

Mechanical and Engineering

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

S.No	C. Code	Course	L	T	P	C
1	MA 101	Calculus	3	1	0	8
2	PH 101	Quantum Physics and Applications	2	1	0	6
3	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6
4	BB 103	Introduction to Modern biology	3	0	0	6
5	PH 113	Hands on Science Laboratory - I	0	0	3	3
6	CS 101	Computer Programming	3	0	2	8
7	HS 106	Design Thinking and Creativity	1	0	0	PP/NP
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
First Semester Total Credits						37

Semester - II

S. No	Course Code	Course Name	L	T	P	C
1	MA 102	Linear Algebra (1st Half)	3	1	0	4
2	MA 103	Differential Equations - I (2nd Half)	3	1	0	4
3	ME 111	Engineering Graphics Laboratory	1	0	3	5
4	EE 101	Introduction to Electrical and Electronics Circuits	3	0	0	6
5	CS 201	Data Structures and Algorithms	3	0	0	6
6	CS 211	Data Structures and Algorithms Laboratory	0	0	3	3
7	ME 113	Hands on Engineering Laboratory	0	0	3	3
8	ME 201	Engineering Mechanics	2	1	0	6
9	NO107/ NC	NSO/NSS/NCC/NCA	0	0	2	2
Total Credits						37

Semester III

S.No	Course Cod	Course Name	L	T	P	C
1	ME206T	Thermodynamics	2	1	0	6
2	ME208T	Fluid Mechanics	2	1	0	6
3	ME205T	Mechanics of Materials	2	1	0	6
4	ME204T	Manufacturing Processes - I	3	0	0	6
5	ME201C	Machine Drawing and 3D Modelling Laboratory	0	0	3	3
6	EE 221	Introduction to Probability (1st Half)	3	0	0	3
7	ME201L	Manufacturing processes and Metrology Laboratory	0	0	3	3

8	HS201T	Economics	3	0	0	6
		Total Credits				39
Semester IV						
S.No	Course Cod	Course Name	L	T	P	C
1	ME207T	Mechanical Measurements	3	0	0	6
2	ME202T	Engineering Materials	2	1	0	6
3	ME304T	Theory of Machines	2	1	0	6
4	ME209T	Heat Transfer	2	1	0	6
5	MA204T	Introduction to Numerical Linear Algebra (1st Half)	3	1	0	4
6	ME202L	Fluid Mechanics Laboratory	0	0	3	3
7	ME208L	Control Systems and Laboratory	2	0	2	6
		Total Credits				37
Semester V						
S.No	Course Cod	Course Name	L	T	P	C
1	ME211T	Manufacturing Processes - II	2	1	0	6
2	ME306T	Design of Machine Elements	3	0	0	6
3	ME301T	Applied Thermodynamics	3	0	0	6
4	ME205L	Heat Transfer Laboratory	0	0	3	3
5	ME204L	Solid Mechanics Laboratory	0	0	3	3
6	ME203L	Mechanical Measurements Laboratory	0	0	3	3
7	EE207T	Data Analysis (2nd Half)	3	0	0	3
8		Elective 1	3	0	0	6
		Total Credits				36
Semester VI						
S.No	Course Cod	Course Name	L	T	P	C
1	CE301T	Environmental Studies	3	0	0	6
2	ME301L	Kinematics and Dynamics of Machinery Laboratory	0	0	3	3
3	ME206L	Manufacturing processes Laboratory	0	0	3	3
4	ME302L	Applied Thermodynamics Laboratory	0	0	3	3
5	MA203T	Introduction to Numerical Methods (1st Half)	3	1	0	4
6		Elective Course from Physics Department	3	0	0	6
7		Elective 2	3	0	0	6
8		Elective 3	3	0	0	6
		Total Credits				37
Semester VII						

<u>S.No</u>	Course Cod	Course Name	L	T	P	C
1		Elective Course 4	3	0	0	6
2		Elective Course 5	3	0	0	6
3		Elective Course 6/ BTP	3	0	0	6
		Total Credits				18
Semester VIII						
<u>S.No</u>	Course Cod	Course Name	L	T	P	C
1		Elective Course 7	3	0	0	6
2		Elective Course 8 / BTP	3	0	0	6
		Total Credits				12
Overall Credits Required (Minimum)						253