

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**  
**PTDC I.M.E. (PART-TIME) STRUCTURAL ENGINEERING**

## SEMESTER - I

S.No.	Sub. Code	Subject	L	T	P	Th. Credit	Pr. Credit	MAXIMUM MARKS				
								TH	CW	SW	Pr.	Total
1	CE50004	Concrete Technology and Composites	3	0	0	3	0	70	30	0	0	100
2	CE50005	Advanced Soil Mechanics and Foundation Engineering	3	0	0	3	0	70	30	0	0	100
3	CE51008	Finite Element Method	3	0	0	3	0	70	30	0	0	100
4	CE51454	Concrete Lab			2		1			40	60	100
5	CE51455	Soil Mechanics Lab			2		1			40	60	100
Total			9	0	4	9	2	210	90	80	120	500

## SEMESTER -II

S. No.	Sub. Code	Subject	L	T	P	Th. Credit	Pr. Credit	Maximum Marks				
								TH	CW	SW	Pr.	Total
1		Elective - I	3	0	0	3	0	70	30	0	0	100
2		Elective - II	3	0	0	3	0	70	30	0	0	100
3	CE51456	Computing Techniques Lab			4		2			40	60	100
4	CE51500	Comprehensiv Viva				0	0				Grade	Grade
Total			6	0	4	6	2	140	60	40	60	300

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Elective I		Semester II
S.No	Sub. Code	Subject
1	CE51201	Advanced Structural Analysis
2	CE51202	Structural Dynamics
3	CE51203	Stability of Structures
4	CE51204	Theory of Elasticity & Plasticity
5	CE51205	Instrumentation and Experimental Techniques
6	CE51206	Quality and safety in Construction

Elective II		Semester II
S.No	Sub. Code	Subject
1	CE51301	Prestressed Concrete Design
2	CE51302	Theory of Plates & Shells
3	CE51303	Structural Optimisation
4	CE51304	Numerical & System Methods
5	CE51305	Research Methodology
6	CE51306	Structural Safety & Reliability

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## SEMESTER -III

S.No.	Sub. Code	Subject	L	T	P	Th. Credit	Pr. Credit	MAXIMUM MARKS				
								TH	CW	SW	Pr.	Total
1	CE51507	Advanced Concrete Structures	3	0	0	3	0	70	30	0	0	100
2	CE51508	Advanced Metal Structures	3	0	0	3	0	70	30	0	0	100
3	CE51509	Earthquake Resistant Design of Structures	3	0	0	3	0	70	30	0	0	100
4	CE51890	Minor Project			4		2	0	0	40	60	100
		<b>TOTAL</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>9</b>	<b>2</b>	<b>210</b>	<b>90</b>	<b>40</b>	<b>60</b>	<b>100</b>

## SEMESTER -IV

S. No.	Sub. Code	Subject	L	T	P	Th. Credit	Pr. Credit	Maximum Marks				
								TH	CW	SW	Pr.	Total
1		Elective - III	3	0	0	3	0	70	30	0	0	100
2		Elective - IV	3	0	0	3	0	70	30	0	0	100
3	CE51882	Seminar			2		1	0	0	50	0	50
4	CE51883	Term Paper			2		1	0	0	50	0	50
5	CE51900	Comprehensiv Viva					0	0	0	0	0	0
		<b>TOTAL</b>	<b>6</b>	<b>0</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>140</b>	<b>60</b>	<b>100</b>	<b>0</b>	<b>100</b>

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Elective III		Semester IV
S.No	Sub. Code	Subject
1	CE51707	<b>Analysis &amp; Design of Bridges</b>
2	CE51702	<b>Computer Aided Analysis and Design</b>
3	CE51703	<b>Analysis and Design for Dynamics Effects</b>
4	CE51704	<b>Analysis and Design of Composite structures: Steel, RCC, Timber</b>
5	CE51705	<b>Design of Hydraulic &amp; PHE Structures</b>
6	CE51706	<b>Blast Resistant Design of Structures</b>

Elective IV		Semester IV
S.No	Sub. Code	Subject
1	CE51751	<b>Design of Tall Structures</b>
2	CE51752	<b>Non-Linear Analysis</b>
3	CE51753	<b>Advanced Prestressed Concrete Design</b>
4	CE51754	<b>Design of offshore Structure/Marine Infrastructure</b>
5	CE51755	<b>Advanced Construction Practices</b>
6	CE51756	<b>Repair, Maintenance &amp; Rehabilitation of Structures</b>

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## SEMESTER - V

S. No.	Sub. Code	Subject	L	T	P	Th. Credit	Pr. Credit	Maximum Marks				
								TH	CW	SW	Pr.	Total
1	CE51901	Dissertation (Phase-I)	-	-	20	-	20	-	-	100	150	250
Total			0	0	20	-	20	0	0	100	150	250

## SEMESTER - VI

S. No.	Sub. Code	Subject	L	T	P	Th. Credit	Pr. Credit	Maximum Marks				
								TH	CW	SW	Pr.	Total
1	CE51951	Dissertation Phase-II	-	-	30	-	30	-	-	160	240	400
Total			0	0	30	-	30	0	0	160	240	400