2 Years M. Tech. Programme in Structural Engineering

SEMESTER - I				
Sr. No.	**Subject Code**	**Courses**	**L-T-P**	**Credits**
		THEORY		
1	MA501	Probability and Statistics	3-1-0	4
2	CE551/CE409	Operations Research	2-1-0	3
3	CE553	Continuum Mechanics	2-1-0	3
4	CE555	Advance Numerical Analysis	2-1-0	3
5	CE557/CE415	Earthquake Resistant Structural Design	3-1-0	4
6		Open Elective-I	2-0-0	2
		PRACTICALS		
7	CE565/CE421	CAD Lab	0-0-3	2
8	CE567/CE425	Minor Project	0-0-3	2
9	GP501	General Proficiency	-	1
		Total	**14-5-6**	**24**
		Total Contact Hours	25	

SEMESTER – II				
Sr. No.	**Subject Code**	**Courses**	**L-T-P**	**Credits**
		THEORY		
1	CE504/CE406	Modelling and Simulation	3-1-0	4
2	CE522/CE408	Advance Structural Analysis	3-1-0	4
3	CE524/CE410	Advance RCC Design	3-1-0	4
4		Specialisation Elective-I	2-1-0	3
5		Open Elective-II	2-0-0	2
		PPRACTICALS		
7	CE528/CE420	Structural Analysis Lab-I	0-0-3	2
8	CE518/CE422	Seminar	0-0-3	2
9	GP502	General Proficiency		1
		Total	**13-4-6**	**22**
		Total Contact Hours	23	

SEMESTER – III				
Sr. No.	**Subject Code**	**Courses**	**L-T-P**	**Credits**
		THEORY		
1	CE621/CE501	Plate and Shell Structures	2-1-0	3
2	CE623/CE503	Composite Structures	3-1-0	4
3	CE625/CE505	Theory of Stability	3-1-0	4
4	CE627/CE507	Metal Structures	3-0-0	3
5		Specialization Elective – II	2-1-0	3
		PROJECTS		
7	CE635	Structural Analysis Lab-II/Special Problem-I	0-0-2	1
8	CE519	Research Project (Preliminary)	1**-0-3	3
9	GP601	General Proficiency		1
		Total	**14-4-5**	**22**
		Total Contact Hours	23	

*** This will not be a usual lecture session, but this is one to one interaction of each student with the concerned faculty member*

SEMESTER – IV				
Sr. No.	**Subject Code**	**Courses**	**L-T-P**	**Credits**
1	CE602	Research Project	…….	21
2	GP602	General Proficiency	-	1
		Total	**…….**	**22**

Grand Total Credits of Dual Degree = 90

List of Electives

Specialization Elective-I

1. CE412: Applied Elasticity and Plasticity
2. CE414: Design of Tall Buildings
3. CE416: Structural Optimisation
4. CE418: Structural Dynamics

Specialization Elective-II

1. CE511: Soft Computational & Artificial Intelligence Techniques
2. CE513: Soil Structure Interaction Studies
3. CE515: Knowledge based Expert Systems in Structural Engineering