



# 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	Contact Hours per week			Total Credits	Mode of Learning	Mode of Major Evaluation	Duration of Major Evaluation
				Theory Block				Practical Block			L	T	P				
				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-I)	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

<sup>\*</sup>During lab, students have to perform practical/assignments/minor projects related to the courses of respective semester using recent technologies / languages / tools etc.

<sup>†</sup>Seminar/Presentation through SWAYAM / NPTEL (Registration in a course will be compulsory for students but assessment will be based on internal seminar presentation).

DE-I		
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	
15		2	2	1	15			4	1
75%		10%	10%	5%	75%			20%	5%
									Credits %

Recommended in the Board of Studies Meeting of Department of Civil Engineering held on 4 June 2025



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

*(for batch admitted in academic session 2025-26)*

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			L	T	P				
				Continuous Evaluation			Major Evaluation	Continuous Evaluation Lab Work & Sessional	Major Evaluation	Assignment	Exam								
				Minor Evaluation I	Minor Evaluation II	Quiz/ Assignment													
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 <sup>s</sup>	-	-	-	-	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.

<sup>s</sup>During lab, students have to perform practical/assignments/minor projects related to the courses of respective semester using recent technologies / languages / tools etc.

<sup>s</sup>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.	72251208	Finite Element Method
2.	72251209	Concrete Technology
3.	72251110	Retrofitting and Rehabilitation of Civil Infrastructure

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%
									<b>20</b>
									<b>Credits %</b>