	Mechanical Measurements	3	0	0	6

4	ME304T	Theory of Machines	3	0	0	6
5	ME 3XXX	PDF's For Engineers	3	0	0	6
6	ME204L	Solid Mechanics Laboratory	3	0	0	3
7	ME202L	Fluid Mechnics Laboratory	3	0	0	3
8		Dynamics and Vibrations (new)	3	0	0	6
		Total Credits				42

Semester V

S.No	Course Code	Course Name	L	T	P	C
1	ME306T	Design of Mechine Elements	3	0	0	6
2	EE205T	Introduction to Probability (1st half)	3	0	0	3
3	EE207T	Introduction to Data Analysis	3	0	0	3
4	HS201T	Economics	3	0	0	6
5	ME 3XXX	Numerical Methods for Engineers	3	0	0	6
6	ME301T	Applied Thermodynamics	3	0	0	6
7	ME203L	Mechanical Measurement Laboratory	3	0	0	3
8	ME205L	Heat Transfer Laboratory	3	0	0	3
9	ME206L	Manufacturing Processes Laboratory	3	0	0	3
		Total Credits				39

Semester VI

S.No	Course Code	Course Name	L	T	P	C
1	CE301T	Environmental Studies	3	0	0	6
2	ME208L	Control Systems and Laboratory	3	0	0	6
3		Thermal Engineering (New)	3	0	0	6
4		Operations Research and Industrial Engineering	3	0	0	6
5		Open Elective	3	0	0	6
6	ME302L	Applied Thermodynamics Laboratory	3	0	0	3
7	ME301L	Kinematics and Dynamics of Machinery Lab	3	0	0	3
8		Department Elective	3	0	0	6
		Total Credits				42

Semester VII

S.No	Course Code	Course Name	L	T	P	C
1		Department Elective	3	0	0	6
2		Department Elective	3	0	0	6
3		Open Elective	3	0	0	6
		Total Credits				18

Semester VIII

S.No	Course Code	Course Name	L	T	P	C
1		Department Elective	3	0	0	6
2		Open Elective	3	0	0	6
3		Open Elective	3	0	0	6
		Total Credits				18

Overal Credits Required (Minimum)	270