

Batch admitted 2022-2026 onwards

B.Tech. I Semester (Electronics and Telecommunication Engineering)

S. 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 Sem.	Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment	End Sem.	Lab Work & Sessional	Skill Based Mini Project								
1.	2100022	BSC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ	1.5 Hrs
2.	2200121	DC	Electronic Engineering Material	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
3.	2200122	DC	Electronic Devices	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
4.	2200123	DC	Network Theory	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	2160122	ESC	Computer Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	2 Hrs
6.	2200124	DLC	Devices & Network Lab	-	-	-	-	60	20	20	100	-	-	4	2	Offline	AO	2 Hrs
Total				250	50	100	100	180	60	60	800	11	4	8	19			
6	3000002	Natural Sciences and Skills	Engineering Chemistry	50	10	20	20	-	-	10	-	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.

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 Science, Language

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

MGC
01.03.2023
DEAN (ACADEMICS)
M.I.T.S
GWALIOR

Mode of Teaching					Mode of Examination				Total Credits
Theory		Blended			Theory			Lab	
Offline	Online	Offline	Online	Offline	PP	A+O	MCQ	SO	
0	0	10	5	5	9	6	4	0	
0%	0%	52.63%	26.31%	26.10%	47.36%	31.57%	21.05%	0%	

Department of Electronics Engineering
MITS Gwalior

Handwritten signatures and initials: Sush B., Sahi, and others.

Batch admitted 2022-2026 onwards
B.Tech: II Semester (Electronics and Telecommunication Engineering)

S. 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	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Lab Work & Sessional	Skill Based Mini Project								
												End Sem.						
1.	2100011	BSC	Engineering Mathematics -I	50	10	20	20	-	-	-	100	3	1	-	4	Offline	PP	2 Hrs
2.	2200221	DC	Digital Circuits & Systems	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	2200222	DC	Electronics Circuits	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
4.	2200223	DC	Signals and Systems	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP	2 Hrs
5.	2200224	DC	Python Programming	50	10	20	20	60	20	20	200	2	1	2	4	Blended	AO	1.5 Hrs
Total				250	50	100	100	180	60	60	800	11	5	6	19			
6	3000001	Natural Sciences and Skills	Engineering Physics	50	10	20	20	-	-	-	-	1	-	2	GRADE	Blended	MCQ	1.5 Hrs

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

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 Science / Language

Credits of Natural Sciences & Skills will be added in the VI Semester.

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

M/S
 07/03/2023
DEAN (ACADEMICS)
M.I.T.S
GWALIOR

Mode of Teaching				Mode of Examination				Total Credits
Theory		Lab		Theory			Lab	
Offline	Online	Blended		Offline	PP	A+O	MCQ	
		Offline	Online	Offline				
4	0	8	4	6	15	4	0	0
21.05%	0%	42.10%	21.05%	31.57%	78.94%	21.05%	0%	0%

Department of Electronics Engineering
 MITS Gwalior

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Department of Electronics Engineering

Scheme of Examination (For Batch admitted in Year 2022-23)

B.Tech. (Electronics & Telecommunication Engineering) III Semester [For batches admitted in Academic Session 2022-23 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 Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project							
				End Term Evaluation	^s Proficiency in subject /course												
1.	2100025	BSC	Engg Mathematics-II	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP
2.	2200320	DC	Analog Communication	50	10	20	20	60	20	20	200	2	1	2	4	Offline	PP
3.	2200322	DC	Analog Integrated Circuits	50	10	20	20	60	20	20	200	2	1	2	4	Offline	PP
4.	2200323	DC	Communication Networks	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP
5.	2200324	DC	Data Communication	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP
6.	2200321	DLC	Hardware Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO
7.	2200316	DLC	Self-learning/ Presentation [#]	-	-	-	-	-	40	-	40	-	-	2	1	Online +Mentoring	SO
8.		CLC	Novel Engaging Course	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	2200317	DLC	Summer Internship Project-I (Institute Level Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
Total				250	50	100	100	290	100	60	950	10	5	14	22		
10.	3000003	Natural Science & Skill	Environmental Engineering	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ
11	1000001	MAC	Indian Constitution and Traditional Knowledge	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ

[#]Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

Mode of Teaching						Mode of Examination					Total Credits
Theory		Blended		Lab	NEC	Theory			Lab	SIP/ SLP/ NEC	
Offline	Online	Offline	Online	Offline	Interactive	PP	A+O	MCQ	SO	SO	
17	0	0	0	4	1	17	0	0	2	3	
77.27%	0	0	0	18.1%	4.54%	77.27%	0%	0%	9.09%	13.63%	Credits %

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute, Affiliated to RGPV, Bhopal (M.P.) India)

