



Ram Krishna Dharmarth Foundation University, Bhopal

(NAACA⁺ Grade University)

Scheme of Examination

First Semester- M.Tech (Structural Engineering)

S.no	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam	Tests (Two)	Assignments /Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/Quiz /Presentation	
1	MTSE-1001	ADVANCE MATHEMATICS AND NUMERICAL ANALYSIS	3	1	-	4	70	20	10			100
2	MTSE-1002	THEORY OF ELASTICITY	3	1	-	4	70	20	10			100
3	MTSE-1003	ADVANCED STRUCTURAL ANALYSIS	3	1	-	4	70	20	10			100
4	MTSE-1004	ADVANCED DESIGN OF CONCRETE STRUCTURE	3	1	-	4	70	20	10			100
5	MTSE-1005	ELECTIVE-I	3	1	-	4	70	20	10			100
6	MTSE-1006	LAB-I ADVANCED CONCRETE LAB	-	-	6	6				90	60	150
7	MTSE-1007	LAB-II CAD LAB	-	-	6	6				90	60	150
		Total	15	5	12	32	350	100	50	180	120	800

ELECTIVE –I

MTSE- 1005(A) DESIGN OF PRESTRESSED CONCRETE

MTSE-1005(B) THEORY OF PLATES AND SHELL

MTSE-1005(C) COMPUTER AIDED ANALYSIS AND DESIGN

MTSE-1005(D) ROCK MECHANICS AND FOUNDATION ENGINEERING

MTSE-1005(E) Swayam/NPTEL/MOOC-1



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Second Semester- M.Tech (STRUCTURAL ENGINEERING)

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			L	T	P		End Sem. Exam	Tests (Two)	Assignments /Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/Quiz /Presentation	
1	MTSE-2001	STRUCTURAL DYNAMICS	3	1	-	4	70	20	10	-	-	100
2	MTSE-2002	FEM IN STRUCTURAL ENGINEERING	3	1	-	4	70	20	10	-	-	100
3	MTSE-2003	DESIGN OF EARTHQUAKE RESISTANT STRUCTURES	3	1	-	4	70	20	10	-	-	100
4	MTSE-2004	NON DESTRUCTIVE TESTING OF MATERIAL	3	1	-	4	70	20	10	-	-	100
5	MTSE-2005	ELECTIVE –II	3	1	-	4	70	20	10	-	-	100
6	MTSE-2005	LAB –III NDT LAB	-	-	6	6	-	-	-	90	60	150
7	MTSE-2006	LAB-IV ADVANCED STRUCTURAL ENGG. LAB	-	-	6	6	-	-	-	90	60	150
	MTSE-2007	Total	15	5	12	32	350	100	50	180	120	800

ELECTIVE -II

MTSE-2005(A)ADVANCED CONSTRUCTION MATERIAL AND CONCRETE TECHNOLOGY

MTSE-2005(B)BLAST RESISTANT DESIGN OF STRUCTURE

MTSE-2005(C) INSTRUMENTATION AND EXPERIMENTAL TECHNNICS

MTSE-2005(D) RESEARCH METHEDOLOGY

MTSE-2005(E) Swayam/NPTEL/MOOC-2



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Second Year

Third Semester- M.Tech (Structural Engineering)

S. No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam	Tests (Two)	Assignments /Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/Quiz /Presentation	
1	MTSE-3001	Elective-III	3	1	-	4	70	20	10			100
2	MTSE-3002	Elective-IV			4	4					100	100
3	MTSE-3003	Seminar	-	-	4	4					100	100
4	MTSE-3004	Dissertation Part- I (Literature Review/Problem Formulation/ Synopsis)	-	-	8	8				120	80	200
		Total	6	2	16	20	140	40	20	120	180	500

ELECTIVE -III	ELECTIVE-IV
MTSE-3001(A) Advanced Fem & Programming	MTSE-3002(A) Design of Prestressed Concrete Structures
MTSE-3001(B) Design Of Steel Structure	MTSE-3002(B) Foundation Engineering
MTSE-3001(C) Design Of Tall Structure	MTSE-3002(C)-Bridge Engineering
MTSE-3001(D) Stability Theory In Structural Engineering	MTSE-3002(D) Retrofitting and Rehabilitation of structure
MTSE-3001(E) Swayam/NPTEL/MOOC-3	MTSE-3002(E) Swayam/NPTEL/MOOC-4



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M.Tech (Structural Engineering)

Second Year

Semester – IV

Course Content & Grade

Branch	Subject Title	Subject Code	Contact Hours per Week	Total Credit
M.Tech (Structural Engineering)	Dissertation Part- II	MTSE-4001	0L-0T-2P	2