

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Scheme of Examination (B.Tech. Electronics and Telecommunication Engineering)

GROUP A: I Semester [For batches admitted in Academic Session 2018-19 onwards]

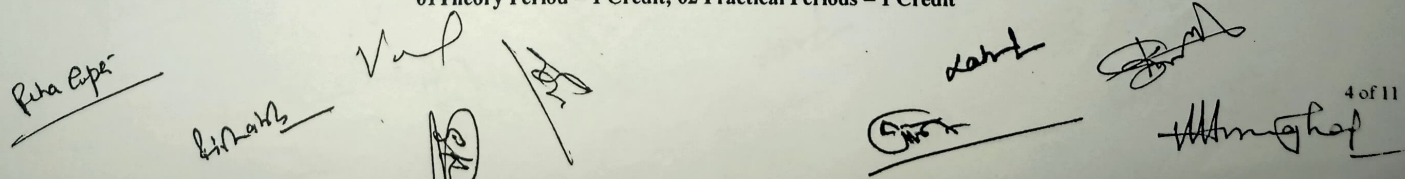
S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	100201	BSC	Engineering Physics (BSC-1)	70	20	10	30	20	150	2	1	2	4
2.	100202	HSMC	Energy, Environment, Ecology & Society (HSMC-1)	70	20	10	-	-	100	3	-	-	3
3.	100203	ESC	Basic Computer Engineering (ESC-1)	70	20	10	30	20	150	3	-	2	4
4.	100204	ESC	Basic Mechanical Engineering(ESC-2)	70	20	10	30	20	150	3	-	2	4
5.	100205	ESC	Basic Civil Engineering & Mechanics(ESC-3)	70	20	10	30	20	150	3	-	2	4
6.	100206	HSMC	Language Lab. & Seminars(HSMC-2)	-	-	-	30	20	50	-	-	4	2
			Total	350	100	50	150	100	750	14	1	12	21

Induction programme of first 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

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

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

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



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Scheme of Examination (B.Tech. Electronics and Telecommunication Engineering)
 GROUP A: II Semester *[For batches admitted in Academic Session 2018-19 onwards]*

S.No	Subject Code	Category	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-2)	70	20	10	30	20	150	3	-	2	4
2.	100102	BSC	Mathematics-I (BSC-3)	70	20	10	-	-	100	3	1	-	4
3.	100103	HSMC	Technical English (HSMC-3)	70	20	10	30	20	150	3	-	2	4
4.	100104	ESC	Basic Electrical & Electronics Engineering(ESC-4)	70	20	10	30	20	150	3	-	2	4
5.	100105	ESC	Engineering Graphics(ESC-5)	70	20	10	30	20	150	2	-	2	3
6.	100106	ESC	Manufacturing Practices(ESC-6)	-	-	-	30	20	50	-	-	2	1
			Total	350	100	50	150	100	750	14	1	10	20

Summer Internship Project -I (Institute Level) (Qualifier): Minimum two-week duration

GROUP A: (Electrical, Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication)
 GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

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Scheme of Examination (B.Tech. Electronics and Telecommunication Engineering)

III Semester [For batches admitted in Academic Session 2018-19 onwards]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work					
								Lab Work & Sessional					
1.	100001	BSC	Mathematics-II (BSC-4)	70	20	10	-	-	100	3	1	-	4
2.	200301	DC	Electronics – I (DC-1)	70	20	10	-	-	100	3	1	2	4
3.	200302	DC	Digital Circuits and Systems (DC-2)	70	20	10	30	20	150	3	-	2	4
4.	200303	DC	Network Theory (DC-3)	70	20	10	30	20	150	3	-	2	4
5.	200304	DC	Signals & Systems (DC-4)	70	20	10	30	20	150	3	1	-	4
6.	200305*	DLC	Software Lab Introduction to MATLAB (DLC-1)	-	-	-	30	20	50	-	-	2	1
7.	200306#	SEMINAR/ SELF STUDY	Self learning/Presentation (SWAYAM/NPTEL/ MOOC)#	-	-	-	-	25	25	-	-	2	1
8.	200307	DLC	Summer Internship Project-I (Institute Level (Evaluation))	-	-	-	25	-	25	-	-	4	2
Total				350	100	50	145	105	750	14	3	14	24
9.	100002 ^S	MC	Biology for Engineers(Audit Course) (MC)	70	20	10	-	-	100	3	-	-	-
NSS/NCC				Qualifier									

