

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

Scheme of Examination
GROUP X: II Semester

B. Tech. II Semester (Civil Engineering)

For batches admitted in academic session 2021 – 22 onwards

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 Exam	Quiz/ Assignment		Lab Work & Sessional	Skill Based Mini Project							
1.	110211	DC	Building Planning & Design (DC - 1)	50	10	20	20	-	-	-	100	3	-	-	3	Blended (2/1)	PP
2.	100020	ESC	Basic Civil Engineering & Mechanics (ESC - 3)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
3.	100021	ESC	Basic Mechanical Engineering (ESC - 4)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	MCQ
4.	100022	ESC	Basic Electrical & Electronics Engineering (ESC - 5)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	MCQ
5.	100023	ESC	Basic Computer Engineering (ESC - 6)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	A+O
6.	100024	ESC	Manufacturing Practices (ESC - 7)	-	-	-	-	60	20	20	100	-	-	2	1	Offline (1/0)	SO
7.	100026	ESC	Basic Civil Engineering Lab (ESC - 8)	-	-	-	-	60	20	20	100	-	-	2	1	Offline (1/0)	SO
Total				250	50	100	100	240	80	80	900	11	4	8	19	-	-

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

The certification/marksheet will be issued separately by examination cell.

Mode of Teaching				Mode of Examination				Total Credits	
Theory		Lab		Theory			Lab		
Offline	Online	Blended		Offline	PP	A+O	MCQ		SO
		Offline	Online						
-	-	10	5	4	6	3	6	4	19
-	-	53%	26%	21%	32%	15%	32%	21%	Credits %

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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DEPARTMENT OF CIVIL ENGINEERING
Scheme of Evaluation

B. Tech. III Semester (Civil Engineering)

For batches admitted in academic session 2021– 22 onwards

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.	100025	BSC	Engineering Mathematics – II (BSC – 3)	50	10	20	20	-	-	-	100	2	1	-	3	Offline (3/0)	PP
2.	110311	DC	Building Materials & Construction (DC – 2)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	110312	DC	Fluid Mechanics - I (DC – 3)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
4.	110313	DC	Surveying (DC – 4)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
5.	110314	DC	Strength of Materials (DC – 5)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
6.	110315	DLC	Survey Practice Lab (DLC – 1)	-	-	-	-	60	20	20	100	-	-	2	1	Offline (1/0)	SO
7.	110316	DLC	Self-learning /Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	-	40	-	40	-	-	2	1	Online + Mentoring	SO
8.	200XXX	DC	Novel Engaging Course (Innovative Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	110317	DLC	Summer Internship Project-I (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline (2/0)	SO
Total				250	50	100	100	350	120	80	1050	10	5	16	23	-	-
10.	1000005	MAA	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ

* compulsory registration for 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

Mode of Teaching							Mode of Examination					Credits %
Theory				Lab/SIP	Seminar	NEC	Theory			Lab	SIP/SLP/NEC	
Offline	Online	Blended					Interactive	PP	A+O			
		Offline	Online	SO	SO							
3	-	8	4	6	1	1	15	-	-	4	4	23
13%	-	35%	18%	26%	4%	4%	64%	-	-	18%	18%	Credits %

Aditya
4/7/2022

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Civil Engineering Department, MITS Gwalior

DEAN (ACADEMICS)
M.I.T.S
GWALIOR

M. Kumar
04/07/2022

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. IV Semester (Civil Engineering)

For batches admitted in academic session 2021–22 onwards

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.	100028	BSC	Engineering Mathematics – III (BSC - 4)	50	10	20	20	-	-	-	100	2	1	-	3	Offline (3/0)	PP
2.	110411	DC	Geotechnical Engineering - I (DC - 6)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	MCQ
3.	110412	DC	Theory of Structure - I (DC - 7)	50	10	20	20	-	-	-	100	2	1	-	3	Offline (3/0)	PP
4.	110413	DC	Transportation Engineering (DC - 8)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	MCQ
5.	110414	DC	Water Resources Engineering (DC - 9)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	110415	DLC	Civil Drawing Lab (DLC - 2)	-	-	-	-	60	20	20	100	-	-	2	1	Offline (1/0)	SO
7.	100009	MC	Cyber Security	50	10	20	20	-	-	-	100	2	-	-	2	Online (0/2)	MCQ
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
Total				300	60	120	120	290	60	60	950	12	5	8	21	-	-
9.	1000001	MAC	Indian Constitution & Traditional Knowledge	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ

Summer Internship Project-II (Soft skills Based) for two weeks duration: Evaluation in V Semester

