



## Scheme of Examination for M. Tech Transportation Engineering Program SEMESTER WISE COURSE STRUCTURE

### First Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160108	Pavement Materials	4	0	0	4	40	60	100
2	13160109	Urban Transportation System Planning	4	0	0	4	40	60	100
3	13160110	Geometric Design of Transportation Facilities	3	0	0	3	40	60	100
4	13160111	Seminar	0	0	3	2	20	30	50
5	13160112	Pavement Materials Lab	0	0	2	1	20	30	50
6	13160113	Traffic Lab	0	0	2	1	20	30	50
7		Elective I	3	0	0	3	40	60	100
		<b>Total</b>	<b>14</b>	<b>0</b>	<b>7</b>	<b>21</b>	<b>220</b>	<b>330</b>	<b>550</b>

### Second Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160217	Analysis and Design of Pavement	4	0	0	4	40	60	100
2	13160218	Transport Economics	3	0	0	3	40	60	100
3	13160219	Traffic Engineering and Management	3	0	0	3	40	60	100
4	13160220	Pavement Design Lab	0	0	2	1	20	30	50
5	13160221	Comprehensive viva - voce	0	0	3	2	20	30	50
6		Elective II	3	0	0	3	40	60	100
		<b>Total</b>	<b>13</b>	<b>0</b>	<b>5</b>	<b>16</b>	<b>200</b>	<b>300</b>	<b>500</b>

### Third Semester

S. NO	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160310	Airport Infrastructure, Planning and Design	4	0	0	4	40	60	100
2		Elective – III	3	0	0	3	40	60	100
	13160314	Design lab	0	0	2	1	20	30	50
	13160315	Thesis - I	0	0	10	10	75	125	200
		<b>Total</b>	<b>7</b>	<b>0</b>	<b>12</b>	<b>18</b>	<b>175</b>	<b>275</b>	<b>450</b>

### Fourth Semester

S. NO	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
1	13160402	Thesis - II	0	0	15	15	130	170	300
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>15</b>	<b>130</b>	<b>170</b>	<b>300</b>

## List of Program Electives

S. NO	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Int.	Ext.	
<b>Elective-I</b>									
1	13160114	Bridge Engineering	3	0	0	3	40	60	100
2	13160115	Construction Project Management & BOT	3	0	0	3	40	60	100
3	13160116	Ground Improvement	3	0	0	3	40	60	100
4	13160117	Monte- Carlo Simulation in Engineering	3	0	0	3	40	60	100
<b>Elective-II</b>									
1	13160222	Highway Construction Practices	3	0	0	3	40	60	100
2	13160223	Mass and Multimodal Transportation System	3	0	0	3	40	60	100
3	13160224	Environmental Impact assessment and Auditing	3	0	0	3	40	60	100
<b>Elective-III</b>									
1	13160311	Pavement Evaluation, Rehabilitation and Maintenance	3	0	0	3	40	60	100
2	13160312	Rock Mechanics and Tunnelling	3	0	0	3	40	60	100
3	13160313	Road Traffic Safety	3	0	0	3	40	60	100
		<b>Total Credits</b> ( <i>students to opt for any 3 courses</i> )	<b>9</b>						

**Total Credit offer = 70**