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

^S Course will run for Group A/B in III/IV 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 the traditional lab

GROUP A: (Electrical, Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication) & GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

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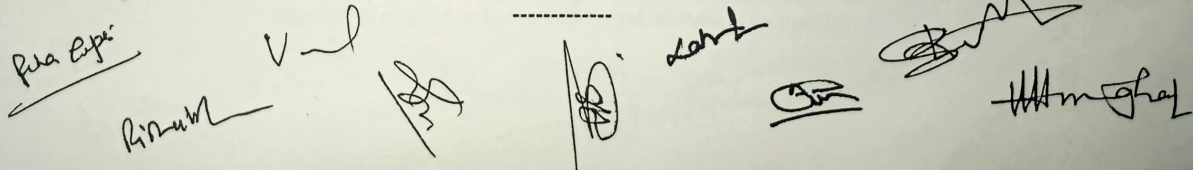
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Scheme of Examination (B.Tech. Electronics and Telecommunication Engineering)

IV Semester **[For batches admitted in Academic Session 2018-19 onwards]**

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work					
								Lab Work & Sessional					
1.	100003	BSC	Mathematics- III (BSC-5)	70	20	10	-	-	100	2	2	-	4
2.	200401	DC	Electronics II (DC-5)	70	20	10	30	20	150	2	1	2	4
3.	200402	DC	Analog Communication (DC-6)	70	20	10	30	20	150	2	1	2	4
4.	200403	DC	Communication Networks (DC-7)	70	20	10	-	-	100	3	1	-	4
5.	200404	DC	Stochastic Processes in Communication (DC-8)	70	20	10	-	-	100	3	1	-	4
6.	100004	MC	Cyber Security (MC)	70	20	10	-	-	100	2	1	-	3
7.	200405	DLC	Hardware Lab PCB Design Lab (DLC-2)	-	-	-	30	20	50	-	-	6	3
Total				420	120	60	90	60	750	14	7	10	26
NSS/NCC				Qualifier									
Summer Internship Project-II (Soft Skills Based) for two weeks duration: Evaluation in V Semester													

*Virtual Lab to be conducted along with the traditional lab



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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Scheme of Examination B.Tech. V Semester

[Paper should be submitted in Academic Session 2018-19 onwards] 2019-2023 Batch

Sl. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/Assignment	End Sem.	Lab work & Sessional					
	100005	HSMC	Ethics, Economics, Entrepreneurship & Management (HSMC-4)	70	20	10	-	-	100	3	-	-	3
	200502	DC/BSC	Electromagnetic Theory	70	20	10	-	-	100	3	1	-	4
	200503	DC	Microprocessor & Interfacing	70	20	10	30	20	150	2	1	2	4
	200504	DC	Linear Control Theory	70	20	10	30	20	150	2	1	2	4
	200505	DC	Digital Communication	70	20	10	30	20	150	2	1	2	4
	200506	DLC	Minor Project-I**	-	-	-	30	20	50	-	-	2	1
	200507	DLC	Summer Internship Project-II (Evaluation)	-	-	-	25	-	25	-	-	6	3
	200508	SEMINAR SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/MOOC)	-	-	-	-	25	25	-	-	2	1
			Total	350	100	50	140	110	750	12	4	16	24
9.	100006	MC	Indian Constitution & Traditional Knowledge (Audit Course) (MC)	70	20	10	-	-	100	3	-	-	-

Department level activity/workshop/awareness programme to be conducted; certificate of compliance to be submitted by HoD to the Exam Controller through Dean Academics

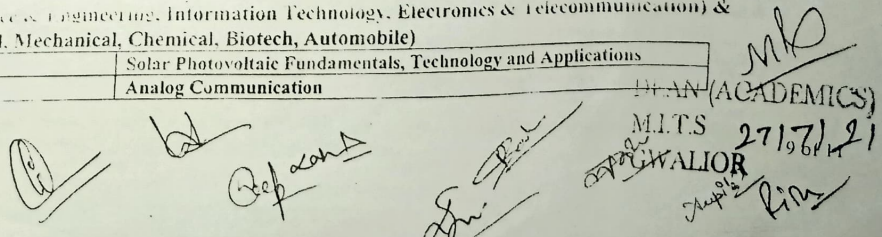
Additional Courses for obtaining Honours or minor Specialization in deserving students

