

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Department of Electronics Engineering

Scheme of Examination For batch admitted in Academic Session 2021-2022

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

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	Proficiency in subject /course												
1.	100013	BSC	Engineering Physics	50	10	20	20	60	40	-	200	2	1	2	4	Blended (2/1)	MCQ
2.	100020	ESC	Basic Civil Engineering & Mechanics	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
3.	100021	ESC	Basic Mechanical Engineering	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	MCQ
4.	100022	ESC	Basic Electrical & Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	MCQ
5.	100023	ESC	Basic Computer Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	AO
6.	140111/ 200111	ESC	Electronics Workshop	-	-	-	-	60	20	20	100	-	-	2	1	Offline (1/0)	SO
Total				250	50	100	100	240	80	80	900	10	5	8	19		

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/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject

Mode of Teaching				Mode of Examination				Total Credits	
Theory		Blended		Lab	Theory				Lab
Offline	Online	Offline	Online	Offline	PP	A+O	MCQ		SO
0	0	10	5	8	3	4	11	1	
0%	0%	52.63%	26.31%	42.10%	15.78%	21.05%	57.89%	5.26%	

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Department of Electronics Engineering

Scheme of Examination For batch admitted in Academic Session 2021-2022

B.Tech. (Electronics Engineering/ Electronics and Telecommunication Engineering) II Semester

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	Proficiency in subject /course												
1.	100011	BSC	Engineering Mathematics –I	50	10	20	20	-	-	-	100	3	1	-	4	Offline (4/0)	PP
2.	140211/ 200211	DC	Electronics Devices	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	140212/ 200212	DC	Engineering Materials	50	10	20	20	-	-	-	100	3	1	-	4	Blended (3/1)	PP
4.	100015	HSMC	Energy, Environment, Ecology & Society	50	10	20	20	-	-	-	100	3	-	-	3	Online (0/3)	MCQ
5.	100016	HSMC	Technical Language	50	10	20	20	-	-	-	100	3	-	-	3	Blended (2/1)	PP
6.	100017	HSMC	Language Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline (2/0)	SO
Total				250	50	100	100	120	40	40	700	14	3	4	19		

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/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject

Mode of Teaching				Mode of Examination					Total Credits
Theory		Blended		Lab	Theory			Lab	
Offline	Online	Offline	Online	Offline	PP	A+O	MCQ	SO	
4	3	7	3	4	15	0	3	1	
21.05%	15.78%	36.84%	15.78%	21.05%	78.94%	0%	15.78%	5.26%	

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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B.Tech. (Electronics Engineering) III Semester

Effective for academic session 2021-22 & 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 Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project							
				End Term Evaluation	Proficiency in subject /course												
1.	100025	BSC	Engineering Mathematics-II	50	10	20	20	-	-	-	100	2	1	-	3	Offline (3/0)	PP
2.	140311	DC	Electronics Circuit Design	50	10	20	20	60	20	20	200	2	1	2	4	Blended (3/1)	PP
3.	140318	DC	Network Theory	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
4.	140319	DC	Digital Circuits & Systems	50	10	20	20	60	20	20	200	2	1	2	4	Blended (3/1)	PP
5.	140320	DC	Analog Communication	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	140321	DLC	Hardware lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline(1/0)	SO
7.	140316	DLC	Self-learning/ Presentation*	-	-	-	-	-	40	-	40	-	-	2	1	Online +Mentoring	SO
8.		CLC	Novel Engaging Course	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	140317	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.	1000005	MAC	Project Management & Financing	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.

^{SS}MCQ: Multiple Choice Question

^{SS}AO: Assignment + Oral

^{SS}PP: Pen Paper

^{SS}SO: Submission + Oral

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				Lab	NEC	Theory			Lab	SIP/SLP/ NEC	
Offline	Online	Blended		Offline	Interactive	PP	A+O	MCQ	SO	SO	
		Offline	Online								
3	1	8	4	5	1	17	0	0	1	4	22
13.63%	4.54%	36.36%	18.18%	22.72%	4.54%	77.27%	0%	0%	4.54%	18.18%	

Approved with
Code changes
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B. Tech. (Electronics Engineering) IV Semester

