(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 2021-2022

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

						Maximum	Marks Allo	tted				C	onta	ct			
~	~ • •	<i>a</i> .			Theory S	Slot			Practical Slo	t		Ho	ours p week	per		Mode of	
S.	Subject	Categor	Subject Name	End	l Sem.					Skill	Total				Total	Teaching	Mode of
N0.	Code	y Code		End Term Evaluation	<pre>\$ Proficiency in subject /course</pre>	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Based Mini Project	Marks	L	Т	Р	Credits	(Offline/ Online)	Exam.
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)	РР
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 Teach	ing			Mode of E	xamination		
	Т	heory	Lab Theory Blended Offline PP A+O MCO					Lab	Total Credits
Offino	Online	Bler	nded	Offino	DD	4.0	MCO	50	
Onne	Online	Offline	Online	Onne	rr	A+O	MCQ	50	
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)

(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 2021-2022

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

					1	Maximum	Marks Allo	tted				Cont	tact H	Iours			
					Theory S	lot			Practical Slo	t		р	er we	ek		Mode of	
S No	Subject	Category	Subject Name	End	Sem.	Mid			Lah Wark	Skill	Total				Total	Teaching	Mode of
5.110.	Code	Code	Subject Mane	End Term Evaluation	Proficiency in subject /course	Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Based Mini Project	Marks	L	Т	Р	Credits	(Offline/ Online)	Exam.
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.

⁸Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject

]	Mode of Teach	ing			Mode of E	xamination		
	Т	heory		Lab	ne PP A+O MC			Lab	Total Credits
Offino	Online	Bler	nded	Offine	DD	A 10	MCO	50	
Onnie	Omme	Offline	Online	Onnie	rr	A+O	MCQ	50	
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%	

Dr. Laxmi Shrivastava (HOD)

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

B.Tech. (Electronics Engineering) III Semester

Effective for academic session 2021-22 & 2022-23

S.	Subject	Category	Subject Name			Maximum	Marks Allot	ted				Con	tact H	ours			
No.	Code	Code	,		Theory S	lot			Practical SI	lot		p	er wee	k		Mode of	Mode
				End	Sem.	Mid	Quiz/	End	Lab	Skill	Total	L	Т	Р	Total	Teaching	of
				End Term Evaluation	⁵ Proficiencyin subject /course	Sem. Exam.	Assignment	Sem	Work & Sessional	Based Mini Project	Marks		44		Credits	(Offline/ Online)	Exam.
١.	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	(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	- 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.	2	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	Evaluation)	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.

SSPP: Pen Paper 55SO: Submission + Oral ssAO: Assignment + Oral ^{SS}MCO: Multiple Choice Question

Inst

compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

and when			Mode	of Teaching	,				Mode of Exar	nination		
Appro charles		T	heory	or reacting	Lab	NEC		Theory		Lab	SIP/ SLP/ NEC	Lotal Course
(de)		-	Bler	nded	Offling	Interactive	рр	A+O	мсо	so	SO	your creats
MACINES	Offline	Online	Offline	Online	Onnie	Interactive						
A BATTENIC	3	1	8	4	5	1	17	0	0	1	4	22
DEADSMAP	13.63%	4.54%	36.36%	18.18%	22.72%	4.54%	77.27%	0%	0%	4.54%	18.18%	
MLTS GWALIOR	h		Q	be	V~	Jon ((Sr)	elimite	Shulo	hi to	

				•	B	. Tech	. (Electro	onics l	Ingin	eerm	1g) I V	Semes	ster	Conto		1			T
	S.	Subject	Categ	Subject Name		TL	Maximum	Marks Al	lotted P	ractical	Slot	-	н	ours	per				
	No	. Code	ory Code		End End Term Evaluati	d Sem. ³ Profic ency i subjec /course	Mid ci Sem. n Exam. ct	Quiz/ Assignm ent	End Sem	Lab Wor k & Sessi onal	Skill Based Mini Projec (Total Marks	L	T	P	Total Credit s	Mode of Teaching (Offline/ Online)	Mode of Exam	Durat n of Exam
		100003	BSC	Engineering	on 50	10	20	20	-	-	-	100	2	1	-	3	Offline	РР	2 Hrs
	1.	140416	DC	Mathematics-III Digital	50	10	20	20	60	20	20	200	2	1	2	4	Blended	РР	2 Hrs
	3.	140417	DC	Communication Linear Control	50	10	20	20	-	-		100	3	-	-	3	Blended	PP	2 Hrs
	4.	140418	DC	Analog Integrated	50	. 10	20	20	60	20	20	200	2	1	2	4	Blended	рр	2 Hrs
	5.	140419	DLC	Software Lab Introduction to	-	-	-	-	60	20	20	100	-	-	4	2	Offline	SO	-
	6.	100004	МС	Cyber Security	50	10	20	20				100	2	-	-	2	Blended	MCQ	1.5 Hr
	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 In	ternship P	roject-II	(Softskills Ba	sed) for t	wo week	s durat	ion: Eval	ation in	V Sei	neste	r				
	9.	100000 1	МАС	Indian Constitution & Traditional Knowledge	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	мсq	
			Proficier	icy in course/subject - in-	cludes the w	eightage tov	vards ability ski	ll competen	ce/knowle	dge level	/expertise a	ttained /atte	ndano	e etc. i	n that	particular	course subject		
	ſ	2		Mode of Theory	of Teaching	Lab	NEC			N	1ode of Ex	amination							
NM 03	, V'	ſ	Offline	Online Offline	led Online	Offline	Interactive	PP	A+O	eory	MCQ	La) D		NE SC))	Credits		\sim
AN (ACAD	EMIC	S)	3 13 63%	6 6 27.27% 27.27%	3, 13.63%	4 18.18%	1 4.54%	18 81.81%	0 0%		2 9.09%	4.54	%		1 4.54	1%	22 Credits "a		, G
LT.S VALIOB	Depa MITS	artment o S Gwalic	f Electro	Dnics Engineering	poht			So	N-wt	: G	A CI	.) . –		ς	W	bhi	1.Sharm		15

