(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

						Maximun	n Marks Allo	tted				1	Conta	ct	1		
S.	Subject	Categor			Theory S	Slot		196	Practical Slo	t			ours	per		Made	
No.	Code	y Code	Subject Name		Sem.	1000				Skill	Total	-	week		Total	Mode of Teaching	Mode of
				End Term Evaluation	Proficiency in subject /course	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Lab Work & Sessional	Based Mini Project	Marks	L	Т	P	Credits	(Offline/ Online)	Exam.
1.	100013	BSC	Engineering Physics	50	10	20	20	60	40	-	200	2	1	2	4	Blended	
2.	100020	ESC	Basic Civil Engineering &Mechanics	50	10	20	20	-	-	-	100	2	1	-	3	(2/1) Blended	MCQ PP
3.	100021	ESC	Basic Mechanical Engineering	50	10	20	20	_			100					(2/1) Blended	PP
	100022	ESC	Basic Electrical &							-	100	2	1	-	3	(2/1)	MCQ
4.			Electronics Engineering	50	10	20	20	60	20	20	200	2	1	2	4	Blended	MCQ
5.	100023	ESC	Basic Computer Engineering	50	10	20	20	60	20	20	200	2				(2/1) Blended	
6.	140111/200111	ESC	Electronics Workshop	-				60				2	1	2	4	(2/1)	AO
		Total		450				60	20	20	100	-	-	2	1	Offline (1/0)	SO
1	Induction r		e of three weeks (MC)	250	50	100	100	240	80	80	900	10	-	0	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.

³Proficiency 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 Theory Lab Theory Lab Blended **Total Credits** Offline Online Offline PP Offline Online A+0 MCQ SO 0 10 5 3 4 0% 52.63% 26.31% 42.10% 15.78% 21.05% 57.89% 5.26%

Dr. Laxmi Shriyastaya (HOD)

(A Govt. Aided UGC Autonomous Institute & NAAC Accredited Institute 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) II Semester

					·	Maximum	Marks Allo	tted				Con	tact I	lours			
100					Theory S	lot			Practical Slo	t		p	er we	ek	10000	Mode of	
S. No.	Subject	Category	Subject Name	End	Sem.	N4:1		-		Skill	Total			1869	Total :	Teaching	Mode of
	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		Engineering Mathematics –I	50	10	20	20	-	-	- 1	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	-	4	-	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	-	15 -	-	-	60	20	20	100	-	-	2	I	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

PP

Offline

Mode of Teaching

Offline

36.84%

Blended

Online

Theory

Online

15.78%

4 15 0 15.78% 21.05% 78.94% 0%

Lab

Offline

Theory

A+O

Mode of Examination

MCO

15.78%

Lab

SO

5.26%

Total Credits

19

Dr. Laxmi Shrivastava (HOD)

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

Department of Electronics Engineering

Scheme of Examination For batch admitted in Academic Session 2020-2024

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

S.	Subject	Category	Subject Name	-	3	Maximu	m Marks All	otted				Cont					
No.	Code	Code		1200	Theory :	Slot			Practical Slo	t		pe	r wee		1000	Mode of	Mode
	10.00			En	d Sem.	Mid	Quiz/	End	Lab Work	Skill	Total	L	T	P	Total	Teaching	of
				End Term Evaluation	Proficiencyin subject /course		Assignment	Sem	& Sessional	Based Mini Project	Marks				Credits	(Offline/ Online)	Exam.
1.	100025	BSC	Engineering Mathematics-II	50	10	20	20	-	-	- 1	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		Electronics measurement Instrumentation	50	10	20	20	-	-	-	100	2	1	-	3	Blended (2/1)	PP
6.	140315/ 200315		Software Lab Introduction to MATLAB	-	-	-		60	20	20	100	-	-	2	1	Offline (1/0)	so
7.	140316/ 200316		*Self-learning/ Presentation*	- 1	- 3	-	- 5	-	40	-	40	-	-	2	1	Online +Mentoring	so
8.		CLC	Novel Engaging Course	-	-	-		60	40		100	-	-	2	1	Interactive	so
9.	140317/ 200317		Summer Internship Project-I (Institute Level Evaluation	-	-	-		60	-	70-8	60	-	-	4	2	Offline	so
Tota	d			250	50	100	100	300	140	60	1000	10	5	14	22		
10.	1000001	MAC	Indian Constitution andTraditional Knowledge	50	10	20	20	-	- 3	-	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	10				Mode of Exam	nination		
	T	heory		Lab	NEC		Theory		Lab	SIP/ SLP/ NEC	m
Offline	Online		nded	Offline	Interactive	PP	A+0	MCQ	so	so	Total Credits
Offinite	Onnic	Offline	Online						30	30	The second second
3	1	8	4	5	1	17	0	0	1	4	22
13.63%	4 54%	36 36R6	18.18%	22.72%	4.54%	77 27%	0%	0%	4.54%	18.18%	Credits %

