Department of Civil Engineering M.Tech in Structural Engineering

		Semester 1		
Sl. No	Course Code	Name of the Course		T
1	O1D 4 1011	Desferies along Communication Chills	L 0	T 0
1	O1PA101L	Professional and Communication Skills		
2	C1PC120T	Advanced Numerical and Statistical Methods	3	1
3	G1PC101T G1PC102T	Structural Dynamics	3	0
5	GIPC1021 GIPC103T	Matrix Methods of Structural Analysis	3	0
		Advanced Concrete Technology		_
6	G1PC104T	Design of Concrete Structural Systems	3	0
7	G1PC105L	Matrix methods of Structural Analysis Lab (STAAD PRO)	0	0
8	G1PC106L	Design of Concrete and Structural Systems Lab (STAAD PRO)	0	0
		Total Credit		
		Semester II	T	
Sl. No	Course Code	Name of the Course	L	Т
1	G1PC201T	Finite Element Analysis	3	0
2	G1PC202T	Theory of Elasticity and Plasticity	3	0
3	G1PC202T	Limit State Design of Steel Structures	3	0
4	G11 C2031	Elective 1	3	0
			3	
5		Elective 2	3	0
6		Elective 3	3	0
4	G1PC209L	Scientific Report Writing	0	0
5	G1PC302L	Machine Learning applications in Civil Engineering	0	0
		Total Credit		
		Semester III		
Sl No	Course Code	Name of the Course		
			L	T
1	G1PC301T	Application of Numerical Methods in Structural Engineering	3	0
2		Program Elective - 5	3	0
3	C.17.C.40.77	Program Elective - 6	3	0
4	G1PC207L	Structural Engineering lab (CASTING)	0	0
5	G1PC208L	Finite Element Analysis Lab (STAAD PRO)	0	0
6	G1PD301L	Project (Phase 1)	0	0
		Total Credit		
		Semester IV		
Sl No	Course Code	Name of the Course	<u></u>	
	CIRCIAIR		L	T
1	G1PC401R	Project (Phase II)	0	0
		Total Credit		

Total Credits 7

Sl No Course Code		Name of the Electives			
51110	Course Code	Name of the Electives	L	T	
1		Advanced Foundation Engineering	3	0	
2		Design of Concrete Bridges	3	0	
3		Design of Industrial Structures	3	0	
4		Earthquake Resistant Design	3	0	
5		Design of Tall Buildings	3	0	
6		Energy Efficient Buildings	3	0	
7		Environmental Engineering Structures	3	0	
8		Experimental Stress Analysis	3	0	
9		Machine Foundations	3	0	
10		Maintenance & Rehabilitation of Structures	3	0	
11		Theory and Design of Plates & Shells	3	0	
12		Off Shore Structures	3	0	
13		Prefabricated Structures	3	0	
14		Pre-stressed Concrete Structures	3	0	
15		Soil Structure Interaction	3	0	
16		Stability of Structures	3	0	
17		Structural Optimization	3	0	
18		Composite Structures	3	0	

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