B. Tech. (Electronics Engineering) IV Semester

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- ALARAT A

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.	Subject	Category	Subject Name		Ι	Maximum	Marks Allo	tted				C	onta	ct			
No.	Code	Code			Theory	Slot			Practical S	lot		Но	urs	per		Mode of	
				Fnd	Som	Mid	Ouiz/	Fnd	Lah	Skill	Total	T	weel T	ζ D	Total	Teaching	Mode
				End Term Evaluation	^{\$} Proficiency in subject	Sem. Exam.	Assignment	Sem	Work & Sessional	Based Mini Project	Marks	L	1	1	Credits	(Offline/ Online)	Exam.
1.	200511	DC	Data Science	50	10	20	20	60	20	20	200	3	-	2	4	Offline	MCO
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	00 - 4 2 Offline 00 - - 4 2 Offline				SO	
7.	200517	DLC	Self-learning/ Presentation [,]	-	-	-	-	-	40	-	40	- - 4 2 Offline - - 2 1 Online +Mentoring				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		
	Addition	al Courses for	r obtaining Honors/Mino	r Specialization	by desirous stud	ents	Permitte	ed to opt	for <u>maximum t</u>	two additiona	l courses for	the a	ward	of Ho	nors or Mino	r specialization	
		#1	compulsory registration	on for one onli	ine course using	SWAYAN	M/NPTEL/ M	00C, e	valuation thro	ough attenda	ance, assig	nment	ts an	d pres	sentation		
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	- 100 2 Grade Online MCQ						
	Honors	1. Priz Sys 2. Sto	nciples and Techniqu stems chastic Control & Co	es of Modern	n Radar	1. H 2. A	Hardware mo Analog VLSI	deling ι Design	ising Verilog	;	1. 2.	Nar Mic	10-T croel	echno ectroi	ology, Scier nics: Device	nce and Applicates to Circuits	tion
	Minors		Control S	ystem		Introduc	ction to Wirel	ess and	Cellular Cor	nmunicatio	ns						

(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.	Subject	Category	Subject Name				Maximu	m Marks	Allotted				Total	(Conta	ct	Total	Mode of	^{\$\$} Mode	Duration
No.	Code	Code			Theo	ory Slot			Practical Slo	ot	MOO	Cs	Marks	Н	ours j week	per	Credits	Teaching	of Exam	of Exam
				Enc Eva	l Term luation	Continue	ous Evaluation	End Sem. Exam.	Contin Evalua	uous ation	Assignment	Exam	-	L	T	P			Linuin	
				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	-
		То	otal	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
				Sı	ummer Intern	ship-III (C	n Job Training) for Fou	r weeks dura	tion: Eva	luation in VII S	emester								
	Additio	onal Cours	e for Honours or Minor Spe	cialization			Permitt	ed to opt	for maximun	1 two add	itional courses f	or the awa	rd of Honour	s or M	linor	specia	lization			
	\$prof	ficiency in co	ourse/subject-includes the weigh	ntage towards	s ability/skill/con	mpetence/kr	owledge level/ exp	pertise atta	ined etc. in that	particulai	r course/subject. *	This course	run through SV	VAYA	M/NP	FEL/ N	100C plat	form		
			*DE-1 (SWAYAM/	NPTEL/ MO	OOC platform	1)			000117		**Ope	n Category	(OC-1)(For	studer	nts of	other	branches)		
200	665		An Introduction to	Information	Theory				900116	Em	ibedded Systems									
200	<u>662</u>		Fuzzy sets, logic at Digital IC Design	nd System &	Applications				900117	Inte	elligent Control									
200	002		Digital IC Design																	
	Hons	Comm	nunication & Signal Process	sing (Track	ing (Track) Principles of Signals and Systems (H200606) Communication Networks (H200607)															
		VLSI	Design (Track)	0.	•	Analog	g IC design (H20	0608)	. /		Integrated C	Circuits, MC	SFETs, OP-A	mps a	nd the	eir Apr	olications	(H200609)		
		Nano	Technology (Track)			Surfac	e Engineering Of	f Nano-ma	terials (H2000	510)	Physics of N	Vanoscale D	evices (H200	611)		11		. /		
	Minors	6 Com	nunication & Signal Process	sing (Track)	Commu	nication Networ	ks (M2006	504)		Fundamenta	ls Of MIM	O Wireless Co	ommur	nicatio	on (M2	00605)			
		Contr	ol & Sensor Technology (T	rack)		Microp	cocessors and Mi	crocontrol	llers (M20060	6)	Network An	alysis (M2	00607)							