ACADEMICS)

Baller Sheriastava (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 2020-2021

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

S.		Category	Subject Name		1	Maximun	Marks Allot	tted				Cont	act H	ours			
No.	Code	Code		A STATE OF THE STA	Theory S	lot			Practical Slo	it		pe	er wee	k		Mode of	(V
				End	Sem.	Mid	Quiz/	End	Lab Work	Skill	Total	L	T	P	Total	Teaching	Mode
				End Term Evaluation	Proficiency in subject /course	Sem. Exam.	Assignment	Sem	& Sessional	Based Mini Project	Marks				Credits	(Offline/ Online)	Exam.
1.	100003	BSC	Engineering Mathematics-III	50	10	20	20	-	-	7-4	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.	100003		Cyber Security	50	10	20	20				100	2	-	-	2	Online (0/2)	MCQ
8.		CLC	Novel Engaging Course	-	- 1	-	- 1	-	50	-	100	-	-	2	1	Interactive	so
		Total		300	60	120	120	240	130	80	1100	13	4	10	22		
			Summer	Internship !	Project-II (S	oftskills	Based) for	r two	weeks dura	tion: Ev	aluation	in V S	Seme	ster			
9.	1000002	MAC	Biology for Engineers Proficiency in course/subje	50	10	20	20	-	-	- ,	100	2	-	-	Grade	Online	MCQ

_ 1			Mode	of Teaching					Mode of Exan	nination		
CS		T	heory		Lab	NEC		Theory		Lab	NEC	Total Credits
	0.404	0 "	Bler	ıded	Offline	Interactive	PP	A+O	MCO	so	so	Total Credits
	Offline	Online	Offline	Online	Offilite	Interactive	rr	ATO	MCQ	30	50	
: 1	3	6	6	3	4	1	18	0	2	1	1	22
1	13.63%	27.27%	27.27%	13.63%	18.18%	4.54%	81.81%	0%	9.09%	4.54%	4.54%	Credits %

DEAN (ACADEMIC MITS GWALLOR

(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

Subject	Category	Subject Name				ım Marks Alloi	tted				Con	tact H	lours			
Code	Code	Subject Name		Theory		III Mai Ro Zano.		Practical Slot	t		р	er wee		Total	Mode of	Mode of
		-	End		Mid	Quiz/	End	Lab	Skill	Total Marks	L	T	P	Credits	(Offline/	Exam.
			End Term Evaluation	⁵ Proficiency in subject	Sem. Exam.	Assignment	Sem	Work & Sessional	Mini Project					1		
140511	MC	Data Science	50	10	20	20	60	20	20	200		0				MCQ
140512	DC			10	20	20	60	20	20	200	2	l	2	4	Blended(2/1)	PP
		Interfacing			-				-	100	2	l	-	3	Blended(2/1)	PP
140513		Linear Control Theory	50	10	20	1					2	1	2	4	Blended(2/1)	PP
140514	DC	Digital Communication	50	10	20	20	60	20	20		2	1	-	3	Blended(2/1)	PP
140515	DC	Electromagnetic Fields	50	10	20	20	-	-	-				-	-	Offline(2/0)	SO
140516	DLC	Minor Project-I	-	-		-	60	40	-	100	-	-	4	2		so
1.40517	-	,		_	_	-	-3	40	-	40	-	-	2	1	+Mentoring	50
140317	DLC	Presentation"			-		50	,	-	50	-	т.	2	1	Interactive	SO
	CLC	Course	-	-		-								2	Offina	so
140518		Summer Internship	_	-	-	-	60	-		60	-	-	4	2	Offinic	
	DLC					100	350	140	60	1050	11	4	18	24		
	Tof	ıal				100	330	for maximum	two additio	nal course	es for t	he awa	ard of I	Honours or I	Minor specializa	tion
Additio	nal Courses	for obtaining Honours/Minor	Specializatio	n by desirous str	ıdents		tted to opt 1	or <u>maximum</u>		100	2	-	_ 1	GRADE	Online	MCQ
		Disaster Management	50	10	20	20	-	-	-		-			GRADE	Online	MCQ
1000005		Project Management & Financing	50	10	20	20	-	-	-	100	2			GICADE		
	140511 140512 140513 140514 140515 140516 140517	Code	Code Code 140511 MC Data Science 140512 DC Microprocessor & Interfacing 140513 DC Linear Control Theory 140514 DC Digital Communication 140515 DC Electromagnetic Fields 140516 DLC Minor Project-I 140517 DLC Self-learning/Presentation CLC Novel Engaging Course 140518 DLC Summer Internship Project-II (Institute Level Evaluation) Total Additional Courses for obtaining Honours/Minor 1000006 MAC Disaster Management & Project Management	Code	Subject Code	Subject Code	Subject Code	Code	Subject Code	Subject Code	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Subject Node	Note Code Code	Subject Code Code Subject Name Subject Nam

