

M.Tech Curriculum
Design and Manufacturing
 From Academic Year 2020-21

Semester - I

S. No.	Course No	Course Name	L-T-P-C
1.	MA5021	Linear Algebra for Engineers	2-0-0-2
2.	MA5023	Differential Equations for Engineers	2-0-0-2
3.	ME5101	Advanced Manufacturing Processes	3-0-0-3
4.	ME5103	Design for Manufacturing and Assembly	3-0-0-3
5.	ME5105	Mechanical Vibrations	3-0-0-3
6.	CE/ME5107	Advanced Mechanics of Solids	3-0-0-3
7.	ME5191	Design and Manufacturing Laboratory-1	0-0-3-2
Total			18

Semester - II

S. No.	Course No	Course Name	L-T-P-C
1.	ME5202	Product Design and Development	3-0-0-3
2.	ME5204	Finite Element Methods in Engineering Mechanics	3-0-0-3
3.	ME5206	Additive Manufacturing	3-0-0-3
4.	ME5210	Seminar	- - - 1
5.	ME5292	Design and Manufacturing Laboratory-2	0-0-3-2
6.	DPE	Department Elective	3-0-0-3
7.	FRE	Free Elective	3-0-0-3
Total			18

Semester - III

S. No	Course No	Course Name	L-T-P-C
1.	ME6111	Viva-Voce	- - - 2
2.	ME6150	Project Phase-I	- - - 10
Total			12

Semester - IV

S. No	Course No	Course Name	L-T-P-C
1.	ME6250	Project Phase-II	- - - 15
Total			15

Total Credits - 63

Department Electives

1. ME5023 Composite Materials
2. ME5024 CAD/CAM
3. ME5030 Welding Metallurgy
4. ME5XXX Metrology and Computer Aided Inspection
5. ME5031 Abrasive Machining and Finishing Processes
6. ME5221 Mechanics and Control of Robotic Manipulators
7. ME5222 Wheeled Mobile Robots