

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

## SEMESTER - I

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE54001	Traffic Analysis	3	0	0	3	0	70	30	0	0	100
2	CE50004	Concrete Technology and Composites	3	0	0	3	0	70	30	0	0	100
3	CE50005	Advanced Soil Mechanics and Foundation Engineering	3	0	0	3	0	70	30	0	0	100
4		Elective - I	3	0	0	3	0	70	30	0	0	100
5		Elective - II	3	0	0	3	0	70	30	0	0	100
6	CE54454	Soil Mechanics Lab			2		1			40	60	100
7	CE54455	Concrete lab			2		1			40	60	100
8	CE54456	Computing Techniques Lab			4		2			40	60	100
9	CE54500	Comprehensive Viva				-	-	-	-	-	Grade	Grade
Total			15	0	8	15	4	350	150	120	180	800

## SEMESTER - II

S. No.	Sub. Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			TH	CW	SW	Pr.	Total
1	CE54506	Design and Construction of Rigid Pavement	3	0	0	3	0	70	30	0	0	100
2	CE54507	Design and Construction of Flexible Pavement	3	0	0	3	0	70	30	0	0	100
3	CE54508	System Analysis and Urban Transportation	3	0	0	3	0	70	30	0	0	100
4		Elective - III	3	0	0	3	0	70	30	0	0	100
5		Elective - IV	3	0	0	3	0	70	30	0	0	100
6	CE54853	Seminar			2		1			50	0	100
7	CE54854	Term Paper			2		1			50	0	100
8	CE54855	Minor Project			4		2			40	60	100
9	CE54900	Comprehensive Viva					0			0	Grade	Grade
Total			15	0	8	15	4	350	150	140	60	800

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## SEMESTER - I

S. No.		Elective I
1	CE54201	Airport Infrastructure Planning and Design
2	CE54202	Finite Element Method
3	CE54203	Instrumentation and Experimental Techniques

S. No.		Elective II
1	CE54301	Railway Infrastructure Planning and Design
2	CE54302	Quality and safety in Construction
3	CE54303	Research Methodology

## SEMESTER - II

S. No.		Elective III
1	CE54704	Bridge and Tunnel Engineering
2	CE54702	Intelligent Transportation System
3	CE54703	Analysis & Design of Bridges

S. No.		Elective IV
1	CE54751	Transportation Planning and Infrastructure Design
2	CE54752	Advanced Construction Practices
3	CE54753	Numerical & System Methods

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**Semester: III**

S. No.	Sub. 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	0	50
2	CE54932	Dissertation Phase - I			20		10			40	60	100
3	MA54902	**Research Methodology & IPR	2			2	0	70	30			0
<b>TOTAL</b>			<b>2</b>	<b>0</b>	<b>28</b>	<b>2</b>	<b>14</b>	<b>70</b>	<b>30</b>	<b>90</b>	<b>60</b>	<b>150</b>

\* 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.	Sub. 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
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>120</b>	<b>200</b>