

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

**Department of Civil Engineering**

**Scheme of Evaluation**

**B. Tech. I Semester CIVIL ENGINEERING**

*(for batch admitted in academic session 2022-23)*

No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	2100011	BSC	Engineering Mathematics – I (BSC - 1)	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	2160122	ESC	Computer Programming (ESC - 1)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
3.	2100014	ESC	Engineering Graphics (ESC - 2)	50	10	20	20	-	-	-	100	1	2	-	3	Offline	AO	2 Hrs
4.	2110121	DC	Building Materials & Construction (DC - 1)	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP	2 Hrs
5.	2110122	DC	Engineering Mechanics (DC - 2)	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
6.	2100018	ESC	Engineering Graphics Lab (ESC - 3)	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>60</b>	<b>800</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>19</b>	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

**Induction programme of three weeks (MC): Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations.**

<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject  
 Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language, Credits of natural Sciences & Skills will be added in VI Semester.

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

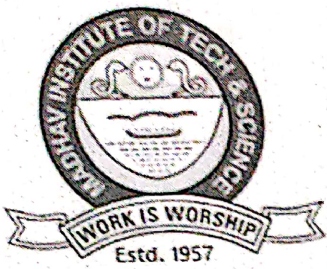
Mode of Teaching			Mode of Examination				Total Credits
Theory	Lab		Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO
7		9	3	10	6		3
37%		49%	16%	51%	33%		16%
							Credits %

*M/O*  
22/08/2023  
**DEAN (ACADEMICS)**  
**MITS**  
**GWALIOR**

Civil Engineering Department, MITS Gwalior

*(Signatures)*





**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

**Department of Civil Engineering**  
**Scheme of Evaluation**  
**B. Tech. II Semester CIVIL ENGINEERING**

**(for batch admitted in academic session 2022-23)**

No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam.	Duration of Exam.
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	2110221	DC	Surveying (DC - 3)	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
2.	2110222	DC	Strength of Materials (DC - 4)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	2100021	ESC	Basic Mechanical Engineering (ESC - 4)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	MCQ	1.5 Hrs
4.	2100022	ESC	Basic Electrical & Electronics Engineering (ESC - 5)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	2160222	ESC	Python Programming (ESC - 6)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
6.	2110223	DLC	Survey Practice Lab (DLC - 2)	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>180</b>	<b>60</b>	<b>80</b>	<b>800</b>	<b>13</b>	<b>4</b>	<b>8</b>	<b>19</b>	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

**Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.**

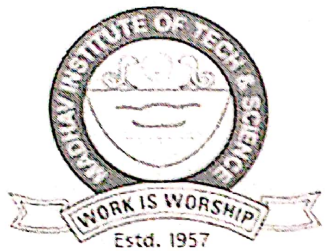
<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject  
Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language, Credits of natural Sciences & Skills will be added in VI Semester.

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

Mode of Teaching				Mode of Examination				Total Credits
Theory		Lab		Theory			Lab	
Offline	Online	Blended	Offline	PP	AO	MCQ	SO	
		15	4	6	3	6	4	Credits %
		89%	21%	32%	15%	32%	21%	

Civil Engineering Department, MITS Gwalior





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute affiliated to RGPV, Bhopal)

## Department of Civil Engineering

### Scheme of Evaluation

### B. Tech. III Semester *CIVIL ENGINEERING*

(for batch admitted in academic session 2022-23)

No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam	Duration of Exam
				Theory Slot				Practical Slot				L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	<sup>S</sup> Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project								
1.	2100025	BSC	Engineering Mathematics - II (BSC - 2)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
2.	2110321	DC	Fluid Mechanics - I (DC - 5)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	2110322	DC	Theory of Structure - I (DC - 6)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	2110323	DC	Geotechnical Engineering (DC - 7)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
5.	2110324	DC	Transportation Engineering (DC - 8)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
6.	2110325	DLC	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)*	-	-	-	-	-	40	-	40	-	-	2	1	Online + Mentoring	SO	-
7.	2110326	DLC	Summer Internship Project-I (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO	-
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO	-
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>290</b>	<b>100</b>	<b>60</b>	<b>950</b>	<b>10</b>	<b>5</b>	<b>14</b>	<b>22</b>	-	-	-
9.	3000001	Natural Sciences & Skills	Engineering Physics	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
10.	1000005	MAC	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	GRADE	Blended	MCQ	1.5 Hrs

\*compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

<sup>S</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject Natural Sciences & Skills: Engineering Physics /Engineering Chemistry /Environmental Engineering /Language, Credits of natural Sciences & Skills will be added in VI Semester. MCQ: Multiple Choice Question AO: Assignment + Oral OB: Open Book PP: Pen Paper SO: Submission + Oral

Mode of Teaching						Mode of Examination					Total Credits
Theory		Lab/SIP	Seminar	NEC		Theory		Lab	SIP/SLP/NEC		
Offline	Online	Blended	Offline	Online Mentoring	Interactive	PP	AO	MCQ	SO	SO	
		15	5	1	1	9		6	3	4	22
		68%	22%	5%	5%	41%		27%	13%	19%	Credits %

