MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute& NAAC AccreditedInstitute Affiliated to RGPV, Bhopal MP)
Department of Electronics Engineering
Scheme of Examination *For batch admitted in Academic Session 2020-2021*

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,ProficiencyModules,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				Lab	Theory			Lab	
Offline	Online	Blended		Offline	PP	A+O	MCQ	SO	
		Offline	Online						
0	0	10	5	8	3	4	11	1	19
0%	0%	52.63%	26.31%	42.10%	15.78%	21.05%	57.89%	5.26%	

Dr. Laxmi Shrivastava (HOD)

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Department of Electronics Engineering

Scheme of Examination *For batch admitted in Academic Session 2020-2021*

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				Lab	Theory			Lab	
Offline	Online	Blended		Offline	PP	A+O	MCQ	SO	
		Offline	Online						
4	3	7	3	4	15	0	3	1	19
21.05%	15.78%	36.84%	15.78%	21.05%	78.94%	0%	15.78%	5.26%	

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Department of Electronics Engineering

Scheme of Examination *For batch admitted in Academic Session 2020-2021*

B.Tech. (Electronics Engineering/ Electronics and Telecommunication Engineering) III 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	$Proficiencyin subject /course												
1.	100025	BSC	Engineering Mathematics-II	50	10	20	20	-	-	-	100	2	1	-	3	Offline (3/0)	PP
2.	140311/ 200311	DC	Electronics Circuit Design	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	140312/ 200312	DC	Network Theory	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
4.	140313/ 200313	DC	Signals & Systems	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
5.	140314/ 200314	DC	Electronics measurement & Instrumentation	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	140315/ 200315	DLC	Software Lab Introduction to MATLAB	-	-	-	-	60	20	20	100	-	-	2	1	Offline (1/0)	SO
7.	140316/ 200316	DLC	*Self-learning/ Presentation#	-	-	-	-	-	40	-	40	-	-	2	1	Online +Mentoring	SO
8.		CLC	Novel Engaging Course	-	-	-		-	50		50	-	-	2	1	Interactive	SO
9.	140317/ 200317	DLC	Summer Internship Project–I (Institute Level Evaluation	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
Total				**250**	**50**	**100**	**100**	**300**	**140**	**60**	**950**	**10**	**5**	**14**	**22**		
10.	1000001	MAC	Indian Constitution andTraditional 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				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%	Credits %

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Department of Electronics Engineering

Scheme of Examination *For batch admitted in Academic Session 2020-2021*

B.Tech. (Electronics Engineering/ Electronics and Telecommunication 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.
				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 (3/0)	PP
2.	140411/ 200411	DC	Digital Circuits & Systems	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
3.	140412/ 200412	DC	Analog Integrated Circuits	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
4.	140413/ 200413	DC	Analog Communication	50	10	20	20	60	20	20	200	2	1	2	4	Blended (2/1)	PP
5.	140414/ 200414	DC	Communication Networks	50	10	20	20	-	-	-	100	3	-	-	3	Online (0/4)	PP
6.	140415/ 200415	DLC	PCB Design Lab	-	-	-	-	60	20	20	100	-	-	2	1	Offline (0/3)	SO
7.	100004	MC	Cyber Security	50	10	20	20				100	2	-	-	2	Online (0/2)	MCQ
8.		CLC	Novel Engaging Course	-	-	-	-	-	50	-	100	-	-	2	1	Interactive	SO
	Total			**300**	**60**	**120**	**120**	**240**	**130**	**80**	**1100**	**13**	**4**	**10**	**22**		
	Summer Internship Project-II (Softskills Based) for two weeks duration: Evaluation in V Semester																
9.	1000002	MAC	Biology for Engineers	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 %

Dr. Laxmi Shrivastava (HOD)

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)
B.Tech. (Electronics Engineering) V Semester

Effective for 2020-21, 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.	140511	MC	Data Science	50	10	20	20	60	20	20	200	3	0	2	4	Blended(2/1)	MCQ
2.	140512	DC	Microprocessor & Interfacing	50	10	20	20	60	20	20	200	2	1	2	4	Blended(2/1)	PP
3.	140513	DC	Linear Control Theory	50	10	20	20	-	-	-	100	2	1	-	3	Blended(2/1)	PP
4.	140514	DC	Digital Communication	50	10	20	20	60	20	20	200	2	1	2	4	Blended(2/1)	PP
5.	140515	DC	Electromagnetic Fields	50	10	20	20	-	-	-	100	2	1	-	3	Blended(2/1)	PP
6.	140516	DLC	Minor Project-I	-	-	-	-	60	40	-	100	-	-	4	2	Offline(2/0)	SO
7.	140517	DLC	Self-learning/ Presentation*	-	-	-	-	-	40	-	40	-	-	2	1	Online +Mentoring	SO
8.		CLC	Novel Engaging Course	-	-	-	-	50	-	-	50	-	-	2	1	Interactive	SO
9.	140518	DLC	Summer Internship Project–II (Institute Level Evaluation)	-	-	-	-	60	-	-	60	-	-	4	2	Offline	SO
	Total			250	50	100	100	350	140	60	1050	11	4	18	24		
Additional Courses for obtaining Honours/Minor Specialization by desirous students								Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization									
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	GRADE	Online	MCQ
11.	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}AO: Assignment + Oral ^{ss}PP: Pen Paper ^{ss}SO: Submission + Oral