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

Scheme of Examination (B.Tech. Electronics & Telecommunication Engineering) B.Tech. VII Semester *[For batches admitted in Academic Session 2021-22 onwards]*

S.	Subject	Cate	Subject Name &			Maximu	ım Marks	Allotted	l		MO	OCS	Total	C	onta	ct	Total		
	Code	gory	Title		Theor	ry Slot		Practi	al Slot				Mark	H	ours j wool	per	Credits	Mode of	
				Enc Eva	l Term luation	Conti Evalu	inuous uation	End Sem.	Cont Eval	inuous uation					week			Teaching (Online,	^{\$\$} Mode of
				End	Profici			1	Lab	Skill	Assi	Exa						Offline, Plandad)	Exam.
				Sem.	ency in Subject Course	Mid Sem. Exam	Quiz/ Assig nment		& Session als	based mini project	gn me nt	ms		L	Т	Р		Bienueu)	
1.	2007XX	DE	DE-2	50	10	20	20	-	-	-			100	3	-	-	3	Blended	PP
2.	2007XX	DE	DE -3*	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ
3.	2007XX	DE	DE -4*					-	-	-	25	75	100	3	-	-	3	Online	MCQ
4.		OC	OC-2	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP
6.	200704	DLC	Embedded Systems Design lab	-	-	-	-	60	20	20	-	-	100	-	-	6	3	Offline	SO
7.	200702	DLC	SEP/Industry Internship/ Research Internship/ Innovation & amp; Start-up	-	-	-	-	60	-	-	-	-	60	-	-	4	2	Offline	SO
8.	200705	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	Blended	MCQ

* This course must be run through SWAYAM/NPTEL/ MOOC ^{\$\$\$}MCQ: Multiple Choice Question ^{\$\$5}AO: Assignment + Oral ^{\$\$\$}PP: Pen Paper ^{\$\$\$}SO: Submission + Oral

Department Electives-2 (DE-2) (2007XX)	Satellite and Radar Communication Systems (200711)	Telecommunication Switching and Network (200716)	Embedded Systems Design (200715)
Department Electives-3 (DE-3) (MOOCS) (2007XX)	Microwave Engineering (200754)	An Introduction to Coding Theory (200755)	Fundamentals of Nano and Quantum Photonics (200756)

Department of Electronics Engineering May 2024

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (Deemed to be University) (Declared Under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

Department Electives-4 (DE-4) (MO (2007XX)	OCS)	Fiber Optic Communication Technology (200762)	Pattern	Recognition and Applications (200763)	Simul	ation of Communication Systems using MATLAB (200764)
Open Course-2 (OC-2)		Mobile Communication and 5G Standard (910218)		Cons	sumer (910)	Electronics 217)
	Honors	Introduction To Adaptive Signal Processing		VLSI Interconnects		
	Minors	Design of Photovoltaic Systems		Microwave Engineering		

Department of Electronics	Engineering
May 2024	

(Deemed University) (Declared Under Distinct Category by Ministry of Education, Government of India) <u>NAAC Accredited with A++ Grade</u>

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

For ourches admined in Academic Session 2021-22 onwards															
S.N.	Subject	Category	Subject Name & Title	Maximum Marks Allotted				MOOCS		Total	Contact			Total	
	Code			Theory Slot		Practical Slot]		Marks	Hours per			Credits	
				End	Mid	Quiz/	End Sem.	Term Work	Assignment	Exams		week			
				Sem.	Sem. Exam	Assignment		Lab Work & Sessional				L	Т	Р	
1.	2008XX	DE	Departmental Elective- 5*	-	-	-	-	-	25	75	100	4	-	-	4
2.	9006XX	OC	Open Course -4	-	-	-	-	-	25	75	100	3	-	-	3
3.	200804	DLC	Internship/Project (DLC-9)	-	-	-	250	150	-	-	400	-	-	12	6
4.	200805		Professional Development [#]	-	-	-	-	50	-	-	50	-	-	4	2
Total		-	-	-	250	200	50	150	650	7	0	16	15		
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)	Fundamental of Power Electronics (200854)	Biomedical Signal Processing	Power Management Integrated Circuits			
		(200855)	(200853)			

Open Course-4 (OC-4)Linear Dynamical Systems (900601)Sensors and Actuators (900602)