

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

Scheme of Examination
GROUP B: I Semester
B. Tech. I Semester (Civil Engineering)

For batches admitted in academic session 2018 – 19 onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per Week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work / Sessional					
1.	100101	BSC	Engineering Chemistry (BSC-1)	70	20	10	30	20	150	3	-	2	4
2.	100102	BSC	Engineering Mathematics –I (BSC-2)	70	20	10	-	-	100	3	1	-	4
3.	100103	HSMC	Technical English (HSMC-1)	70	20	10	30	20	150	3	-	2	4
4.	100104	ESC	Basic Electrical & Electronics Engineering (ESC-1)	70	20	10	30	20	150	3	-	2	4
5.	100105	ESC	Engineering Graphics (ESC-2)	70	20	10	30	20	150	2	-	2	3
6.	100106	ESC	Manufacturing Practices (ESC-3)	-	-	-	30	20	50	-	-	2	1
			Total	350	100	50	150	100	750	14	1	10	20
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.													
NSS / NCC				Qualifier									

GROUP A: (Electrical, Electronics, Computer Science, Information Technology, Electronics & Telecommunication)

GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

01 Theory Period = 1 Credit; 01 Tutorial Period = 1 Credit; 02 Practical Periods = 1 Credit

13/1
[Handwritten signatures]

[Handwritten signatures]

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

Scheme of Examination
GROUP B: II Semester
B. Tech. II Semester (Civil Engineering)

For batches admitted in academic session 2018 – 19 onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per Week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work / Sessional					
1.	100201	BSC	Engineering Physics (BSC-3)	70	20	10	30	20	150	2	1	2	4
2.	100202	HSMC	Energy, Environment, Ecology & Society (HSMC-2)	70	20	10	-	-	100	3	-	-	3
3.	100203	ESC	Basic Computer Engineering (ESC-4)	70	20	10	30	20	150	3	-	2	4
4.	100204	ESC	Basic Mechanical Engineering (ESC-5)	70	20	10	30	20	150	3	-	2	4
5.	100205	ESC	Basic Civil Engineering & Mechanics (ESC-6)	70	20	10	30	20	150	3	-	2	4
6.	100206	HSMC	Language Lab. & Seminars (HSMC-3)	-	-	-	30	20	50	-	-	4	2
Total				350	100	50	150	100	750	14	1	12	21
Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester.													
NSS / NCC				Qualifier									

GROUP A: (Electrical, Electronics, Computer Science, Information Technology, Electronics & Telecommunication)

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

Scheme of Examination

B. Tech. III Semester (Civil Engineering)

For batches admitted in academic session 2018 – 19 onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per Week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab Work / Sessional					
1.	100001	BSC	Engineering Mathematics-II (BSC-4)	70	20	10	-	-	100	3	1	-	4
2.	110302	DC	Building Planning & Design (DC-1)	70	20	10	-	-	100	3	1	-	4
3.	110303	DC	Building Materials & Construction (DC-2)	70	20	10	30	20	150	3	-	2	4
4.	110304	DC	Surveying (DC-3)	70	20	10	30	20	150	3	-	2	4
5.	110305	DC	Strength of Materials (DC-4)	70	20	10	30	20	150	3	-	2	4
6.	110306	DLC	Software Lab (DLC-1)*	-	-	-	30	20	50	-	-	2	1
7.	110307	Seminar / Self Study	Self Learning/Presentation (Through Swayam/NPTEL/MOOC)#	-	-	-	-	25	25	-	-	2	1
8.	110308	DLC	Summer Internship Project - I (Institute Level) (Evaluation)	-	-	-	25	-	25	-	-	4	2
Total				350	100	50	145	105	750	15	2	14	24
NSS / NCC				Qualifier									

#Compulsory registration for one online course using SWAYAM / NPTEL / MOOC, evaluation through attendance, assignment and presentation.

*Virtual Lab to be conducted along with traditional Lab.

GROUP A: (Electrical, Electronics, Computer Science, Information Technology, Electronics & Telecommunication)

GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

123


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

Scheme of Examination
B. Tech. IV Semester (Civil Engineering)

For batches admitted in academic session 2018 – 19 onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Periods per Week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab Work / Sessional					
1.	100003	BSC	Engineering Mathematics – III (BSC-5)	70	20	10	-	-	100	2	2	-	4
2.	110402	DC	Geotechnical Engineering (DC-5)	70	20	10	30	20	150	2	1	2	4
3.	110403	DC	Fluid Mechanics – I (DC-6)	70	20	10	30	20	150	2	1	2	4
4.	110404	DC	Structural Analysis (DC-7)	70	20	10	-	-	100	3	1	-	4
5.	110406	DC	Water Resources Engineering (DC-8)	70	20	10	-	-	100	3	1	-	4
6.	100004	MC	Cyber Security (MC)	70	20	10	-	-	100	2	1	-	3
7.	110407	DLC	Survey Practice Lab (DLC-2)*	-	-	-	30	20	50	-	-	6	3
Total				420	120	60	90	60	750	14	7	10	26
8.	100002 ⁵	MC	Biology for Engineers (Audit Course) (MC)	70	20	10	-	-	100	3	-	-	-
NSS/NCC				Qualifier									
Summer Internship Project – II (Soft Skills Based) for two weeks duration: Evaluation in V Semester													

⁵ This course will run for Group B/A in IV/III semester respectively. (This is a non-credit course and it is optional to appear & pass in the end semester examination. However, a separate mark sheet will be issued to those who will qualify)

*Virtual Lab to be conducted along with traditional Lab.