NAAC Accredited with A++ Grade

Scheme of Evaluation

B. Tech IV Semester (Electronics 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	Mode of Exam	Duration of Exam	
				Theory Slot				Practical Slot				End Sem. Exam	L	T					P
				End Term Evaluation		Continuous Evaluation		Continuous Evaluation											
				End Sem. Exam	\$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	Lab Work & Sessional	Skill Based Mini Project										
1.	2100003	BSC	Engineering Mathematics-III	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs	
2.	2140411	DC	Digital Communication	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs	
3.	2140412	DC	Linear Control Theory	50	10	20	20	-	-	-	100	3	1	-	4	Blended	PP	2 Hrs	
4.	2140413	DC	Microprocessor & Interfacing	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs	
5	2140414	DLC	Software Lab (Introduction to MATLAB)	-	-	-	-	60	20	20	100	-	-	2	1	Offline	SO	-	
5.	2140415	DC	Cyber Security	50	10	20	20	-	-	-	100	2	-	-	2	Blended	MCQ	1.5 Hrs	
6.	200xxx	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO	-	
Total				250	50	100	100	230	60	60	850	12	4	8	20	-	-	-	
7.	3000004	Natural Sciences & Skills	Language	50	10	20	20	-	-	-	100	1	-	-	Grade	Blended	MCQ	1.5 Hrs	
8.	1000005	MAC	Project Management & Financing	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ	1.5 Hrs	

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

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

Credits of Natural Sciences & Skills will be added in the VI Semester.

Mode of Teaching				Mode of Examination				Total Credits	
Theory			Lab	Theory			Lab		
Offline	Online	Blended		Offline	PP	AO	MCQ		SO
		Offline	Online						
-	-	12	6	2	15	-	3	2	20
-	-	60.00%	30.00%	10.00%	75.00%	-	15.00%	10.00%	100%

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed to be University)
(Declared Under Distinct Category by Ministry of Education, Government of India)
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Scheme of Examination (For the Batch Admitted in the Year 2022-2023)

B.Tech. (Electronics Engineering) V Semester [For batches admitted in Academic Session 2022-23 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 Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project							
				End Term Evaluation	³ Proficiency in subject /course												
1.	2140511	DC	Data Science	50	10	20	20	60	20	20	200	3	-	2	4	Blended	MCQ
2.	2140512	DC	Mobile Communication & 5G Network	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
3.	2140515	DC	VLSI Design	50	10	20	20	60	20	20	200	3	-	2	4	Blended	PP
4.	2140519	DC	Electromagnetic Theory	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
5.	2140520	DC	Digital Signal Processing	50	10	20	20	-	-	-	100	2	1	-	3	Blended	PP
6.	2140516	DLC	Minor Project-I	-	-	-	-	60	40	-	100	-	-	4	2	Offline	SO
7.	2140517	DLC	Self-learning/ Presentation	-	-	-	-	-	40	-	40	-	-	2	1	Online +Mentoring	SO
8.		CLC	Novel Engaging Course	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	2140518	DLC	Soft Skill Internship (Institute Level Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
Total				250	50	100	100	290	120	40	950	11	4	16	23		
Additional Courses for obtaining Honors/Minor Specialization by desirous students								Permitted to opt for <u>maximum two 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																	
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	Grade	Blended	MCQ
Honors		1. Principles and Techniques of Modern Radar Systems 2. Stochastic Control & Communication					1. Hardware modeling using Verilog 2. Analog VLSI Design					1. Nano-Technology, Science and Application 2. Microelectronics: Devices to Circuits					
Minors		Control System					Fundamental of Wireless communication										

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared Under Distinct Category by Ministry of Education, Government of India)
NAAC Accredited with A++ Grade

Scheme of Evaluation
B. Tech. VI Semester (Electronics 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.	
				Theory Slot				Practical Slot			MOOCs		L	T	P				
				End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment								Exam
				End Sem. Exam.	Proficiency in subject/course	Mid Sem. Exam.	Quiz/Assignment		Lab work & Sessional	Skill Based Mini Project									
1.	2140616	DC	Microcontroller Systems and Applications	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
2.	140XXX	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	PP
3.	900XXX	OC	Open Category (OC-1)**	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP
4.	2140617	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	MCQ
5.	2140618	DLC	Minor Project-II [#]	-	-	-	-	60	40	-	-	-	100	-	-	6	3	Offline	SO
6.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Blended	SO
7		NSS	Natural Sciences & Skills ^{##}	200	40	80	80	120	40	40	-	-	600	1	-	2	2*		
Total				350	70	140	140	350	120	80	25	75	1350	13	-	14	20	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ

Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester

Additional Course for Honours or minor Specialization

Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization

^{##}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)

[§]proficiency in course/subject-includes the weightage towards ability/skill/competence level/ expertise attained etc. in that particular course/subject.

^{SS}MCQ: Multiple Choice Question

^{SS}AO: Assignment + Oral

^{SS}PP: Pen Paper

^{SS}SO: Submission + Oral

*Course run through SWAYAM/NPTEL/ MOOC Learning Based Platform with credit transfer

** Course run in traditional mode

[#]The minor project-II may be evaluated by an internal committee for awarding sessional marks.

*This course run through SWAYAM/NPTEL/ MOOC platform

*DE-1 (SWAYAM/NPTEL/ MOOC platform)		**Open Category (OC-1)(For students of other branches)	
140665	Electromagnetic Waves in Guided and Wireless Media	900116	Embedded Systems
140662	Digital IC Design	900117	Intelligent Control
140663	Fuzzy sets, logic and System & Applications		