



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 (*Environmental Engineering*) (for batch admitted in academic session 2024-25)

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											
1.	53241101	DC	Environmental Chemistry & Microbiology	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
2.	53241102	DC	Solid Waste Management	20	20	30	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
3.	53241103	DC	Advanced Treatment Process – I (Waste Water Engineering)	20	20	30	30	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
4.	532411XX	DE	Departmental Elective (DE-1)	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
5.	53241104	SPC	Urban Water Infrastructure (SPC-1)	20	20	30	30	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
6.	53241105	DLC	Environmental Engineering Lab [#]	-	-	-	-	70	30	100	-	-	4	2	Experiential	SO	-
7.	53241106	SLP	Seminar/Presentation [§]	-	-	-	-	70	30	100	-	-	4	2	Mentoring	SO	-
8.	NECXXXXX	NEC	Classified Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	50	-	1	-	1	Interactive	SO	-
Total				100	100	150	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.	53241107	Industrial Waste Management
2.	53241108	Hazardous Waste Management
3.	53241109	Environmental Auditing & Management System
4.	53241110	Maintenance 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
15		2	2	1	15			4	1	20
75%		10%	10%	5%	75%			20%	5%	Credits %



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M. Tech. II Semester (*Environmental Engineering*) (for batch admitted in academic session 2024-25)

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			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.	53241201	DC	Air Pollution & Control	20	20	30	30	-	-	-	-	100	3	-	-	3	Face to Face	PP	2 Hrs
2.	53241202	DC	Advanced Treatment Process – II (Water Supply Engineering)	20	20	30	30	-	-	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
3.	53241203	DC	Environmental Impact Assessment	20	20	30	30	-	-	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
4.	532412XX	DE	Departmental Elective* (DE-2)	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
5.	53241204	SPC	Emerging technologies for Environmental Management (SPC-2)	20	20	30	30	-	-	-	-	100	2	1	-	3	Face to Face	PP	2 Hrs
6.	53241205	DLC	Advanced Environmental Engineering Lab [#]	-	-	-	-	70	30	-	-	100	-	-	4	2	Experiential	SO	-
7.	53241206	SLP	Seminar/Presentation [§]	-	-	-	-	70	30	-	-	100	-	-	4	2	Mentoring	SO	-
8.	NECXXXXX	NEC	Classified Novel Engaging Course (Activity Based Learning)	-	-	-	-	-	50	-	-	50	-	1	-	1	Interactive	SO	-
Total				80	80	120	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.		
2.		
3.		

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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M. Tech. III Semester (*Environmental Engineering*) (for batch admitted in academic session 2024-25)

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.	53242101	DLC	Preliminary Dissertation <i>(Literature Review/ Problem Foundation/ Synopsis/ survey paper, etc.)</i>	-	-	-	-	175	75	250	-	-	28	14	Interactive	SO	-
Total				-	-	-	-	175	75	250	-	-	28	14	-	-	-



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M. Tech. IV Semester (*Environmental Engineering*) (for batch admitted in academic session 2024-25)

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.	53242201	DLC	Dissertation	-	-	-	-	350	150	500	-	-	32	16	Interactive	SO	-
Total				-	-	-	-	350	150	500	-	-	32	16	-	-	-