

**M.Tech Curriculum**  
**Design & Manufacturing**  
 From the Academic Year 2018-19

**Semester - I**

S.No.	Course No	Course Name	L-T-P-C
1.	ME5105	Mechanical Vibrations	3-0-0-3
2.	CE/ME5107	Advanced Mechanics of Solids	3-0-0-3
3.	ME5111	Additive Manufacturing	3-0-0-3
4.	E1	Elective -1	3-0-0-3
5.	ME5191	Laboratory-1	0-0-3-2
6.	MA5101	Mathematics for Engineers	3-1-0-4
<b>Total</b>			<b>17</b>

**Semester - II**

S.No.	Course No	Course Name	L-T-P-C
1.	ME5202	Product Design and Development	3-0-0-3
2.	ME5204	Advanced Manufacturing Processes	3-0-0-3
3.	ME5206	Design for Manufacturing and Assembly	3-0-0-3
5.	ME5102	Finite Element Methods in Engineering Mechanics	3-0-0-3
6.	E2	Elective -2	3-0-0-3
7.	ME5292	Laboratory-2	0-0-3-2
<b>Total</b>			<b>17</b>

**Semester - III**

S.No	Course No	Course Name	L-T-P-C
1.	ME6110	Seminar	--- 1
2.	ME6111	Viva-Voce	--- 2
3.	ME6150	Project Phase I	--- 10
<b>Total</b>			<b>13</b>

**Semester - IV**

S.No	Course No	Course Name	L-T-P-C
1.	ME6250	Project Phase II	0-0-0-15
<b>Total</b>			<b>15</b>

**Total Credits – 62**

**Electives**

1. ME5021 Fracture and Fatigue
2. ME5022 Advanced Engineering Dynamics
3. ME5023 Composite Materials
4. ME5024 CAD/CAM
5. ME5025 Numerical Modelling of Manufacturing Processes
6. ME5026 Non-linear Dynamics
7. ME5027 Continuum Mechanics
8. ME5028 Robotics and Manipulators
9. ME5101 Computational Fluid Dynamics
10. ME5103 Joining Technologies