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	Duration 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	Proficiency in subject/course													
1.	100003	BSC	Engineering Mathematics-III	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP	2 Hrs
2.	140416	DC	Digital Communication	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	140417	DC	Linear Control Theory	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
4.	140418	DC	Analog Integrated Circuits	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
5.	140419	DLC	Software Lab Introduction to MATLAB	-	-	-	-	60	20	20	100	-	-	4	2	Offline	SO	-
6.	100004	MC	Cyber Security	50	10	20	20	-	-	-	100	2	-	-	2	Blended	MCQ	1.5 Hrs
7.		CLC	Novel Engaging Course	-	-	-	-	-	50	-	100	-	-	2	1	Interactive	SO	-
Total				250	50	100	100	180	110	60	900	11	3	10	19			
Summer Internship Project-II (Softskills Based) for two weeks duration: Evaluation in V Semester																		
9.	1000001	MAC	Indian Constitution & 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

Mode of Teaching						Mode of Examination						Total Credits
Theory		Lab		NEC		Theory			Lab		NEC	
Offline	Online	Blended		Offline	Interactive	PP	A+O	MCQ	SO	SO		
		Offline	Online									
3	6	6	3	4	1	18	0	2	1	1	22	
13.63%	27.27%	27.27%	13.63%	18.18%	4.54%	81.81%	0%	9.09%	4.54%	4.54%	Credits	

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Scheme of Examination (For the Batch Admitted in the Year 2021-2022)

B.Tech. (Electronics and Telecommunication Engineering) V Semester [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 Sem.		Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini Project							
				End Term Evaluation	Proficiency in subject /course												
1.	200511	DC	Data Science	50	10	20	20	60	20	20	200	3	-	2	4	Offline	MCQ
2.	200512	DC	Microprocessor & Interfacing	50	10	20	20	60	20	20	200	2	1	2	4	Offline	PP
3.	200515	DC	Electromagnetic Fields	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP
4.	200519	DC	Data Communication	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP
5.	200520	DC	Digital Signal Processing	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP
6.	200516	DLC	Minor Project-I	-	-	-	-	60	40	-	100	-	-	4	2	Offline	SO
7.	200517	DLC	Self-learning/ Presentation	-	-	-	-	-	40	-	40	-	-	2	1	Online +Mentoring	SO
8.		CLC	Novel Engaging Course	-	-	-	-	50	0	-	50	-	-	2	1	Interactive	SO
9.	200518	DLC	Summer Internship Project-II (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 Honors 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	Online	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				Introduction to Wireless and Cellular Communications											

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

NAAC Accredited with A++ Grade

Department of Electronics Engineering

Scheme of Evaluation

B. Tech. VI Semester (Electronics & Telecommunication Engineering) (for batch 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	Mode of Exam.	Duration 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.	200619	DC	Mobile Communication & 5G Networks	50	10	20	20	-	-	-	-	-	100	4	-	-	4	Blended	PP	2 Hrs
2.	200616	DC	VLSI Design	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP	2 Hrs
3.		DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	1.5 Hrs
4.		OC	Open Category (OC-1)**	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
5.	200617	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	MCQ	1.5 Hrs
6.	200618	DLC	Minor Project-II	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO	-
7.	200XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Blended	SO	-
Total				200	40	80	80	230	80	40	25	75	850	16	-	10	21	-	-	
8.		MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ	1.5 Hrs
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										

Proficiency in course/subject-includes the weightage towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject. *This course run through SWAYAM/NPTEL/ MOOC platform

*DE-1 (SWAYAM/NPTEL/ MOOC platform)				**Open Category (OC-1)(For students of other branches)			
200665	An Introduction to Information Theory			900116	Embedded Systems		
200663	Fuzzy sets, logic and System & Applications			900117	Intelligent Control		
200662	Digital IC Design						

Hons	Communication & Signal Processing (Track)	Principles of Signals and Systems (H200606)	Communication Networks (H200607)
	VLSI Design (Track)	Analog IC design (H200608)	Integrated Circuits, MOSFETs, OP-Amps and their Applications (H200609)
	Nano Technology (Track)	Surface Engineering Of Nano-materials (H200610)	Physics of Nanoscale Devices (H200611)
Minors	Communication & Signal Processing (Track)	Communication Networks (M200604)	Fundamentals Of MIMO Wireless Communication (M200605)
	Control & Sensor Technology (Track)	Microprocessors and Microcontrollers (M200606)	Network Analysis (M200607)