GROUP A: (Electrical, Electronics, Computer Science, Information Technology, Electronics & Telecommunication)

GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

M. Pandey

12/12/2020
DEAN (ACADEMICS)
-MITS
GWALIOR

Asya P *M. Singh* *Suraj* *Dr. P. K. Singh* *Dr. P. K. Singh* *Dr. P. K. Singh* *Dr. P. K. Singh*

134

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

ANNEXURE - IX

Scheme of Examination

B. Tech. V Semester (Civil Engineering)

For batches admitted in academic session 2018 – 19 onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Periods per Week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Lab work / Sessional					
1.	110501	DC	Estimating, Costing & Contracting (DC-9)	70	20	10	-	-	100	3	1	-	4
2.	110502	DC	Structural Design & Drawing (RCC) (DC-10)	70	20	10	-	-	100	3	1	-	4
3.	110503	DC	Fluid Mechanics – II (DC-11)	70	20	10	30	20	150	2	1	2	4
4.	110509	DC	Environmental Engineering (DC-12)	70	20	10	30	20	150	2	1	2	4
5.	110505	DC	Transportation Engineering (DC-13)	70	20	10	30	20	150	2	1	2	4
6.	110506	DLC	Minor Project – I**(DLC-3)	-	-	-	30	20	50	-	-	2	1
7.	110507	DLC	Summer Internship Project – II (Evaluation) (DLC-4)	-	-	-	25	-	25	-	-	6	3
8.	110508	Seminar / Self Study	Self Learning/ Presentation (Through Swayam/NPTEL/MOOC)*	-	-	-	-	25	25	-	-	2	1
Total				350	100	50	145	105	750	12	5	16	25
Department Level activity / workshop / awareness programme to be conducted; certificate of compliance to be submitted by HoD to the Exam controller through Dean Academics													
9.		Additional Courses for obtaining Honours or Minor Specialization by desirous students		Permitted to opt for <u>maximum 02 additional courses</u> for the award of Honours or Minor Specialization									

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

*Compulsory registration for one online course using SWAYAM / NPTEL / MOOC, evaluation through attendance, assignment and presentation.

GROUP A: (Electrical, Electronics, Computer Science, Information Technology, Electronics & Telecommunication)

GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

(Handwritten signatures and marks)

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

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

[For batch admitted in Academic Session 2018-19 onwards]

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted						Total Marks	Contact Periods per Week			Total Credits		
				Theory Slot			Practical Slot				MARKS		L		T	P
				End Sem.	Mid Sem.	Quiz / Assignment	End Sem.	Lab Work / Sessional	Assignment		Exam					
1.	100005*	HSMC	Ethics, Economics, Entrepreneurship & Management (HSMC-4)	70	20	10	-	-	-	-	100	3	-	-	3	
2.	110602	DC	Structural Design & Drawing (Steel) (DC-14)	70	20	10	-	-	-	-	100	3	1	-	4	
3.		DE	(DE-1)*	70	20	10	-	-	-	-	100	3	1	-	4	
4.		DE	(DE-2)*	-	-	-	-	-	25	75	100	3	1	-	4	
5.		OC	(OC-1)*	70	20	10	-	-	-	-	100	2	1	-	3	
6.	100007	MC	Disaster Management (MC)	70	20	10	-	-	-	-	100	3	-	-	3	
7.	110607	DLC	Minor Project – II (DLC-5)	-	-	-	100	50	-	-	150	-	-	4	2	
Total				350	100	50	100	50	25	75	750	17	4	4	23	
8.	100006	MC	Indian Constitution & Traditional Knowledge (Audit course) (MC)	70	20	10	-	-	-	-	100	3	-	-	-	
9.	Additional Courses for obtaining Honours or Minor Specialization by desirous students			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

*This course will run for Group B/A in VII semester respectively

*This course will run for Group B/A in VII semester respectively. (Passing is optional, however a separate marksheet will be issued to those who qualify)

*At least one of these courses must be run through SWAYAM/ NPTEL/ MOOC.

