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

Department of Electronics Engineering
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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					ontac				
		~ .			Theory S	lot			Practical Slo	t			urs p week			Mode of	
S.			Subject Name	End	Sem.	3.41.1			T 1 337 1	Skill	Total				Total	Teaching	Mode of
No.	Code	y Code	·	End Term Evaluation	\$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Based Mini Project	Marks	L	T	P	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	-	-	1	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	ı	ı	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 Teachi	ing			Mode of E	xamination		
	T	heory		Lab		Theory		Lab	Total Credits
Offline	Online	Bler	nded	Ofgina	PP	4 . 0	MCO	60	
Offfine	Online	Offline	Online	Offline	PP	A+O	MCQ	SO	
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
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Scheme of Examination For batch admitted in Academic Session 2021-2022

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

					ľ	Maximum	Marks Allo	tted				Cont	act H	lours			
					Theory S	lot			Practical Slo	t		pe	er we	ek		Mode of	
S. No.	Subject	Category	Subject Name	End	Sem.	M. 1			T - 1- XX71-	Skill	Total				Total	Teaching	Mode of
5. 140.	Code	Code	Subject Name	End Term Evaluation	\$Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Based Mini Project	Marks	L	T	P	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	ı	-	ı	100	3	-	-	3	Blended (2/1)	PP
6.	100017	HSMC	Language Lab	-	-	-	-	60	20	20	100	00			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

	I	Mode of Teachi	ing			Mode of E	xamination		
	T	heory		Lab		Theory		Lab	Total Credits
Offline	Online	Bler	nded	Offline	PP	A + O	MCO	50	
Offfine	Online	Offline	Online	Offfine	PP	A+O	MCQ	so	
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 and Telecommunication Engineering) III Semester

Effective for academic session 2021-22 & 2022-23

S.	bject Code	Category	Subject Name		Theory S		Marks Allotte	d	Practical Slot			Conta	r week		Total	Mode of Teaching	Mode of
No.		Code	-	End End Term	Sem. SProficiency in subject	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Skill Based Mini	Total Marks	L	Т	P	Credits	(Offline/ Online)	Exam.
				Evaluation	/course					Project	00ر	2	1	-	3	Offline (3•0)	PP
1.	100025	BSC	Engineering Mathematics-II	50	10	20	20	-	-	20	200	2	1	2	4	Blended (3/1)	PP
2.	200311	DC	Electronics Circuit Design	50	10	20	20	60	20	-	100	2	1	-	3	Blended (2/1)	PP
3.	200318	DC	Network Theory	50	10	20	20	-	-	20	200	2	1	2	4	Blended (3/1)	PP
4.	200319	DC	Digital Circuits & Systems	50	10	- 20	20	60	20	20	100	2	1	-	3	Blended (2/1)	PP
5.	200320	DC	Analog Communication	50	10	20	20	-	20	20	100	-	-	2	1	Offline(1/0)	SO
6.	200321	DLC	Hardware lab	- 1	-	1 -	-	60	40	-	40	-	-	2	1	Online +Mentoring	so
7.	200316	DLC	Self-learning/ Presentation*	-	-	-	-	-		-	50	-	-	2	1	Interactive	SO
8.		CLC	Novel Engaging Course	-	-,	-		50	-		-	-					
9.	200317	DLC	Summer Internship Project-I (Institute Level	-		-	-	60	-	-	60	-	-	4	2	Offline	so
,.			Evaluation)		50	100	100	290	100	60	950	10	5	14	22		
		Total	Project Management	250	10	20	20		_	-	100	2	12-	-	Grade	Online	MC

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 *compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation SSMCO: Multiple Choice Question

Mode of Examination SIP/ SLP/ NEC Mode of Teaching Lab Theory Total Credits NEC Lab Theory SO SO MCQ Blended PP A+O Interactive Offline Online Offline 22 Online Offline 1 0 0 . 17 18.18% 4.54% 8 0% 3 77.27% 0% 4.54%

