

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	-
Total				250	50	100	100	180	60	60	800	12	4	6	19	-	-	-
7.	3000003	Natural Sciences & Skills	Environmental Engineering	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs
<p align="center">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.</p>																		

⁵Proficiency 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.

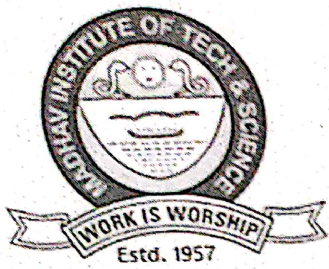
MCQ: Multiple Choice Question AO: Assignment + Oral OB: Open Book PP: Pen Paper SO: Submission + Oral

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	-
Total				250	50	100	100	180	60	80	800	13	4	8	19	-	-	-
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	30	10	10	150	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

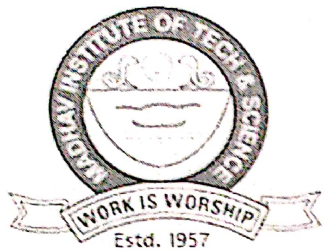
Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.

⁵Proficiency 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	^S 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	-
Total				250	50	100	100	290	100	60	950	10	5	14	22	-	-	-
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

^SProficiency 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	-
Total				300	60	120	120	170	40	40	850	13	5	6	21	-	-	-
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

⁵Proficiency 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
7	2	9	2		1	16		2	2	1	21
33%	9%	43%	9%		6%	76%		9%	9%	6%	Credits %

Corrected scheme
MS mede



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
Total				250	50	100	100	230	100	20	850	11	4	14	22	-	-
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ

Additional Courses for obtaining Honours or Minor Specialization Permitted to opt for maximum 02 additional courses for the award of Honours or Minor Specialization

* 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/SLP/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
 16/7/24
 Secretary

Civil Engineering Department, MITS Gwalior

Signature
 15/7/24
 Dean
 MITS-DU



Scheme of Evaluation
B. Tech. VI Semester (Civil Engineering)

For batches admitted in academic session 2022-23

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted									Contact Hours per week			Total Credits	Mode of Teaching (Offline/ Online)	Mode of Exam	Duration of Exam	
				Theory Slot				Practical Slot			MOOCS		Total Marks	L	T					P
				End Sem.	Mid Sem	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project	Assignment	Exam									
				End Term Evaluation								Proficiency in subject /course								
1.	2110620	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	MCQ	1.5 Hrs
2.	2110621	DC	Solid & Hazardous Waste management (DC - 14)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	MCQ	1.5 Hrs
3.	2110622	DC	Structural Design & Drawing (Steel) (DC - 15)	50	10	20	20	-	-	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs
4.	21106XX	DE	Departmental Elective - I (DE - 1)*	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	3 Hrs
5.	910XXX	OC	Open Category Course - I (OC - 1)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
6.	2110623	DLC	Minor Project - II (DLC - 4)	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO	-
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO	-
8.		NSS	**Natural Sciences & Skills	200	40	80	80	120	40	40	-	-	600	1	-	2	2*	-	-	-
Total				400	80	160	160	290	100	60	25	75	1350	15	1	8	22	-	-	-
9.	1000007	MAC	Intellectual Property Rights	50	10	20	20	-	-	-	-	-	100	2	-	-	Grade	Online	MCQ	1.5 Hrs
Additional Courses for obtaining Honours or Minor Specialization				Permitted to opt for maximum 02 additional courses for the award of Honours or Minor Specialization																
Summer Internship Project - III (On Job Training) for four weeks duration: Evaluation in VII Semester																				

*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

*Course will run through SWAYAM/NPTEL/MOOC with credit transfer

**Natural Sciences & Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language

("Natural Sciences & Skills" treated as Mandatory Audit Courses from first to fourth semester and cumulative marks converted as a cluster of credits and awarded in the VI semester)

Mode of Teaching						Mode of Examination						Total Credits
Theory			Lab	MOOC	NEC	Theory			Lab	SIP/SLP/NEC		
Offline	Online	Blended	Offline	Online Mentoring	Interactive	PP	A+O	MCQ	SO	SO		
		13	3	3	1	7	-	9	3	1	22	
		65%	15%	15%	5%	35%	-	45%	15%	5%	Credits %	

Departmental Elective I (SWAYAM/NPTEL) (DE-1)

- 2110661, Geotechnical Engineering II - Foundation Engineering
- 2110662, Remote Sensing and GIS for Rural Development

Open Category Course - I (OC-1)

- 910111, Building Maintenance & Services
- 910110, Sustainable Materials & Green Buildings

16/12/24

16/12/24

16/12/24