(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		Catego	Subject Name		Max	imum Marks	Allotted		Total	Contac	et Hours p	er week	Total
	Code	ry	,	4	Theory S	Slot	Prac	tical Slot	Marks				Credits
			-	End Sem.	Mid Sem Exam.	Quiz/ Assignme nt	End Sem.	Lab work & Sessional		L	T	P	
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
5.	100206	HSMC	Language Lab. & Seminars(HSMC-2)	- 1	-	-	30	20	50	-	4-17	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: (Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication)

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

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

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

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		Maxi	mum Marks A	llotted		Total	Conto	04 YY		
					Theory SI	ot		tical Slot	Marks	Conta	ct Hours	er week	Total
				End Sem.	Mid Sem.	Quiz/ Assignme	End Sem.	Lab work &	Marks	L	T	P	Credits
1.	100101	BSC	Engineering	70		nt		Sessional				1 3 3 3	1.50
_			Chemistry (BSC-2)	70	20	10	30	20	150	3	-	2	4
2.	100102	BSC	Mathematics-I	70	20	10							4
3.	100102	7707	(BSC-3)	, ,	20	10	-	- 1	100	3	1	-	4
٥.	100103	HSMC	Technical English	70	20	10	30	20			- 19 19 19		
4.	100104	ESC	(HSMC-3)					20	150	3		2	4
	100104	ESC	Basic Electrical & Electronics	70	20	10	30	20	150	3	-	2	4
5.	100105	ESC	Engineering(ESC-4) Engineering			1 1		1					
		250	Graphics(ESC-5)	70	20	10	30	20	150	2			
6.	100106	ESC	Manufacturing	-						-		2	3
-			Practices(ESC-6)		-	- 1	30	20	50	-		2	-
			Total	350	100	50	1.50					2	1
			Comp			1	150	100	750	14	1	10	20.
			Summer	Internship	Project -I	(Institute Lev	el) (Qual	ifier): Minim	ım tıva				20.

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

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

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

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

S.No.	Subject Code	Category	Subject Name		. 1	Maximum Mark			Total Marks		tact l	Hours ek	Total Credits
	CHARLE STATE				Theory	Slot	Pı	ractical Slot					
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem	Term work		L	T	P	
	100001				Exam.			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	23	1	2.	
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	-	-		
5.	200304	DC	Signals& Systems (DC-4)	70	20	10	30	20		3	-	2	4
6.	200305*	DLC	Software Lab Introduction to MATLAB (DLC-1)	-	-	-	30	20	50	3 .	-	2	1
		SEMINAR/ SELF STUDY	Self learning/Presentation (SWAYAM/NPTEL/ MOOC)#	- ,	-	-	-	25	25	-	-	2	1
8.	200307	DLC	Summer Internship Project-I (Institute Level (Evaluation)	-	-	-	25	- 1	25			4	2
			Total	350	100	50	145	105	750	144	2	14	.24
9.	100002 <sup>s</sup>	MC	Biology for Engineers(Audit Course) (MC)	70	20	10	-	-	100	3	3	-	-
	# =		NSS/NCC					Qualifier					10 11/11

"Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation. S Course will run for GroupA/B in III/IV semester respectively (This is a non-credit course and it is optional to appear & pass in the end semester examination.

\* Virtual Lab to be conducted along with the traditional lab

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

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

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

IV Semester | For batches admitted in Academic Session 2018-19 onwards |

	S. No	1	Category	Subject Name			Maximum Ma	rks Allotte	ed .	Total	Cor	tact H	ours	Total
	1	. Cour				Theory	Slot	Pra	actical Slot	Marks	F	er wee	k	Credits
					End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Term work		L	T	P	
						Exam.			Lab Work & Sessional					
	1.	100003	BSC	Mathematics- III (BSC-5)	70	20	10	-	-	100	2	2	-	4
2	2.	200401	DC	Electronics II (DC-5)	70	20	10	30	20	150	2	. 1	2.	1
3	3.	200402	DC	Analog Communication (DC-6)	70	20	10	30	20	150	2	1	2	4
1	4.	200403	DC	Communication Networks (DC-7)	70	20	10	-		100	3.	1.	-	4
	5.	200404		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		Hardware Lab PCB Design Lab (DLC-2)	-	-	-	30	. 20	50	-		6	3
				Total	420	120	60	90	60	750	14	7	10	26
			r	NSS/NCC				The same	Qualifier					
				Summer Interns	ship Pro	ject-II (Soi	ft Skills Based) i	for two we	eks duration: Eval	uation in V	Semest	er		