4.54%

13.63%

36.36%

18.18%

22.72%

Sulmila

R Tech (Flectronics and Talacommunication Engineering) IV Samester

0	0.11.4	Catal	B. Tech. (Ciccii					HOII	Engn	icei iii				Sici	49.	T	
S. No.	Subject Code	Categ ory Code	Subject Name		Theory	1aximum N y Slot	larks Allo		actical	Slot		Ho	onta ours p week	er		Mode of		Durat
				End S End Term Evaluati on	Sem. SProfici ency in subject /course	Mid Sem. Exam.	Quiz/ Assignm ent	End Sem	Lab Wor k & Sessi onal	Skill Based Mini Projec t	Total Marks	L	Т	P	Total Credi ts	Teaching (Offline/ Online)	Mode of Exam	n of Exam
1.	100003	BSC	Engineering Mathematics-III	50	10	20	20	-	-	-	100	2	1	-	3	Offline	PP	2 Hrs
2.	200416	DC	Digital Communication	50	10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
3.	200417	DC	Linear Control Theory	50	10	20	20	-	-	-	100	3	-	-	3	Blended	PP	2 Hrs
4.	200418	DC	Analog Integrated Circuits	50	. 10	20	20	60	20	20	200	2	1	2	4	Blended	PP	2 Hrs
5.	200419	DLC	Software Lab Introduction to MATLAB	-	-	-	-	60	20	20	100	-	-	4	2	Offline	SO	-
6	. 10000	4 MC	Cyber Security	50	10	20	20				100	2	-	-	2	Blended	MCQ	1.5 Hrs
7	·.	CLC	Novel Engaging Course	-	-	-		-	50	-	100	-	-	2		Interactive	SO	
		Tota		250	. 50	100	100	180	110	60	900	11	3 ector	10	19			
			Summer I	nternship	Project-II (Softskills B	ased) for 1	wo week	s durat	ion: Eval	lation in v	Seme	- Stei		1			
	9. 1000	00 MAG	Traditional	50	10	20	20	-	-	-	100	2	-	-	Grad e	Online	MCQ	

Proficiency in course/subject - includes the weightage towards ability/ skill/ competence/knowledge le

PP

18

81.81%

Theory

A+O

0

NEC

Interactive

4.54%

DEAN (ACADEMICS) M.I.T.S

GWALIOR

13.63% 27.27%

Online

Offline

Theory

Offline

27.27%

Lab

()ffline

18.18%

Mode of Teaching

Online

Blended

Mode of Examination

MCQ

2

9.09%

Lab

SO

4.54%

NEC

SO

Department of Electronics Engineering MITS Gwalior tan. .

Total

Credits

Credits o

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				Marks Allo						onta				
No.	Code	Code			Theory S	Slot			Practical S	lot	Total		urs j week	•	Total	Mode of	Mode
				End	Sem.	Mid	Quiz/	End	Lab	Skill	Total Marks	L	T	P	Total Credits	Teaching	of
				End Term Evaluation	*Proficiency in subject /course	Sem. Exam.	Assignment	Sem	Work & Sessional	Based Mini Project	WIATKS				Credits	(Offline/ Online)	Exam.
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	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	ı	-	4	2	Offline	SO
		Total		250	50	100	100	290	120	40	950	11	4	16	23		
	Addition	al Courses for	obtaining Honours/Min	or Specialization	by desirous stud	lents	Permitte	d to opt	for <u>maximum t</u>	wo additional	courses for	the av	vard (of Hon	ours or Mino	or specialization	
		#	*compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through a										ts an	d pres	sentation		
10.	1000006	MAC	Disaster Management	50	10	20	20	-	-	-	100	2	-	-	Grade	Online	MCQ
]	Honors	Principles ar	nd Techniques	of Moderi	n Radar Syste	ems		Hard	ware mode	eling	using	g veri	log		
						_						1.0					

Honors	Principles and Techniques of Modern Radar Systems	Hardware modeling using verilog
Minors	Control System	Introduction to Wireless and Cellular Communications



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

Department of Electronics Engineering Scheme of Evaluation

B. Tech. VI Semester (Electronics & Telecommunication Engineering)

													(for batch	admit	ted i	n acc	ademic s	session 202	<i>20-21)</i>
S.	Subject	Category	Subject Name				Maximum	Marks	s Allotted				Total	_	onta		Total	Mode of	\$\$Mode
No.	Code	Code			Theo	ory Slot			Practical S	lot	MOO	Cs	Marks		ours j week	•	Credits	Teaching	of Exam.
				-	l Term luation		ntinuous aluation	End Sem.	Contin Evalu		Assignment	Exam		L	Т	P			
				End Sem. Exam.	SProficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	Exam.	Lab work & Sessional	Skill Based Mini Project									
1.	200619	DC	Mobile Communication & 5G Networks	50	10	20	20	-	-	-	-	-	100	4	-	-	4	Blended	PP
2.	200616	DC	VLSI Design	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	PP
3.	2006XX	DE	Departmental Elective* (DE-1)	-	-	-	-	-	-	-	25	75	100	3	-	-	3	Blended	PP
4.	900XXX	OC	Open Category (OC-1)**	50	10	20	20	-	-	-	-	-	100	3	-	-	3	Blended	PP
5.	200617	MC	Artificial Intelligence & Machine Learning	50	10	20	20	60	20	20	-	-	200	3	-	2	4	Blended	MCQ
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
		Tot	tal	200	40	80	80	290	100	60	25	75	950	16	-	10	21	-	-
8.	1000007	MAC	Intellectual Property Rights (IPR)	50	10	20	20	-	-	-	-	-	100	2	-	-	GRADE	Online	MCQ
		•	Summe	er Interi	nship-III (On Job	Training) fo	or Fou	ir weeks o	duration	: Evaluation	on in V	II Semeste	er	•	•			
	Addit	tional Co	ourse for Honours of	r minor	F	Permitte	ed to opt for	maxin	num two	addition	al courses	for the	award of	Hone	ours	or I	Minor s	specializa	tion
		i	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 SWAVAM/NPTFL/MOOC platform