^{ss}MCQ: Multiple Choice Question
*compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

Category	Domain		Subject Names	
Hons	Communication and Signal Processing		Principles and Techniques of Modern Radar Systems	Signal Processing for mm Wave communication for 5G and beyond
	VLSI Design		Hardware modeling using VERILOG	System Design Through VERILOG
Minor	Control & Sensor Technology		Analog Electronic Circuit	Control System
	Communication and Signal Processing		Introduction to Wireless and Cellular Communications	Principles and Techniques of Modern Radar Systems

MITS 4/7/22

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

B. Tech. VI Semester Electronics Engineering

Category Code		Subject Name	Theory Slot				Practical Slot			MOOCs		Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Online, Offline, Blended)	Mode of Exam.
			End Term Evaluation		Continuous Evaluation		End Sem. Exam.	Continuous Evaluation		Assignment	Exam		L	T	P			
			End Sem. Exam.	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment		Lab work & Sessional	Skill Based Mini Project									
140615	DC	Digital Signal Processing	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
140616	DC	VLSI Design	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
140617	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	MCQ
406XX	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	MOOC
00XXX	OC	Open Category (OC-1)	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	MCQ
140618	DLC	Minor Project-II	-	-	-	-	60	40	-	-	-	100	-	-	4	2	Offline	SO
00XXX	CLC	Novel Engaging Course (Informal Learning)	-	-	-	-	50	-	-	-	-	50	-	-	2	1	Interactive	SO
Total			200	40	80	80	290	100	60	25	75	950	15	-	12	21	-	-
000007	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

tional Course for Honors or minor Specialization	Permitted to opt for maximum two additional courses for the award of Honors or Minor specialization

$proficiency in course/subject-includes the weight age towards ability/skill/competence/knowledge level/ expertise attained etc. in that particular course/subject.

$$MCQ: Multiple Choice Question $$AO: Assignment + Oral $$PP: Pen Paper $$SO: Submission + Oral

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

Department Elective-1 (DE-1) (MOOC) 1406XX	Spread Spectrum Communications and Jamming 140661	Digital IC Design 140662	Fuzzy Sets, Logic and Systems & Application 140663	Analysis and Design Principles of Microwave Antennas 140664

07.03.2023

DEAN (ACADEMICS)
MITS
GWALIOR

Open Course-1 (OC-1)	Embedded Systems 900116	Intelligent Control 900117

30

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Scheme of Examination (B.Tech. Electronics Engineering)
B.Tech. VII Semester *[For batches admitted in Academic Session 2020-21 onwards]*

S.N.	Subject Code	Category	Subject Name & Title	Maximum Marks Allotted									MOOCS		Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Online, Offline, Blended)	$^{\$\$}$Mode of Exam.
				Theory Slot				Practical Slot													
				End Term Evaluation		Continuous Evaluation		End Sem.	Continuous Evaluation												
				End Sem.	Proficiency in Subject Course	Mid Sem. Exam	Quiz/ Assignment		Lab work & Sessionals	Skill based mini project	Assignment	Exams			L	T	P			
1.	**1407XX**	DE	DE-2	50	10	20	20	-	-	-				100	3	-	-	**3**	**Blended**	**PP**
2.	**1407XX**	DE	DE -3*	-	-	-	-	-	-	-	25	75		100	3	-	-	**3**	Online	MCQ
3.	1407XX	DE	DE -4*					-	-	-	25	75		100	3	-	-	**3**	Online	MCQ
4.		OC	OC-2	50	10	20	20	-	-	-	-	-		100	3	-	-	3	Blended	PP
6.	**140704**	DLC	**Embedded Systems Design lab**	-	-	-	-	60	20	20	-	-		100	-	-	6	3	Offline	SO
7.	**140702**	DLC	**Summer Internship Project-III**	-	-	-	-	60	-	-	-	-		60	-	-	4	2	Offline	SO
8.	**140703**	DLC	**Creative Problem Solving**	-	-	-	-	25	25	-	-	-		50	-	-	6	3	Offline	SO
			Total	**100**	**20**	**40**	**40**	**145**	**45**	**20**	**50**	**150**		**610**	**12**	**0**	**16**	**20**		
		MAC	**Universal Human Values & professional ethics**	50	10	20	20	-	-	-	-	-		100	2	-	-	**GRADE**	**Online**	**MCQ**

* This course must be run through SWAYAM/NPTEL/ MOOC

$^{\$\$}$**MCQ:** Multiple Choice Question $^{\$\$}$**AO:** Assignment + Oral $^{\$\$}$**PP:** Pen Paper $^{\$\$}$**SO:** Submission + Oral

Department Electives-2 (DE-2) (1407XX)	Satellite and Radar Communication Systems **(140711)**	Antenna and Wave Propagation **(140714)**	Embedded Systems Design **(140715)**
Department Electives-3 (DE-3) (MOOCS) (1407XX)	Digital Image Processing **(140751)**		Microwave Engineering **(140754)**
Department Electives-4 (DE-4) (MOOCS) (1407XX)	Introduction to Wireless Cellular Communication **(140761)**		Fiber Optic Communication Technology **(140762)**
Open Course-2 (OC-2)	Satellite System **(910216)**		Consumer Electronics **(910217)**

Honors	Introduction To Adaptive Signal Processing	VLSI Interconnects
Minors	Design of Photovoltaic Systems	Microwave Engineering