



Scheme of Examination for M.Tech–Structural Engineering Program SEMESTER WISE COURSE STRUCTURE

First Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Ext.	Int.	
							1	13160101	
2	13160102	Structural Dynamics	3	0	0	3	60	40	100
3	13160103	Matrix Methods of Structural Analysis	3	1	0	4	60	40	100
4	13160104	Advanced Concrete Technology	3	0	0	3	60	40	100
5	13160105	Design of Concrete Structural Systems	3	0	0	3	60	40	100
6	13160106	Matrix methods of Structural Analysis Lab (STAAD PRO)	0	0	2	1	30	20	50
7	13160107	Design of Concrete and Structural Systems Lab (STAAD PRO)	0	0	2	1	30	20	50
		Total	15	1	4	18	360	240	600

Second Semester

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Ext.	Int.	
							1	13160201	
2	13160202	Theory of Elasticity and Plasticity	3	0	0	3	60	40	100
3	13160203	Limit State Design of Steel Structures	3	0	0	3	60	40	100
4		Elective – I	3	0	0	3	60	40	100
5		Elective – II	3	0	0	3	60	40	100
6		Elective – III	3	0	0	3	60	40	100
7	13160215	Structural Engineering lab (CASTING)	0	0	2	1	30	20	50
8	13160216	Finite Element Analysis Lab (STAAD PRO)	0	0	2	1	30	20	50
		Total	18		4	20	420	280	700



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Third Semester

S.NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Ext.	Int.	
1	13160301	Earthquake Resistant Design	3	0	0	3	60	40	100
2		Elective – IV	3	0	0	3	60	40	100
3		Elective – V	3	0	0	3	60	40	100
4	13160307	Seminar (or) Mini Project	- -	- -	2	1	30	20	50
5	13160308	Comprehensive Examination	-	-	-	2	30	20	50
6	13160309	Major Project (Phase I)	0	0	0	5	120	80	200
		Total	9	1	2	17	360	240	600

Fourth Semester

S.NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Ext.	Int.	
1	13160401	Major Project (Phase II)	0	0	0	15	130	170	300
		Total	0	0	0	15	130	170	300

List of Program Electives

S. NO.	Subject Code	Course Title	L	T	P	C	Examination marks		Subject Total
							Ext.	Int.	
Elective I									
1	13160204	Advanced Foundation Engineering	3	0	0	3	60	40	100
2	13160205	Design of Concrete Bridges	3	0	0	3	60	40	100
3	13160206	Design of Industrial Structures	3	0	0	3	60	40	100
Elective II									
1	13160207	Design of Tall Buildings	3	0	0	3	60	40	100
2	13160208	Energy Efficient Buildings	3	0	0	3	60	40	100
3	13160209	Environmental Engineering Structures	3	0	0	3	60	40	100
4	13160210	Stability of Structures	3	0	0	3	60	40	100
5	13160211	Composite Structures	3	0	0	3	60	40	100
Elective III									
1	13160212	Maintenance & Rehabilitation of Structures	3	0	0	3	60	40	100
2	13160213	Prefabricated Structures	3	0	0	3	60	40	100
3	13160214	Structural Optimization	3	0	0	3	60	40	100
Elective IV									
1	13160302	Experimental Stress Analysis	3	0	0	3	60	40	100
2	13160303	Machine Foundations	3	0	0	3	60	40	100
3	13160304	Design of Bridges	3	0	0	3	60	40	100
Elective V									
1	13160305	Theory and Design of Plates & Shells	3	0	0	3	60	40	100
2	13160306	Soil Structure Interaction	3	0	0	3	60	40	100
		Total Credits(Students to opt for any 5 subjects)	15						

Total credits: 70