	This course run through 5 v	A I AMI/I I I I	L/ WOOC platform
	*DE-1 (SWAYAM/NPTEL/ MOOC platform)	**(Open Category (OC-1)(For students of other branches)
200661	Spread Spectrum Communication and Jamming	900116	Embedded Systems
200662		900117	Intelligent Control
200663	Fuzzy sets, logic and System & Applications		
200664	Analysis and Design Principle of Microwave Antennas		

^{\$\$}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

^{**} Course run in traditional mode

(Deemed to be University)

(Declared Under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

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

B. Tech. VII Semester [For batches admitted in Academic Session 2021-22 onwards]

S.N.	Subject Code	Category	Subject Name & Title				m Mark			idemite 5		OCS	Z onwards] Total	Con	tact H	ours	Total		
					Theor	ry Slot		Pract	tical Slo	t			Marks	р	er wee	ek	Credits		
					Term luation		inuous uation	End Sem		inuous uation								Mode of Teachin	
				End Sem	Profic iency in Subje ct Cours e	Mid Sem. Exa m	Quiz / Assig nme nt	•	Lab work & Sessi onals	Skill based mini proje ct	As sig nm ent	Exa ms		L	T	P		(Online, Offline, Blended)	\$\$Mode of Exam.
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.	900XXX	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 & Description (Section 1988)	-	-	-	-	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		
	1000008	MAC	Universal Human Values & professional ethics	50	10	20	20	-		-	-	-	100	2	-	-	GRADE	Blended	MCQ

^{*} This course must be run through SWAYAM/NPTEL/ MOOC

\$\$PP: Pen Paper\$\$SO: Submission + Oral

Department Electives-2 (DE-2) (2007XX)	Satellite and Radar Communication Systems (200711)	Telecommunication Switching and Network (20	0716)	Embedded Systems Design (200715)
Department Electives-3 (DE-3) (MOOCS) (2007XX)	Microwave Engineering (200754)	An Introduction to Coding Theory (200755)	Func	damentals of Nano and Quantum Photonics (200756)
Department Electives-4 (DE-4) (MOOCS) (2007XX)	Fiber Optic Communication Technology (200762)	Pattern Recognition and Applications (200763)	Simulation	on of Communication Systems using MATLAB (200764)

Open Course-2 (OC-2) Mobile Communication and 5G Standard (910218) Consumer Electronics (910217)

Honors	Introduction To Adaptive Signal Processing	VI	LSI Interconnects
Minors	Design of Photovoltaic Systems	Mici	rowave Engineering

^{\$\$}MCQ: Multiple Choice Question \$\$AO: Assignment + Oral

(Deemed University)

(Declared Under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

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

[For batches admitted in Academic Session 2021-22 onwards]

S.N.	Subject	Category	Subject Name & Title	Maximum Marks Allotted			MOOCS		Total	Contact		Total Credits			
	Code			Theory Slot Practical Slot]		Marks	Hours per						
				End	Mid			Term Work	Assignment Exams			week			
				Sem.	Sem. Exam	Assignment	Sem.	Lab Work & Sessional				L	T	P	
1.	2008XX	DE	Departmental Elective- 5*	-	-	-	-	-	25	75	100	-	-	-	3
2.	9006XX	OC	Open Course -3	-	-	-	-	-	25	75	100	3	-	-	3
3.	200804	DLC	Internship/Project (DLC-9)	-	-	-	250	150	-	-	400	-	-	18	9
4.	200805		Professional Development [#]	-	-	-	50	-	-	-	50	-	ı	4	2
	_		Total	-	-	-	300	150	50	150	650	3	0	22	17

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

^{*}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-3 (OC-3) Linear Dynamical Systems (900601) Sensors and Actuators (900602)

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