\*Virtual Lab to be conducted along with the traditional lab

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HONOURS

1) Cloud computing 2) solid state Phylics

### MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

Upower electronta

Minor:

2) Digital circuit

thatog communication

3) Solar photovoltaic fundamersabScheme of Examination (B.Tech. Electronics and Telecommunication Engineering)
technology & application V Semester For batches admitted in Academic Session 2018-19 onwards

S.	Subject	Category	Subject Name		Maxi	mum Marks	Allotted		Total	Contact	Hours pe	r week	Total
No.	Code	ominger,			Theory S	lot	Pra	ctical Slot	Marks				Credits
1.0.				End Sem.	Mid Sem Exam.	Quiz/ Assisgnm ent	End Sem.	Lab work & Sessional		L	T	P	
1.	100005*	HSMC	Ethics, Economics, Entrepreneurship& Management (HSMC-4)	70	20	10	•		100	3		-	. 3
2.	200501	DC	Electromagnetic Theory (DC-09)	70	20	10	-	-	100	3	1 ;	-	4
3.	200502	DC	Microprocessor & Interfacing	70	20	10	30	20	150	2	1	2	4
4.	2005024	DC	Linear Control Theory (DC-11)	70	20	10	30	20	150	2	1.	2	4
5.	2005045	DC	Digital Communication (DC-12)	70	20	10	30	20	150	2	1,	2	4
6.	20050	DLC	Minor Project-I** (DLC-3)	-	-	-	30	20	50	-	-	2	1
7.	200509	DLC	Summer Internship Project-II (Evaluation) (DLC-4)	-	-	-	25	•	25	•	-	6	3
8.		SEMINAR/ SELF STUDY	Self-learning/Presentation (SWAYAM/NPTEL/ MOOC)"	-	-			25	25	-		2.	1
			Total	350	100	50	145	105	750	12	4	16	24
9.	100006 <sup>S</sup>	MC	Indian Constitution & Traditional	70	20	10	-	-	100	3		-	-
			Knowledge (Audit Course) (MC)					vareness prog to the Exam C					
lonours		for obtaining Specialization	Permitted to opt for	maximu	ım two ado	litional cou	rses for	the award of	f Honours (	or Minor	specializ	ation	

Group A/B programmes will offer this course in V/VI Semester respectively.

\* The minor project-I may be evaluated by an internal committee for awarding sessional marks.

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S Group A/B programmes will offer this course in V/VI 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)

<sup>&</sup>quot;Compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation GROUP A: (Electronics, Computer Science & Engineering, Information Technology, Electronics & Telecommunication) & GROUP B: (Civil, Mechanical, Chemical, Biotech, Automobile)

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# Scheme of Examination B.Tech. VI Semester

S.	Subject	Category	Subject Nan	1e			imum Marks A		41 - 1 Cl-4	MOC	OCS	Tota		tact H er wee		Total Credits
No	Code				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional	Assignm ents	Exam	Mar ks	L	T	P	Credito
1.	200601	DC	Microprocessors &	& Doutq 3) Comm	70	20	10	30	20	-		150	2	1	2	4
2.	200602	DC	Digital Signal Pro (DC-14)	cessing	70	20	10	-	-		-	100	3	1	-	4
3.	2006XX	DE	DE-1*		70	20	10	-	- 8	-	-	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 Managen	nent .	70	20	10	-	- 1	-	- ,	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
					Sun	ımer Inter	nship-III (On J	ob Train	ing) for Fou	r weeks dura	ation: Eva	luation	in VII S	emest	er	
obta mino	itional Cour ining Honou or Specializa rous student	irs or ition by			Permitt	ed to opt f	or <u>maxim<b>um tv</b></u>	vo additi	onal courses	for the awar	d of Hono	urs or M	Ainor s <sub>l</sub>	pecializ	ation	

