

## Department of Civil Engineering

### Curriculum & Syllabi 2011 Regulations for M.E. Structural Engineering

#### SEMESTER I

S.No	Course Code	Course Name	L	T	P	C	M
1	11ST101	Higher Engineering Mathematics	3	1	0	4	100
2	11ST102	Experimental Methods and Model Analysis	3	0	0	3	100
3	11ST103	Dynamics of Structures	3	1	0	4	100
4	11ST104	Design of RCC Structures	3	1	0	4	100
5	11ST105	Theory of Elasticity and Plasticity	3	1	0	4	100
6	XXX	Elective I	3	0	0	3	100
7	11ST107	Structural Engineering Laboratory	0	0	3	2	100
<b>Total</b>			<b>18</b>	<b>4</b>	<b>3</b>	<b>24</b>	<b>700</b>

#### SEMESTER II

8	11ST201	Finite Element Techniques	3	1	0	4	100
9	11ST202	Earthquake Resistant Design	3	0	0	3	100
10	11ST203	Design of Steel Structures	3	1	0	4	100
11	11ST204	Design of foundations	3	1	0	4	100
12	XXX	Elective II	3	0	0	3	100
13	XXX	Elective III	3	0	0	3	100
14	11ST207	Computer Aided Structural Design Laboratory	0	0	3	2	100
<b>Total</b>			<b>18</b>	<b>3</b>	<b>3</b>	<b>23</b>	<b>700</b>

#### SEMESTER III

15	XXX	Elective IV	3	0	0	3	100
16	XXX	Elective V	3	0	0	3	100
17	XXX	Elective VI	3	0	0	3	100
18	11ST307	Project Work Phase I	0	0	12	6	200
<b>Total</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>	<b>500</b>

#### SEMESTER IV

19	11ST407	Project Work Phase II	0	0	24	12	400
<b>Total</b>			<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>400</b>

**L: Lecture**

**T: Tutorial**

**P: Practical**

**C: Credits**

**M: Marks**

#### List of Elective

1	11ST911	Structural Optimization	3	0	0	3	100
2	11ST912	Theory of Plates and shells	3	0	0	3	100
3	11ST913	Concrete Technology	3	0	0	3	100
4	11ST914	Design of Bridges	3	0	0	3	100
5	11ST915	Stability Analysis Of Structures	3	0	0	3	100
6	11ST916	Nonlinear Structural Analysis	3	0	0	3	100
7	11ST917	Construction Techniques and Management	3	0	0	3	100
8	11ST918	Design of Tall Structures	3	0	0	3	100
9	11ST919	Design of Industrial Structures	3	0	0	3	100
10	11ST920	Special Concretes	3	0	0	3	100
11	11ST921	Pre-stressed Concrete Structures	3	0	0	3	100
12	11ST922	Prefabricated Structures	3	0	0	3	100
13	11ST923	Energy Efficient Buildings	3	0	0	3	100
14	11ST924	Soil Structures Interaction	3	0	0	3	100
15	11ST925	Off Shore Structures	3	0	0	3	100
16	11ST926	Mechanics of Composite Materials	3	0	0	3	100