

**M.Tech Curriculum**  
**Transportation and Infrastructure Engineering**  
 From Academic Year 2020-21

**Semester I**

S. No.	Course No.	Course Name	L-T-P-C
1	CE5117	Pavement Analysis and Design	3-0-0-3
2	CE5109	Traffic Engineering and Road Safety	3-0-0-3
3	CE5195	Pavement Engineering Laboratory	0-0-3-2
4	CE5197	Traffic Engineering Laboratory	0-0-3-2
5	DEP1	Department Elective-1	3-0-0-3
6	MAE1	Mathematics Elective-1	2-0-0-2
<b>Total</b>			<b>15</b>

**Semester II**

S. No.	Course No.	Course Name	L-T-P-C
1	CE5101	Pavement Materials and Construction	3-0-0-3
2	CE5022	Traffic Flow Modeling and Simulation	3-0-0-3
3	CE5206	Ground Improvement and Geosynthetics	3-0-0-3
4	DPE2	Department Elective-2	3-0-0-3
5	FRE1	Free Elective-1	3-0-0-3
6	MAE2	Mathematics Elective-2	3-0-0-3
<b>Total</b>			<b>18</b>

**Semester III**

S. No.	Course No.	Course Name	L-T-P-C
1	CE6110	Seminar	- - -1
2	CE6150	Project Phase-I	- - -10
<b>Total</b>			<b>11</b>

**Semester IV**

S. No.	Course No.	Course Name	L-T-P-C
1	CE6250	Project Phase-II	- - -15
2	FRE2	Free Elective-2	3-0-0-3
<b>Total</b>			<b>18</b>

**Total 62**

**Department Electives:**

- 1) CE5023 Integrated Impact Assessment
- 2) CE5026 GIS and Remote Sensing
- 3) CE5027 Geotechnical Investigations and Foundation Design
- 4) CE5031 Air Pollution Control Engineering
- 5) CE5034 Advanced Concrete Technology

**Mathematics Elective 1:**

- 1) MA5021 Linear Algebra for Engineers
- 2) MA5023 Differential Equations for Engineers
- 3) MA5022 Probability Theory for Engineers

**Mathematics Elective 2:**

- 1) MA5103 Statistical Methods for Engineers