⁵Proficiency 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

Mode of Teaching					Mode of Examination					Total Credits	
Theory		Blended	Lab	NEC	Theory			Lab	NEC		
Offline	Online				Offline	Interactive	PP				A+O
6	2	6	3	3	1	9	-	8	3	1	21
29%	10%	29%	14%	14%	4%	44%	-	38%	14%	4%	Credits %

MHO
02/03/2022

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Civil Engineering Department, MITS Gwalior

DEAN (ACADEMICS)
MITS
GWALIOR

DEPARTMENT OF CIVIL ENGINEERING
Scheme of Evaluation

B. Tech. V Semester (Civil Engineering)

For batches admitted in academic session 2021 – 22 onwards

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.	110520	MC	Data Science	50	10	20	20	60	20	20	200	3	0	2	4	Blended (2/1)	MCQ
2.	110511	DC	Water Supply Engineering (DC - 10)	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	110512	DC	Theory of Structure – II (DC - 11)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
4.	110513	DC	Structural Design & Drawing (RCC) (DC - 12)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
5.	110514	DC	Fluid Mechanics – II (DC - 13)	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	110515	DLC	Minor Project – I (DLC – 3)**	-	-	-	-	60	40	-	100	-	-	4	2	Offline (2/0)	SO
7.	110516	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.	110517	DLC	Summer Internship Project-II (Institute Level) (Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline (2/0)	SO
Total				250	50	100	100	290	120	40	950	11	4	16	23	-	-
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ
Additional Courses for obtaining Honours or Minor Specialization				Permitted to opt for <u>maximum 02 additional courses</u> 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

Note: Students of 2020-21 admitted batch needs to appear and complete an additional MAC course of 30 Hrs. duration on Project Management & Financing / other modules related to futuristic technologies (Drones/ Robotics etc.)

** 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	Seminar	NEC	Theory			Lab	SIP/SLP/NEC			
Offline	Online				PP	A+O	MCQ			SO	SO	
-	-	10	5	6	1	1	12	-	3	4	4	23
-	-	43%	22%	27%	4%	4%	52%	-	14%	17%	17%	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

M/O
03/01/2024
DEAN (ACADEMICS)
M.I.T.S
GWALIOR

DEPARTMENT OF CIVIL ENGINEERING
Scheme of Evaluation
B. Tech. VI Semester (Civil Engineering)

For batches admitted in academic session 2021-22

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			MOOCs				L	T	P			
				End Sem.	Mid Sem	Quiz/Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project	Assignment/Online	Exam	End Term Evaluation							
1.	110620	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	Blended (2/1)	200	3	-	2	4	Blended (2/1)	MCQ	
2.	110621	DC	Wastewater Engineering(DC - 14)	50	10	20	20	-	-	-	Blended (2/1)	100	2	1	-	3	Blended (2/1)	PP	
3.	110622	DC	Structural Design & Drawing (Steel) (DC - 15)	50	10	20	20	-	-	-	Blended (2/1)	100	2	1	-	3	Blended (2/1)	PP	
4.	110623	DC	Estimating Costing & Contracting (DC - 16)	50	10	20	20	-	-	-	Blended (2/1)	100	2	1	-	3	Blended (2/1)	PP	
5.	1106XX	DE	Departmental Elective - I (DE - 1)*	-	-	75	-	-	-	-	Blended (2/1)	100	3	-	-	3	Online (0/3)	MCQ	
6.	910XXX	OC	Open Category Course - I (OC - 1)	50	10	20	20	-	-	-	Blended (2/1)	100	3	-	-	3	Blended (2/1)	PP	
7.	110624	DLC	Minor Project - II (DLC - 4)	-	-	-	-	60	40	-	Online (2/0)	100	-	-	4	2	Offline (2/0)	SO	
8.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	Interactive	50	-	-	2	1	Interactive	SO	
Total				250	50	75	100	100	170	60	25	75	850	15	3	8	22		
9.	1000007	MAC	Intellectual Property Rights	50	10	20	20	-	-	-	Online	100	2	-	-	Grade	Online	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

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

Mode of Teaching					Mode of Examination					Total Credits
Theory		Lab	MOOC	NEC	Theory		Lab	SIP/SLP/NEC		
Offline	Online				Offline	Online			PP	
-	-	3	3	1	12	-	3	1	22	
-	-	13%	13%	5%	55%	-	13%	5%	Credits %	

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

- 110661, Geotechnical Engineering II - Foundation Engineering
- 110662, Concrete Technology
- 110663, Air Pollution & Control

Open Category Course - I (OC-1)

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

Civil Engineering Department, MITS Gwalior
[Signatures]