

**ANNA UNIVERSITY, CHENNAI**  
**AFFILIATED INSTITUTIONS**  
**M.E. STRUCTURAL ENGINEERING**  
**REGULATIONS – 2017**  
**CHOICE BASED CREDIT SYSTEM**  
**I TO VI SEMESTERS (PART TIME) CURRICULUM**

**SEMESTER I**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA5151	<u>Advanced Mathematical Methods</u>	FC	4	4	0	0	4
2.	ST5101	<u>Advanced Concrete Structures</u>	PC	3	3	0	0	3
3.	ST5102	<u>Dynamics of Structures</u>	PC	3	3	0	0	3
<b>TOTAL</b>				<b>10</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>10</b>

**SEMESTER II**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ST5201	Advanced Steel Structures	PC	3	3	0	0	3
2.	ST5202	Stability of Structures	PC	3	3	0	0	3
3.	ST5203	Experimental Techniques	PC	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ST5211	<u>Advanced Structural Engineering Laboratory</u>	PC	4	0	0	4	2
<b>TOTAL</b>				<b>13</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>11</b>

**SEMESTER III**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ST5103	<u>Theory of Elasticity and Plasticity</u>	PC	3	3	0	0	3
2.		Professional Elective I	PE	3	3	0	0	3
3.		Professional Elective II	PE	3	3	0	0	3
<b>TOTAL</b>				<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**SEMESTER IV**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ST5204	Finite Element Analysis of Structures	PC	3	3	0	0	3
2.		Professional Elective III	PE	3	3	0	0	3
3.		Professional Elective IV	PE	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ST5212	<u>Practical Training I (2 weeks)</u>	EEC	0	0	0	0	1
<b>TOTAL</b>				<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>10</b>

**SEMESTER V**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ST5301	<u>Earthquake Analysis and Design of Structures</u>	PC	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
3.		Professional Elective VI	PE	3	3	0	0	3
<b>PRACTICAL</b>								
4.	ST5311	<u>Practical Training II (2 weeks)</u>	EEC	0	0	0	0	1
5.	ST5312	<u>Seminar</u>	EEC	2	0	0	2	1
6.	ST5313	<u>Project Work (Phase I)</u>	EEC	12	0	0	12	6
<b>TOTAL</b>				<b>23</b>	<b>9</b>	<b>0</b>	<b>14</b>	<b>17</b>

**SEMESTER VI**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>PRACTICAL</b>								
1.	ST5411	<u>Practical Training III (2 weeks)</u>	EEC	0	0	0	0	1
2.	ST5412	<u>Project Work (Phase II)</u>	EEC	24	0	0	24	12
<b>TOTAL</b>				<b>24</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>13</b>

**TOTAL NO. OF CREDITS: 70**

**PROFESSIONAL ELECTIVES**  
**SEMESTER III**  
**ELECTIVE I & II**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ST5001	<u>Maintenance and Rehabilitation of Structures</u>	PE	3	3	0	0	3
2.	ST5002	<u>Prefabricated Structures</u>	PE	3	3	0	0	3
3.	ST5003	<u>Offshore Structures</u>	PE	3	3	0	0	3
4.	ST5004	Matrix Methods for Structural Analysis	PE	3	3	0	0	3

**SEMESTER IV**  
**ELECTIVE III & IV**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ST5005	<u>Theory of Plates</u>	PE	3	3	0	0	3
2.	ST5006	<u>Mechanics of Composite Materials</u>	PE	3	3	0	0	3
3.	ST5007	<u>Analysis and Design of Tall Buildings</u>	PE	3	3	0	0	3
4.	ST5008	<u>Industrial Structures</u>	PE	3	3	0	0	3
5.	ST5009	<u>Prestressed Concrete</u>	PE	3	3	0	0	3
6.	ST5010	<u>Wind and Cyclone Effects on Structures</u>	PE	3	3	0	0	3

**SEMESTER V**  
**ELECTIVE V & VI**

S.No.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ST5011	<u>Nonlinear Analysis of Structures</u>	PE	3	3	0	0	3
2.	ST5012	<u>Design of Sub Structures</u>	PE	3	3	0	0	3
3.	ST5013	<u>Optimization of Structures</u>	PE	3	3	0	0	3
4.	ST5014	<u>Design of Steel Concrete Composite Structures</u>	PE	3	3	0	0	3
5.	ST5015	<u>Design of Bridges</u>	PE	3	3	0	0	3
6.	ST5016	<u>Design of Shell and Spatial Structures</u>	PE	3	3	0	0	3
7.	ST5017	<u>Computer Aided Analysis and Design</u>	PE	4	2	0	2	3