

School Name: School of Engineering
Department Name : Civil Engineering
Programme Name: M. Tech in Structural Engineering
Scheme: 2015-2017

SEMESTER I						
Sl No	Course Code	Name of the Course	L	T	P	C
1	MAT502	Advanced Numerical and Statistical Methods	3	1	0	4
2	CLE511	Structural Dynamics	3	0	0	3
3	CLE512	Matrix Methods of Structural Analysis	3	0	0	3
4	CLE513	Advanced Concrete Technology	3	0	0	3
5	CLE514	Design of Concrete Structural Systems	3	0	0	3
6	CLE551	Matrix methods of Structural Analysis Lab (STAAD PRO)	0	0	2	1
7	CLE552	Design of Concrete and Structural Systems Lab (STAAD PRO)	0	0	2	1

SEMESTER II						
Sl No	Course Code	Name of the Course	L	T	P	C
1	CLE521	Finite Element Analysis	3	0	0	3
2	CLE522	Theory of Elasticity and Plasticity	3	0	0	3
3	CLE523	Limit State Design of Steel Structures	3	0	0	3
4		Elective - 1	3	0	0	3
5		Elective - 2	3	0	0	3
6		Elective - 3	3	0	0	3
7	CLE541	Structural Engineering lab (CASTING)	0	0	2	1
8	CLE542	Finite Element Analysis Lab (STAAD PRO)	0	0	2	1

SEMESTER III						
Sl No	Course Code	Name of the Course	L	T	P	C
1	CLE631	Application of Numerical Methods in Structural Engineering	3	0	0	3
2		Elective - 4	3	0	0	3
3		Elective - 5	3	0	0	3
4	GUC501	Seminar (or)	0	0	2	1
		Mini Project	0	0		
5	CLE663	Comprehensive Examination	0	0	0	2
6	CLE698	Project (Phase I)	0	0	0	5
7	ENG584P	Professional and Communication Skills	0	0	4	2

SEMESTER IV						
Sl No	Course Code	Name of the Course	L	T	P	C
1	CLE699	Project (Phase II)	0	0	0	15

List of Electives

Sl No	Course Code	Name of the Electives				
			L	T	P	C
1	CLE561	Advanced Foundation Engineering	3	0	0	3
2	CLE562	Design of Concrete Bridges	3	0	0	3
3	CLE563	Design of Industrial Structures	3	0	0	3
4	CLE564	Earthquake Resistant Design	3	0	0	3
5	CLE565	Design of Tall Buildings	3	0	0	3
6	CLE566	Energy Efficient Buildings	3	0	0	3
7	CLE567	Environmental Engineering Structures	3	0	0	3
8	CLE568	Experimental Stress Analysis	3	0	0	3
9	CLE569	Machine Foundations	3	0	0	3
10	CLE661	Maintenance & Rehabilitation of Structures	3	0	0	3
11	CLE662	Theory and Design of Plates & Shells	3	0	0	3
12	CLE663	Off Shore Structures	3	0	0	3
13	CLE664	Prefabricated Structures	3	0	0	3
14	CLE665	Pre-stressed Concrete Structures	3	0	0	3
15	CLE666	Soil Structure Interaction	3	0	0	3
16	CLE667	Stability of Structures	3	0	0	3
17	CLE668	Structural Optimization	3	0	0	3
18	CLE669	Composite Structures	3	0	0	3