

## M.Tech Program in (TRANSPORTATION ENGINEERING)

**M.Tech (Transportation Engineering) with CBCS Total Course Credit is 86.**

### SEMESTER I

Code	Course of Study	L	T	P	C	
CE601	Transportation Planning	3	1	0	4	C1
CE602	Advanced Civil Engineering Materials	3	1	0	4	C2
CE603	Pavement Analysis and Design	3	1	0	4	C3
	General Elective	3	1	0	4	GE1
	Elective – I	3	0	0	3	DSE1
CE604	Advanced Civil Engineering Materials Lab	1	0	2	2	C4
CE701	Seminar	0	0	3	2	SEC1
	General Proficiency				Non-Credit	
		<b>16</b>	<b>0</b>	<b>2</b>	<b>23</b>	

### SEMESTER II

Code	Course of Study	L	T	P	C	
CE605	Intelligent Transportation Systems	3	1	0	4	C5
CE606	Pavement Materials and Evaluation	3	1	0	4	C6
CE607	Airport Planning & Design	3	1	0	4	C7
	Elective – II	3	0	0	3	DSE2
CE608	Pavement Materials and Evaluation Lab	1	0	2	2	C8
CE702	Project	0	0	10	5	DP1
GP	General Proficiency				Non-Credit	
		<b>13</b>	<b>3</b>	<b>2</b>	<b>22</b>	

### SEMESTER III

Code	Course of Study	L	T	P	C	
CE609	Geometrical Design of Transportation facilities	3	1	0	4	C9
CE610	Hill Road Construction	3	1	0	4	C10
	Elective –III	3	0	0	3	DSE3
CE703	Dissertation (Part – I)	2	0	16	8	DP2
GP	General Proficiency				Non-Credit	
		<b>11</b>	<b>2</b>	<b>16</b>	<b>19</b>	

### SEMESTER IV

Code	Course of Study	L	T	P	C	
CE704	Dissertation (Part – II)	0	0	22	22	DP3
GP	General Proficiency				Non-Credit	

### **ELECTIVES (Semester I)**

<b>Code</b>	<b>Course of Study</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CE801	Geographical Information Systems and Remote Sensing	3	0	0	3
CE802	Planning, Design & Construction of Rural Road	3	0	0	3
CE803	Advanced Soil Mechanics	3	0	0	3

### **GENERAL ELECTIVES (Semester I)**

<b>Code</b>	<b>Course of Study</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
MA406	Operational research	3	0	0	3
MA507	Optimization Techniques	3	0	0	3
MA402	Modelling and Simulation	3	0	0	3

### **ELECTIVES (Semester II)**

<b>Code</b>	<b>Course of Study</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CE804	Bridge & Tunneling Engineering	3	0	0	3
CE805	Modelling Analysis and Simulation	3	0	0	3
CE806	Environmental Impact Assessment	3	0	0	3

### **ELECTIVES (Semester III)**

<b>Code</b>	<b>Course of Study</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CE807	Traffic Flow Theory	3	0	0	3
CE808	Transport Economics	3	0	0	3
CE809	Dock & Harbours Engineering	3	0	0	3

**Note:** Student may also choose any other elective courses relevant to their degree with the consent of the course coordinator.