

**Department Of Civil Engineering**  
**M TECH. (STRUCTURAL ENGINEERING)**  
**Scheme of Instruction and Examination**  
 (with effect from 2015-16 academic year)

**I – SEMESTER**

Code No.	Course title	Scheme of Instruction			Scheme of Examination			Total	Credits
		Lec	Tut	Total	Exam (hrs)	Ext	Sess		
ST 1.1	Theory of Elasticity	4	--	4	3	70	30	100	4
ST 1.2	Advanced Reinforced Concrete Design	4	--	4	3	70	30	100	4
ST 1.3	Matrix methods of Structural Analysis	4	--	4	3	70	30	100	4
ST 1.4	Industrial Structures	4	--	4	3	70	30	100	4
ST 1.5	a) Advanced Foundation Engineering b) Wind Analysis and Design of Tall Structures c) Experimental Stress analysis	4	--	4	3	70	30	100	4
ST 1.6	a) Advanced Concrete Technology b) Bridge Engineering c) Structural Dynamics	4	--	4	3	70	30	100	4
ST 1.7	Computer applications in Structural Engineering	--	3	3	Viva	50	50	100	2
ST 1.8	Design of Structures		3	3	Viva	50	50	100	2
<b>Total</b>		<b>24</b>	<b>6</b>	<b>30</b>		<b>520</b>	<b>280</b>	<b>800</b>	<b>28</b>

**II – SEMESTER**

Code No.	Course title	Scheme of Instruction			Scheme of Examination			Total	Credits
		Lec	Tut	Total	Exam (hrs)	Ext	Sess		
ST 2.1	Theory of Plates and Shells	4	--	4	3	70	30	100	4
ST 2.2	Structural Stability	4	--	4	3	70	30	100	4
ST 2.3	Finite Element Methods of Analysis	4	--	4	3	70	30	100	4
ST 2.4	Earthquake Engineering	4	--	4	3	70	30	100	4
ST 2.5	a) Ground Improvement Techniques b) Optimization Techniques c) Reliability Analysis and Design	4	--	4	3	70	30	100	4
ST 2.6	a) Prestressed Concrete b) Design of steel bridges c) Inelastic Design of Slabs	4	--	4	3	70	30	100	4
ST 2.7	Repair and Rehabilitation of Structures	--	3	3	Viva	50	50	100	2
ST 2.8	Advanced Design of Structures		3	3	Viva	50	50	100	2
<b>Total</b>		<b>24</b>	<b>6</b>	<b>30</b>		<b>520</b>	<b>280</b>	<b>800</b>	<b>28</b>

**III and IV SEMESTERS**

Code No	Course title	Scheme of Examination	Total Marks	Credits
ST3.1	Dissertation (Preliminary)	Viva-voce	<b>100</b>	<b>10</b>
ST4.1	Dissertation (Final)	Defence and Viva-voce	<b>100</b>	<b>14</b>