Civil Engineering Department, MITS Gwalior





# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute affiliated to RGPV, Bhopal)

NAAC Accredited with A++ Grade

Department of Civil Engineering

Scheme of Evaluation

B. Tech. IV Semester **CIVIL ENGINEERING**

(for batch admitted in academic session 2022-23)

No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted						Total Marks	Contact Hours per week			Total Credits	Mode of Teaching	Mode of Exam	Duration of Exam	
				Theory Slot				Practical Slot			L	T	P					
				End Term Evaluation		Continuous Evaluation		End Sem. Exam	Continuous Evaluation									
				End Sem. Exam	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab Work & Sessional									Skill Based Mini Project
1.	2100028	BSC	Engineering Mathematics - III (BSC - 4)	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	2110421	DC	Fluid Mechanics - II (DC - 9)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
3.	2110422	DC	Theory of Structure - II (DC - 10)	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP	2 Hrs
4.	2110423	DC	Water Supply Engineering (DC - 11)	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
5.	2110424	DC	Water Resources Engineering (DC - 12)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
6.	2110425	DLC	Civil Drawing Lab (DLC - 3)	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-
7.	2110426	MC	Cyber Security	50	10	20	20	-	-	-	100	2	-	-	2	Online	MCQ	1.5 Hrs
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO	-
<b>Total</b>				<b>300</b>	<b>60</b>	<b>120</b>	<b>120</b>	<b>170</b>	<b>40</b>	<b>40</b>	<b>850</b>	<b>13</b>	<b>5</b>	<b>6</b>	<b>21</b>	-	-	-
9.	3000002	Natural Sciences & Skills	Engineering Chemistry	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
10.	1000001	MAC	Indian Constitution & Traditional Knowledge	50	10	20	20	-	-	-	100	2	-	-	GRADE	Online	MCQ	1.5 Hrs

<sup>5</sup>Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject

Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Engineering / Language, Credits of natural Sciences & Skills will be added in VI Semester.

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

Mode of Teaching						Mode of Examination					Total Credits	
Theory			Lab/SIP			Theory			Lab			SIP/SLP/NEC
Offline	Online	Blended	Offline	Online Mentoring	Interactive	PP	AO	MCQ	SO	SO		
7	2	9	2		1	16		2	2	1	21	
33%	9%	43%	9%		6%	76%		9%	9%	6%	Credits %	

*Corrected scheme*  
*MS mede*





माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA**  
 Deemed to be University  
 (Declared under Distinct Category by Ministry of Education, Government of India)  
 NAAC ACCREDITED WITH A++ GRADE



**DEPARTMENT OF CIVIL ENGINEERING**

**Scheme of Evaluation**

**B. Tech. V Semester (Civil Engineering)**

For batch admitted in academic session 2022 – 23

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Offline/ Online)	Mode of Exam
				Theory Slot				Practical Slot				L	T	P			
				End Term Evaluation		Continuous Evaluation		End Sem Exam	Continuous Evaluation								
				End Sem Exam	Proficiency in subject /course	Mid Sem	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project							
1.	2110520	MC	Data Science	50	10	20	20	60	20	20	200	3	0	2	4	Blended	MCQ
2.	2110511	DC	Wastewater Engineering (DC - 10)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
3.	2110512	DC	Estimating Costing & Contracting (DC - 11)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
4.	2110513	DC	Structural Design & Drawing (RCC) (DC - 12)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
5.	2110514	DC	Railway, Airport and Tunnel Engineering (DC - 13)	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
6.	2110515	DLC	Minor Project – I (DLC – 3)**	-	-	-	-	60	40	-	100	-	-	4	2	Offline	SO
7.	2110516	DLC	Self-learning/Presentation (SWAYAM /NPTEL/ MOOC)*	-	-	-	-	-	40	-	40	-	-	2	1	Online + Mentoring	SO
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	2110517	DLC	Summer Internship Project-II (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
<b>Total</b>				<b>250</b>	<b>50</b>	<b>100</b>	<b>100</b>	<b>230</b>	<b>100</b>	<b>20</b>	<b>850</b>	<b>11</b>	<b>4</b>	<b>14</b>	<b>22</b>	-	-
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ
<b>Additional Courses for obtaining Honours or Minor Specialization</b>				<b>Permitted to opt for maximum 02 additional courses for the award of Honours or Minor Specialization</b>													

\* compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

\*Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject

MCQ – Multiple Choice Questions, PP – Pen paper Mode, A+O – Assignment+ Oral, SO – Submission+ Oral

\*\* The Minor Project-I may be evaluated by an internal committee for awarding sessional marks.

Mode of Teaching						Mode of Examination						Total Credits
Theory			Lab / SIP	Seminar	NEC	Theory			Lab	SIP/SIP/NEC		
Offline	Online	Blended	Offline	Online Mentoring	Interactive	PP	A+O	MCQ	SO	SO		
-	-	15	5	1	1	12	-	3	4	3	22	
-	-	68%	23%	4.5%	4.5%	54%	-	14%	18%	14%	Credits %	

*Signature*  
19/07/2024

Civil Engineering Department, MITS Gwalior

*Signature*  
19/07/2024