SI. No.	Subject Code	SEMESTER I	L	Т	Р	С
1.	HS5111	Technical Writing and Soft Skill	1	2	2	4
2.	CE5111	Urban Transportation Planning	3	0	0	3
3.	CE5112	Pavement Analysis and Design	3	0	0	3
4.	CE5113	Traffic Engineering and Management and	3	0	3	4.5
5.	CE51XX/ CE61XX	DE-I (Transportation Elective)	3	0	0	3
6.	CE51XX/ CE61XX	DE-II (Transportation Elective/ Department Elective)	3	0	0	3
7.	XX61PQ	IDE	3	0	0	3
	TOTAL		19	2	5	23.5

M. Tech. in Transportation Engineering

Sl. No.	Subject Code	SEMESTER II	L	Т	Р	С
1.	CE5212	Highway Materials	3	0	3	4.5
2.	CE5213	Railway Engineering	3	0	0	3
3.	CE5214	Computer Applications in Transportation Engineering	2	1	0	3
4.	CE52XX/ CE62XX	DE-III (Transportation Elective)	3	0	0	3
5.	CE52XX/ CE62XX	DE-IV (Transportation Elective/ Department Elective)	3	0	0	3
6.	RM6201	Research Methodology	3	1	0	4
7.	IK6201	IKS	3	0	0	3
	TOTAL			2	3	23.5

SI. No.	Subject Code	SEMESTER III	L	Т	Р	С
1.	CE6198	Summer Internship/Mini Project*	0	0	12	3
2.	CE6199	Project I	0	0	30	15
	TOTAL		0	0	42	18

Sl. No.	Subject Code	SEMESTER IV	L	Т	Р	С
1.	CE6299	Project II	0	0	42	21
	TOTAL		0	0	42	21

Total Credit from Semester I to IV: 86

ELECTIVE GROUPS

	Department Elective - I (Transportation Elective)								
Sl. No.	Subject Code	Subject	L	Т	Р	С			
1.	CE6125	Bituminous materials	3	0	0	3			
2.	CE6126	Intelligent Transportation Systems	3	0	0	3			
3.	CE6127	Pavement Management Systems	3	0	0	3			

	Department Elective - II (Transportation Elective/ Department Elective)								
Sl. No.	Subject Code	Subject	L	Т	Р	С			
1.	CE6102	Sampling, Analytical Methods, and Statistics for Environmental Engineering	3	0	0	3			
2.	CE6106	Soil Dynamics	3	0	0	3			
3.	CE6107	Rock Slope Engineering	3	0	0	3			
4.	CE6108	Constitutive Modelling in Geotechnics	3	0	0	3			
5.	CE6111	Rock Mechanics	3	0	0	3			
6.	CE6113	Pavement Geotechniques	3	0	0	3			
7.	CE6114	Probalistic Methods in Geotechnical Engineering	3	0	0	3			

8.	CE6116	Bridge Engineering and Design	3	0	0	3
9.	CE6122	Advanced Concrete Technology	3	0	0	3
10.	CE6128	Highway Geometric Design and Safety	3	0	0	3
11.	CE6129	Airport Engineering	3	0	0	3
12.	CE6130	Analytical Methods in Civil Engineering	3	0	0	3

	Department Elective - III (Transportation Elective)									
Sl. No.	Subject Code	Subject	L	Т	Р	С				
1.	CE6227	Traffic Flow Theory	3	0	0	3				
2.	CE6228	Analytical Techniques for Infrastructure Systems Analysis	3	0	0	3				
3.	CE6229	Advanced Flexible Pavement Analysis and Design	3	0	0	3				

	Departm	ent Elective - IV (Transportation Elective/ D)epartn	nent El	ective)	
SI. No.	Subject Code	Subject	L	Т	Р	С
1.	CE5217	Geoinformatics for Engineers	3	0	0	3
2.	CE6206	Geotechnical Earthquake Engineering	3	0	0	3
3.	CE6208	Mine Wastes Generation and Management	3	0	0	3
4.	CE6209	Coupled Process in Fractured Geological Media	3	0	0	3
5.	CE6210	Ground Improvement Techniques	3	0	0	3
6.	CE6211	Utilization of industrial byproducts for geotechnical applications	3	0	0	3
7.	CE6213	Design of Underground Excavations	3	0	0	3
8.	CE6214	Special Topics in Geotechnical Engineering	3	0	0	3
9.	CE6215	Forensic Geotechnical Engineering	3	0	0	3
10.	CE6218	Finite Element Method	3	0	0	3
11.	CE6219	Structural Health Monitoring	3	0	0	3
12.	CE6223	Uncertainty, Risk and Reliability Analyses in Civil Engineering	3	0	0	3
13.	CE6230	Advanced Concrete Pavement Analysis and Design	3	0	0	3
14.	CE6231	Advanced Pavement Material Characterization	3	0	0	3