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 55AO: Assignment + Oral SSMCO: Multiple Choice Question

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

		Subi	ect Names
Category	Domain	Bringiples and Techniques of Modern Radar	Signal Processing for mm Wave communication for
Hons	Communication		JO and beyond
	Processing	Hardware modeling using VERILOG	System Design Through VERILOG
	VLSI Design		Control System
Minor	Control & Selisor Technology	Wireless and Cellular	Principles and Techniques of Modern Radar Systems
1122	Communication and Signal	Communications	

DEAN (ACADEMICS)

viechanical/Automobil m . .

Electronics Engineering

	1				B. Te	ch. V	Seme	ster E	llec	tronics	Engin	eering	5							
É	10.1	oject Name .			Effe	office for	aximun	mic sex	ssio	n 2020-2	1, 2021-	22, & 2	022-23			nta				
	gor Sul	ojeci Rame .			Theory	Slot			Pra	actical Slo	t	MO	OCs		per				Mode of	
1	ode			nd Te	rm	Conti	nuous uation	End		Continu Evalua	tion	Assig nment	Exam	Total Mark	L	T	P	Total Credits	Teaching (Online, Offline,	Mode of Exam.
			End Se Exan	n.	y in subject	Mid Sem. Exam.	Quiz/ Assig ment	Sem	1.	Lab work & Sessiona	Skill Based Mini Project			S					Blended)	
			5.	0	/course	20	20	60	1	20	20	- 1	-	200	3	-	2	4	Blended	PP
140615	DC	Digital Signal Processi		50	10	20	20			20	20	-	-	200	3	-	2	4	Blended	PP
140616	DC	VLSI Design Artificial Intelligence		50	10	20	20			20	20	_	_	200	3	-	2	4	Blended	MCQ
140617	MC DE	Machine Learning Departmental Election	ve*		SA SHIPS	20				20		25	75	100	3		**************************************	3	Blended	MOOC
406XX 00XXX	OC	Open Category (OC	100	50	10	20	2		230		_	10 10 10 TO	- Carlotte Company	100	3	-	-	3	Blended	MCQ
140618			-1)	-	10	-			60	40	_	_	_	100	-	-	4	2	Offline	SO
00XX		Novel Engaging C			- Later - 1			y y	50			7 53.2		50	-	12	2	1	Interactive	so
1		(Informal Learnin	8)	200	40	8	0	80	290	100	60	25	75	950	15	-	12	2.1	_	-
0000	07 M	AC Intellectual Proper	rty	50	10	13.	20	20	1-	-12			125	100	2		2 2	GRA	Online	MCQ
		1 8 ()		Sı	ımmer In	ternship	-III (On	Job Tra	inin	g) for Fo	ır weeks	duratio	n: Evalua	tion in V	II Se	mes	ter	DE	1 (m. 1 m. 1)	oderate a
7	Sp	rse for Honors or necialization			I	Permitte	d to opt	or maxi	mui	n two add	itional co	ourses fo	or the awa	rd of Ho	nors	or N	1ino			er Come
_	*C	ey in course/subject Aultiple Choice Que Course run through	SWAY	AU	weight ag	ge towar	11		PP.	Pen Paper	wledge le	evel/ exp	pertise atta	ained etc	. in th	at p	arti	icular co	ırse/subject	•
	bepartm	190C) 1406XX 190C) 1406XX	-1)		Spread S munication	pectrum		Digita	al IC 1406	Design	Fuzzy Se	ets, Logi	c and Syst on 140663	ems &	A	naly		and Desig	n Principles Antennas	of

DEAN (ACAI)EMICS)
Open Course-1 (OC-1)

Embedded Systems 900116

Intelligent Control 900117

Analysis and Design Principles of Microwave Antennas 140664

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Scheme of Examination (B.Tech. Electronics Engineering)