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

Department Electives-1 (DE-1)	Optical Communication	Antennas and Wave	Telecom Switching and Networks
2006XX	200611	Propagation 200612	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

Hon	ors	Advanced Power Electronics & Control	Integrated Circuits, MC	OSFETs, Op-Amps and their Application	High Power multilevel converter
Mine	ors	Integrated Circuits, MOSFETs, Op-Amps	and their Application	High Power multilevel converter	

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Constitute Affiliated to RGPV Bhopal)

Scheme of Evamination B. Tech. VII Semester

Code		Subject Name & Title	End	Theor	1		ed actical Slot	. 1000	.5	Total Viarks		ont		To Cre
			Semi.	Mid Sem. Exam	Quiz/ Assignment	End Sem.	Vork Work	Assignment	F.xams			₩€€		0.16
2007XX	Di	DF-3					Lab Work & Sessional				L	T	P	
2(M) XX	Di	DE 4*	70	20	10	-	-	-	- 1	100	3	-		3
-	()(	06 -2	- 70	-	-	-	-	25	75	100	2	-	-	
	OC.	OC-3	70	20	10	-			-	100	2	1	-	
160008	MC	Intellectual Property Rights	70	20	10	-			-	100	3 2	-		2
2000 to 1	1,11	VLSI Lab		_		50	50							
2047-02	D. C	Summer Internship Project-III	-	-	-	50	50	-	-	100	-		4	2
200703	DLr	Creative Problem Solving		-	-	25	25	-	- 1	50	-	-	2	1
- 12 1	ourse for obtain	Total	280	80	40	125	125	25	75	750	12	1		18

ses for the award of Honours or Minor specialization

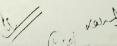
3.02	The second of th			
	Department Flection 3 (DE-3)	System 200711	VLSI Design	Microwave Engineering 200713
	Department Electroes-4 (DE-4) (MOOK S. (2007XX)	Digital Image Processing 200751	Introduction to Wireless Cellular Communication 200752	Milimeter wave Technology 200753
	Open Course-3 (OC-3)	at this syst	tem (909206)	Consumer Flectronics (90020"; Multimedia Communication (900219)

Homers Vist electron. Device of cont Missors Michigane Ing neering

Data Science for Engineers mage Signal Processing

Design of photovoltaic systems Control Engineering







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### Scheme of Examination B. Tech. VIII Semester

S.N.	Subject	Category	Subject Name &		Ma	in Academ ximum Marks	s Allotte	ed	MOOO		Total	C	onta	ct	Total
	Code		Title		Theory			ictical Slot			Marks		urs		Credits
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Term Work	Assignment	Exams			week		
					Exam	rissignment	Jem.	Lab Work & Sessional				L	T	P	
1.	2008XX	DE	Departmental Elective-5*	-		-	-	-	25	75	100	4	-	-	4
2.	2008XX	DE	Departmental Elective -6*	-	-	-	-	-	25	75	100	3	-	-	3
3.	9006XX	OC	Open Course -4	-	-	-	-	_	25	75	100	2			2
5.	200804	DLC	Internship/Project (DLC-9)	-		-	250	150	-	-	400	-	-	6	3
6.	200805		Professional Development#	-		-	-	50	-	-	50	-	-	2	1
		carron for abta	Total	-	-	-	250	200	125	225	750	09	-	08	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

#### List of DEs and OCs:

Department Electives-1 (DE-5) (2008XX)	Fundamental of power electronics (200854)	Biomedical Signal Processing (200855)	Power Management Integrated Circuits (200853)
Department Electives-1 (DE-6) (2008XX)	Design and Analysis of VLSI	An Introduction to	Fundamentals of MIMO Wireless
	Subsystems (200861)	Information Theory (200862)	Communication (200863)

Open Course-4 (OC-4)

Linear Dynamical Systems (900601)

Sensors and Actuators (900602)

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<sup>\*</sup>All of these courses will run through SWAYAM/NPTEL/ MOOC

<sup>&</sup>quot;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)