

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I M.TECH. TRANSPORTATION ENGINEERING

SEMESTER - I

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE54011	Traffic Analysis	3	-	-	3	-	70	30	-	-	100
2	CE50009	Advanced Concrete Technology	3	-	-	3	-	70	30	-	-	100
3	CE50015	Advanced Soil Mechanics and Foundation Engineering	3	-	-	3	-	70	30	-	-	100
4		Elective - I	3	-	-	3	-	70	30	-	-	100
5		Elective - II	3	-	-	3	-	70	30	-	-	100
6	CE54457	Soil Mechanics Lab	-	-	2	-	1	-	-	40	60	100
7	CE54458	Advanced Concrete Technology Lab	-	-	2	-	1	-	-	40	60	100
8	CE54459	Computing Techniques Lab	-	-	4	-	2	-	-	40	60	100
9	CE54498	Comprehensive Viva	-	-	-	-	-	-	-	-	100	100
Total			15	0	8	15	4	350	150	120	280	900

SEMESTER - II

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE54516	Design and Construction of Rigid Pavement	3	-	-	3	-	70	30	-	-	100
2	CE54517	Design and Construction of Flexible Pavement	3	-	-	3	-	70	30	-	-	100
3	CE54518	System Analysis and Urban Transportation	3	-	-	3	-	70	30	-	-	100
4		Elective - III	3	-	-	3	-	70	30	-	-	100
5		Elective - IV	3	-	-	3	-	70	30	-	-	100
6	CE54856	Seminar	-	-	2	-	1	-	-	50	-	50
7	CE54857	Term Paper	-	-	2	-	1	-	-	50	-	50
8	CE54858	Minor Project	-	-	4	-	2	-	-	40	60	100
9	CE54898	Comprehensive Viva	-	-	-	-	-	-	-	-	100	100
Total			15	0	8	15	4	350	150	140	160	800

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I M.TECH. TRANSPORTATION ENGINEERING
List of Electives

SEMESTER - I

S.No.	Subject Code	Elective I
1	CE54214	Railway & Airport Infrastructure Planning & Design
2	CE54212	Finite Element Method
3	CE54213	Instrumentation and Experimental Techniques

S.No.	Subject Code	Elective II
1	CE54314	Bridge and Tunnel Engineering
2	CE54312	Quality and safety in Construction
3	CE54313	Research Methodology

SEMESTER - II

S.No.	Subject Code	Elective III
1	CE54715	Transportation Geotechnics
2	CE54712	Intelligent Transportation System
3	CE54713	Analysis & Design of Bridges

S.No.	Subject Code	Elective IV
1	CE54761	Transportation Planning and Infrastructure Design
2	CE54762	Advanced Construction Practices
3	CE54763	Numerical & System Methods

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SEMESTER - III

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE54931	*Industrial Training	-	-	8	-	4	-	-	50	-	50
2	CE54932	Dissertation Phase-I	-	-	20	-	10	-	-	40	60	100
3	MA54902	**Research Methodology & IPR	2	-	-	2	-	70	30	-	-	100
Total			2	0	28	2	14	70	30	90	60	250

* Industrial training to be carried out between II and III semester during vacation

** This course can be studied online with prior permission of HOD, however, End-semester examination will be conducted in the Institute.

SEMESTER - IV

S.No.	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE54952	Dissertation Phase-II	-	-	32	-	16	-	-	80	120	200
Total			0	0	32	0	16	0	0	80	120	200