B.Tech. VII Semester [For batches admitted in Academic Session 2020-21 onwards]

S.	Subject	Cate	Subject Name &			Maximu	ım Marks	Allotted	l		MO	OCS	Total	_	onta		Total	_	
N	Code	gory	Title		Theor	y Slot		Praction	cal Slot				Mark s		ours j week	-	Credits	Mode of	
				-	l Term luation		nuous ıation	End Sem.		inuous uation			S		WCCR	•		Teaching (Online,	\$\$Mode of
				End Sem.	Profici ency in	Mid Sem.	Quiz/ Assig		Lab work	Skill	Assi gn	Exa ms						Offline, Blended)	Exam.
				Sem.	Subject Course	Exam	nment		& Session als	based mini project	me nt	IIIS		L	Т	P			
1.	1407XX	DE	DE-2	50	10	20	20	_	-	-			100	3	-	-	3	Blended	PP
2.	1407XX	DE	DE -3*	-	-	-	-	-	-	1	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	-	-	1	-	-	100	3	-	-	3	Blended	PP
6.	140704	DLC	Embedded Systems Design lab	-	-	-	-	60	20	20	-	1	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	1	-	1	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	-	-	-	-	. 1	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	a and Wave Propagation (140714)	Embedded Systems Design (140715)
Department Electives-3 (DE-3) (MOOCS) (1407XX)	Digital Image Processing (140751)		Mid	crowave Engineering (140754)
Department Electives-4 (DE-4) (MOOCS) (1407XX)	Introduction to Wireless Cellular Commu (140761)	nication	Fiber Optic	Communication Technology (140762)
Open Course-2 (OC-2)	Satellite System (910216)		Сс	onsumer Electronics (910217)

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

(A Govt. Aided UGC Autonomous Institute, Affiliated to RGPV, Bhopal (M.P.) India)

NAAC Accredited with A++ Grade

B.Tech Electronics Engineering

Scheme of Examination B.Tech. VIII Semester

[For batches admitted in Academic Session 2020-21]

S.N.	Subject	Categ	Subject Name & Title	Maximum Marks Allotted			MC	OOCS	Total Contact		ct	Total	Mode	Mode	Duratio			
	Code	ory		,	Theory S	lot	Prac	ctical Slot			Mark	Hours per		Credits	of	of _	n of	
				End	Mid	Quiz/	End	Term	Ass	Exam	S	week			Teachi	Exam	Exam	
				Sem	Sem.	Assign	Sem	Work	ign	S					ng			
					Exam	ment	•	Lab	me			L	L T P					
								Work &	nt									
								Sessional										
1.	1408XX	DE	Departmental Elective-5*	-	-	-	-	-	25	75	100	3	-	-	3	Online	MCQ	1.5 Hrs
2.	9006XX	OC	Open Course -4	-	-	-	-	-	25	75	100	3	ı	-	3	Online	MCQ	1.5 Hrs
3.	140804	DLC	Internship/Project	-	-	-	250	150	-	-	400	-	-	18	9	Offline	SO	-
4.	140805		Professional Development#	-	-	-	50	-	-	-	50	1	ı	4	2	Offline	SO	-
	Total		-	•	-	300	150	50	150	650	06	ı	22	17			-	
Additi	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

List of DEs and OCs:

Department Electives-1 (DE-5) (1408XX)	Fundamental of Power Electronics	Biomedical Signal Processing	Photonic Integrated Circuit
	(140854)	(140855)	(140856)

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

Honors	Communication & Signal Processing (Track)	An Introduction to Information Theory (H140805)	Computer Vision and Image Pr	rocessing- Fundamentals and Applications (H140806)		
VLSI Design (Track)		Microwave Integrated Circuits (H140807)	Integrated Circuits, MOSF	FETs, OP-Amps and their Applications (H140808)		
Minors	Communication & Signal Processing (Track)	Signal Processing Techniques and its App	lications (M140802)	Computer Vision and Image Processing- Fundamentals and Applications (M140804)		
	Control & Sensor Technology (Track)	Control System Design (M140805)		Optical Fiber Sensors (M140806)		

Mode of Teaching						Mode				
	The	ory		Lab	Theory			Lab	Total Cuadita	
Offline	Online	Bler	ıded	Office	PP	40	MCO	CO	Total Credits	
Offfine	Online	Offline	Online	Offline	PP	AO	MCQ	SO		
-	6	-	-	11	-	-	6	11	17	
-	35.29%		64.71%	-	-	35.29%	64.71%	100%		

^{*}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)