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

Group A/B programmes will offer this course in VVI Semester respectively.
 Group A/B programmes will offer this course in VVI Semester respectively. (This is a non-credit course and it is optional to appear & pass in the end semester examination. If necessary, separate mark sheet will be issued to those who will qualify)
 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, assignments and presentation

GROUP A: (Electrical, Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication) &
 GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

Honors	Cloud Computing	Solid State Physics	Solar Photovoltaic Fundamentals, Technology and Applications
Minors	Semiconductor Devices and Circuits	Digital Circuits	Analog Communication



 DEAN (ACADEMICS)
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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 B.Tech. VI Semester

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

S. No	Subject Code	Category	Subject Name	Maximum Marks Allotted					MOOCS		Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot		Assignm ents	Exam		L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional							
1.	200601	DC	Microprocessors & Dc/Dc Interfacing (DC-13) <i>Comma</i>	70	20	10	30	20	-	-	150	2	1	2	4
2.	200602	DC	Digital Signal Processing (DC-14)	70	20	10	-	-	-	-	100	3	1	-	4
3.	2006XX	DE	DE-1*	70	20	10	-	-	-	-	100	4	-	-	4
4.	2006XX	DE	DE-2*	-	-	-	-	-	25	75	100	4	-	-	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.	200606	DLC	Minor Project-II (DLC-5)	-	-	-	50	50	-	-	100	-	-	4	2
Total				350	100	50	80	70	25	75	750	18	3	6	24
Summer Internship-III (On Job Training) for Four weeks duration: Evaluation in VII Semester															
Additional Courses for obtaining Honours or minor Specialization by desirous students			Permitted to opt for <u>maximum two additional courses</u> for the award of Honours or Minor specialization												

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

Department Electives-1 (DE-1) 2006XX	Optical Communication 200611	Antennas and Wave Propagation 200612	Telecom Switching and Networks 200613
Department Electives-2 (DE-2) (MOOC) 2006XX	Spread Spectrum Communications and Jamming 200651	Digital IC Design 200652	Fuzzy Sets, Logic and Systems & Application 200653

Open Course-1 (OC-1)	Intelligent Control 900104	Embedded Systems 900105
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Honors	Advanced Power Electronics & Control	Integrated Circuits, MOSFETs, Op-Amps and their Application	High Power multilevel converter
Minors	Integrated Circuits, MOSFETs, Op-Amps and their Application	High Power multilevel converter	

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Effective for academic session 2019-2023

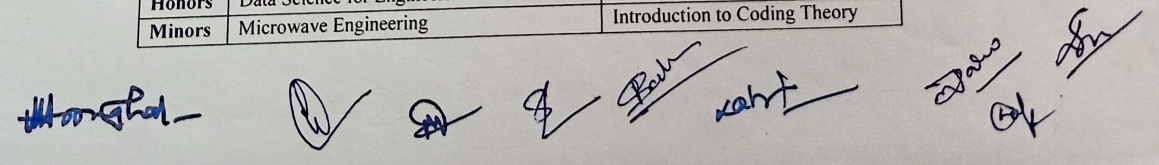
S.N.	Subject Code	Category	Subject Name & Title	Maximum Marks Allotted					MOOCS		Total Marks	Contact Hours per week			Total Credits	Mode of Teaching (Online, Offline, Blended)	Mode of Exam
				Theory Slot			Practical Slot		Assignment	Exams		L	T	P			
				End Sem.	Mid Sem. Exam	Quiz/Assignment	End Sem.	Term Work Lab Work & Sessional									
1.	2007XX	DE	DE-3	70	20	10	-	-	-	-	100	3	-	-	3	Blended (2/1)	PP
2.	2007XX	DE	DE -4*	-	-	-	-	-	25	75	100	2	-	-	2	Online	MCQ
3.		OC	OC -2	70	20	10	-	-	-	-	100	2	1	-	3	Blended (2/1)	PP
4.		OC	OC-3	70	20	10	-	-	-	-	100	3	-	-	3	Blended (2/1)	PP
5.	100008	MC	Intellectual Property Rights (IPR) (MC)	70	20	10	-	-	-	-	100	-	-	-	2	Offline	SO
6.	200701	DLC	VLSI Lab (DLC-6)	-	-	-	50	50	-	-	100	-	-	4	2	Offline	SO
7.	200702	DLC	Summer Internship Project-III (DLC-7) (04 weeks)	-	-	-	50	50	-	-	100	-	-	4	2	Offline	SO
8.	200703	DLC	Creative Problem Solving (DLC-8)	-	-	-	25	25	-	-	50	-	-	2	1	Offline	SO
Total				280	80	40	125	125	25	75	750	19	1	10	18		

