



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared Under Distinct Category by Ministry of Education, Government of India)



NAAC Accredited with A++ Grade
Department of Civil Engineering
Scheme of Evaluation
M. Tech. I Semester (*Structural Design*)

(for batch admitted in academic session 2025-26)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted						Total Marks	ContactHours per week			Total Credits	Mode of Learning	Mode of Major Evaluation	Duration of Major Evaluation
				Theory Block				Practical Block									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation								
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional									
1.	72251101	DC	Advanced Steel Design	25	25	20	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
2.	72251102	DC	Matrix Method of Structural Analysis	25	25	20	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
3.	72251103	DC	Advanced RC Design	25	25	20	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
4.	722511XX	DE	Departmental Elective (DE-1)	25	25	20	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
5.	72251104	SPC	Structural Dynamics	25	25	20	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	72251105	DLC	Structural Engineering Lab #	-	-	-	-	70	30	100	-	-	4	2	Experiential	SO	-
7.	72251106	SLP	Seminar/Presentation \$	-	-	-	-	70	30	100	-	-	4	2	Mentoring	SO	-
8.	72251110	NEC	Classified Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	50	-	1	-	1	Interactive	SO	-
Total				125	125	100	150	140	110	750	13	03	08	20	-	-	-

MCQ: Multiple Choice Question **PP:** Pen Paper **SO:** Submission + Oral **OB:** Open Book

[#]During lab, students have to perform practical/assignments/minor projects related to the courses of respective semester using recent technologies / languages / tools etc.

^{\$}Seminar/Presentation through SWAYAM / NPTEL (Registration in a course will be compulsory for students but assessment will be based on internal seminar presentation).

DE-1		
S. No.	Course Code	Course Name
1.	72251107	Advanced Foundation Engineering
2.	72251108	Design of Composite Structure
3.	72251109	Advanced Concrete Technology

Mode of Learning					Mode of Examination					Total Credits
Theory		Lab		NEC	Theory			Lab	NEC	
Face to Face	Online	Mentoring	Experiential	Interactive	PP	MCQ	OB	SO	SO	
15		2	2	1	15			4	1	
75%		10%	10%	5%	75%			20%	5%	Credits %



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Scheme of Evaluation
M. Tech. II Semester (*Structural Design*)

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S.No.	Course Code	Category Code	Course Name	Maximum Marks Allotted								Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Evaluation	Duration of Major Evaluation
				Theory Block				Practical Block		MOOCs									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation	Assignment	Exam								
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional											
1.	72251201	DC	Design of Bridges	25	25	20	30	-	-	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
2.	72251202	DC	Design of Prestressed Concrete Structure	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
3.	72251203	DC	Earthquake Resistant Design	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
4.	722512XX	DE	Departmental Elective* (DE-2)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
5.	72251204	SPC	Design of Tall Buildings	25	25	20	30	-	-	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
6.	72251205	DLC	Design Lab [#]	-	-	-	-	70	30	-	-	100	-	-	4	2	Experiential	SO	-
7.	72251206	SLP	Seminar/Presentation [§]	-	-	-	-	70	30	-	-	100	-	-	4	2	Mentoring	SO	-
8.	72251207	NEC	Classified Novel Engaging Course (Activity Based Learning) Fire Safety & Regulation in Building	-	-	-	-	-	50	-	-	50	-	1	-	1	Interactive	SO	-
Total				100	100	80	120	140	110	25	75	750	12	04	08	20	-	-	-

MCQ: Multiple Choice Question PP: Pen Paper SO: Submission + Oral OB: Open Book

* This course will run through SWAYAM / NPTEL / MOOC based learning platform (with credit transfer facility). The course can be related & relevant to other domain as well.

[#] During lab, students have to perform practical/assignments/minor projects related to the courses of respective semester using recent technologies / languages / tools etc.

[§] Seminar/Presentation through SWAYAM / NPTEL (Registration in a course will be compulsory for students but assessment will be based on internal seminar presentation).

DE-2* (through SWAYAM / NPTEL / MOOC)		
S. No.	Course Code	Course Name
1.		Repair & Rehabilitation of Structures
2.		Finite Element Method
3.		Construction Method & Equipment Management

Mode of Learning					Mode of Examination					Total Credits
Theory		Lab		NEC	Theory			Lab	NEC	
Face to Face	Online	Mentoring	Experiential	Interactive	PP	MCQ	OB	SO	SO	
12	3	2	2	1	12	3		4	1	
60%	15%	10%	10%	5%	60%	15%		20%	5%	Credits %



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Scheme of Evaluation
M. Tech. III Semester (*Structural Design*)

(for batch admitted in academic session 2025-26)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Evaluation	Duration of Major Evaluation
				Theory Block				Practical Block									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation	Major Evaluation								
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional									
1.	72252101	DLC	PreliminaryDissertation (Literature Review/ Problem Foundation/ Synopsis/survey paper, etc.)	-	-	-	-	175	75	250	-	-	28	14	Interactive	SO	-
Total				-	-	-	-	175	75	250	-	-	28	14	-	-	-



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Scheme of Evaluation
M. Tech. IV Semester (*Structural Design*)

(for batch admitted in academic session 2025-26)

S. No.	Course Code	Category Code	Course Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Evaluation	Duration of Major Evaluation	
				Theory Block				Practical Block									
				Continuous Evaluation			Major Evaluation	Continuous Evaluation		Major Evaluation							
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment		Lab Work & Sessional									
1.	72252201	DLC	Dissertation	-	-	-	-	350	150	500	-	-	32	16	Interactive	SO	-
Total				-	-	-	-	350	150	500	-	-	32	16	-	-	-