

Department of Civil Engineering

Scheme of Examination for M. Tech. Civil Engineering													
Structural Engineering													
Semester- I													
Subject code	Subject Name	Teaching scheme (Weekly Load in hrs.)				Credits	Evaluation Scheme						ESE Duration (Hrs.)
		Lecture	Tutorial	Practical	Total		Theory			Practical (Cont. Ass.)	Total		
							TAE 20 %	CAE 20 %	ESE 60%				
MSTL501	Advanced Mechanics of Solids	3	1	-	4	4	20	20	60	-	100	3	
MSTL502	Structural Dynamics	3	1	-	4	4	20	20	60	-	100	3	
MSTL503	Advanced design of Steel Structures	3	1	-	4	4	20	20	60	-	100	3	
MSTL504	Research Methodology	3	-	-	3	3	20	20	60	-	100	3	
MSTL505	Elective –I*	3	-	-	3	3	20	20	60	-	100	3	
MSTP501	Lab Practice - I	-	-	4	4	2	-	-	-	100	100	-	
MSDP501	Advanced Skill Development	-	-	2	2	AU	20	20	60	-	100	3	
	Total	15	3	4	22	20	120	120	360	100	700	-	

MSTL505 - Elective I

Code	2 Credit Subjects	Code	1 Credit Subjects
MSTL505A	Soil Structure Interaction	MSTL505a	Structural Mechanics of modern materials
MSTL505B	Plastic Analysis and Design of Steel Structures	MSTL505b	Building Services and Maintenance
MSTL505C	Structural Optimization	MSTL505c	Economics & Finance For Engineers
MSTL505D	Failure Analysis of Structures	MSTL505d	Bridge Engineering

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Semester- II												
Subject code	Subject Name EEDM	Teaching scheme (Weekly Load in hrs)				Credits	Evaluation Scheme					ESE Duration (Hrs.)
		Lecture	Tutorial	Practical	Total		Theory			Practical (Cont. Ass. + External)	Total	
							TAE 20 %	CAE 20 %	ESE 60%			
MSTL506	Finite Element Method	3	1	-	4	4	20	20	60	-	100	3
MSTL507	Theory of Plates and Shells	3	1	-	4	4	20	20	60	-	100	3
MSTL508	Advanced Design of Concrete Structures	3	1	-	4	4	20	20	60	-	100	3
MSTL509	Elective – II*	3	-	-	3	3	20	20	60	-	100	3
MSTL510	Elective – III*	3	-	-	3	3	20	20	60	-	100	3
MSTP502	Lab Practice-II	-	-	4	4	2	-	-	-	100	100	-
	Total	15	3	4	22	20	100	100	300	100	600	-

MSTL509 - Elective II

Code	2 Credit Subjects	Code	1 Credit Subjects
MSTL509A	Design of precast components	MSTL509a	Fracture Mechanics
MSTL509B	Design of Foundation	MSTL509b	Prefabricated Structures
MSTL509C	Non-linear Analysis of structure	MSTL509c	Forensic Engineering and Rehabilitation of Structures
MSTL509D	Design of Hydraulic Structures	MSTL509d	Composite structure

MSTL510 - Elective III

Code	2 Credit Subjects	Code	1 Credit Subjects
MSTL510A	Advanced analysis of steel Frames	MSTL510a	Safety Practices in construction.
MSTL5105B	Design of Boiler Structures	MSTL510b	Green Building
MSTL510C	Design of Concrete Shell Structures	MSTL510c	Theory of Plasticity
MSTL510D	Design of Tall Building	MSTL510d	Structures for Power Plants

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Subject code	Subject Name	Teaching scheme (Weekly Load in hrs.)				Credits	Evaluation Scheme						ESE Duration (Hrs.)
							Theory			Practical		Total	
		Lecture	Tutorial	Practical	Total		TAE 20 %	CAE 20 %	ESE 60%	Cont. Ass.	External		
MSTP601	Technical Writing by LATEX	-	-	6	6	3	-	-	-	50	50	100	-
MSTP602	Seminar-I	-	-	4	4	4	-	-	-	50	50	100	-
MSTP603	Dissertation Phase - I	-	-	8	8	8	-	-	-	100	50	150	-
	Total	-	-	18	18	15	-	-	-	200	150	350	-

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Structural Engineering													
Semester-IV													
Subject code	Subject Name	Teaching scheme (Weekly Load in hrs.)				Credits	Evaluation Scheme						ESE Duration (Hrs.)
							Theory			Practical		Total	
		Lecture	Tutorial	Practical	Total		TAE 20 %	CAE 20 %	ESE 60%	Cont. Ass.	External		
MSTP604	Seminar - II	-	-	4	4	4	-	-	-	50	50	100	-
MSTP605	Dissertation Phase - II	-	-	16	16	16	-	-	-	100	50	150	-
	Total	-	-	20	20	20	-	-	-	150	100	250	-

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