Additional Courses for obtaining Honours or minor Specialization by desirous students

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

Department Electives-1 (DE-3) (20071X)	Satellite and Radar Communication Systems 200711	VLSI Design 200712	Microwave Engineering 200713
Department Electives-2 (DE-4) (MOOCS) (20075X)	Digital Image Processing 200751	Introduction to Wireless Cellular Communication 200752	
Open Course-1 (OC-2)	Satellite System (900206)	Consumer Electronics (900207)	
Open Course-1 (OC-3)	MEMS & Mechatronics (900218)	Multimedia Communication (900219)	
Honors	Data Science for Engineers	Design of Photovoltaic Systems	
Minors	Microwave Engineering	Introduction to Coding Theory	

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GWALIOR



Scheme of Examination B.Tech. VIII Semester Electronics & Telecommunication Engineering

[For batches admitted in Academic Session 2019-20 onwards]

Subject Code	Category	Subject Name & Title	Maximum Marks Allotted						MOOCS		Total Marks	Contact Hours per week			Total Credits	
			Theory Slot			Practical Slot			Assignment	Exams		L	T	P		
			End Sem.	Mid Sem. Exam	Quiz/Assignment	End Sem.	Term Work	Lab Work & Sessional								
1.	2008XX	DE	Departmental Elective-5*			-	-	-	-	25	75	100	4	-	-	4
2.	9006XX	OC	Open Course -4			-	-	-	-	25	75	100	2	-	-	2
3.	200804	DLC	Internship/Project (DLC-9)			-	-	-	250	150	-	400	-	-	12	6
4.	200805		Professional Development [#]			-	-	-	-	50	-	50	-	-	2	1
Total			-	-	-	250	200	-	-	50	150	650	6	-	14	13

Additional Courses for obtaining Honours or minor Specialization by desirous students

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

* All of these courses will run through SWAYAM/NPTEL/ MOOC

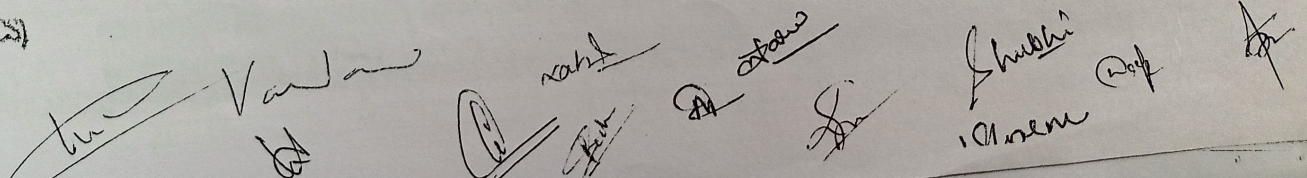
[#] Evaluation will be based on participation/laurels brought by the students to the institution in national/state level technical and other events during the complete tenure of the UG program (participation in professional chapter activities, club activities, cultural events, sports, personality development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

List of Des and Ocs:

Department Electives-1 (DE-5) (2008XX)	Power Management Integrated Circuits (200853)	Fundamental of Power Electronics (200854)	Biomedical Signal Processing (200855)	Analysis and Design Principles of Microwave Antennas (200856)
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Open Course-4 (OC-4)	Linear Dynamical Systems (900601)	Sensors and Actuators (900602)
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