GROUP A: (Electrical, Electronics, Computer Science, Information Technology, Electronics & Telecommunication)

GROUP B: (Civil Mechanical, Chemical, Biotech, Automobile)

SEMESTER – VI		
DE – I	DE – 2 (Through SWAYAM/NPTEL)	OC – I
110612. Solid Waste Management	110651. Maintenance & Repair of Concrete Structures.	1 Numerical Methods in Engineering
110613. Construction Planning & Management	110652. Geotechnical Engineering II (Foundation Engineering)	2 Maintenance Management
110614 Railways, Airport & Tunnel Engineering		

DEAN (ACADEMICS)
M.I.T.S

GWALIOR 6 / Page

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

Scheme of Examination
B. Tech. VII Semester (Civil Engineering)

For batches admitted in academic session 2018 – 19

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted						Total Marks	Contact Periods per Week			Total Credits	
				Theory Slot			Practical Slot		MOOCS		L	T	P		
				End Sem.	Mid Sem.	Quiz / Assignment	End Sem.	Lab Work / Sessional	Assignment						Exam
1.		DE	(DE-3)*	70	20	10	-	-			100	3	-	-	3
2.		DE	(DE-4)*	-	-	-	-	-	25	75	100	2	-	-	2
3.		OC	(OC-2)*	70	20	10	-	-			100	2	1	-	3
4.		OC	(OC-3)*	70	20	10	-	-			100	3	-	-	3
5.	100008	MC	Intellectual Property rights (IPR) (MC)	70	20	10	-	-			100	2	-	-	2
6.	110701	DLC	Software Application for Solving Civil Engineering Problems (DLC-6)	-	-	-	50	50			100	-	-	4	2
7.	110702	DLC	Summer Internship Project – III (04 weeks) (Evaluation) (DLC-7)	-	-	-	50	50			100	-	-	4	2
8.	110703	DLC	Creative Problem Solving (Evaluation) (DLC-8)	-	-	-	25	25			50	-	-	2	1
Total				280	80	40	125	125	25	75	750	12	1	10	18
9.		Additional Courses for obtaining Honours or Minor Specialization by desirous students		Permitted to opt for <u>maximum 02 additional courses</u> for the award of Honours or Minor Specialization											

* At least one of these courses must be run through SWAYAM / NPTEL / MOOC.

SEMESTER – VII			
DE – 3	DE – 4 (Through SWAYAM/NPTEL)	OC – 2	OC – 3
110713. Advanced Structural Design (RCC)	110754. Wastewater Treatment & Recycling	900201. Integrated Waste Management for Smart City	900213. Urban Planning & Transportation Systems.
110714. Hydraulic Structure	110755. Introduction to Multimodal Urban Transportation Systems	900202. Project Planning & Control	
110715. Advanced Structural Analysis	110756. Infrastructure Planning & Management		

(Handwritten signatures and initials)

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Scheme of Examination

B. Tech. VIII Semester (Civil Engineering)

(For Batch Admitted in 2018-2019)

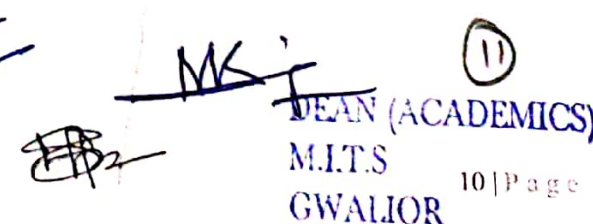
S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Periods per Week			Total Credits
				Theory Slot			Practical Slot		MOOCS			L	T	P	
				End Sem.	Mid Sem.	Quiz / Assignment	End Sem.	Lab Work / Sessional	Assignment	Exam					
1.		DE	(DE-5)*	-	-	-	-	-	25	75	100	3	-	-	3
2.		DE	(DE-6)*	-	-	-	-	-	25	75	100	4	-	-	4
3.		OC	(OC-4)*	-	-	-	-	-	25	75	100	2	-	-	2
4.	110801	DLC	Internship / Project (DLC-9)	-	-	-	250	150	-	-	400	-	-	6	3
5.	110802	PD	Professional Development [#]	-	-	-	-	50	-	-	50	-	-	2	1
Total				-	-	-	250	200	75	225	750	9	-	8	13
6.		Additional Courses for obtaining Honours or Minor Specialization by desirous students		Permitted to opt for <u>maximum 02 additional courses</u> for the award of Honours or Minor Specialization											

*Evaluation will be based on participation/laurels brought by the students to the institution in national/state level technical and other events during the complete tenure of the UG program (participation in professional chapter activities, club activities, cultural events, sports, personality development activities, collaborative events, MOOCs and technical events)

SEMESTER – VIII		
DE – 5 (Through SWAYAM/NPTEL/MITS MOOC)	DE – 6 (Through SWAYAM/NPTEL/MITS MOOC)	OC – 4 (Through SWAYAM/NPTEL)
110851. Safety in Construction	110855. Environmental Impact Assessment	900629 Air Pollution & Control
110856. Rock Engineering	110857. Strategies for Sustainable Design	Rural Water Resources Management (900632)
	110858. Scientific Computing using Matlab	
	110859. Disaster Recovery & Build back Better	

[Handwritten signatures and initials in the left margin]

Civil Engineering Department, MITS Gwalior


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