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

#### Scheme of Examination (B.Tech. Electronics Engineering)

**GROUP A:I Semester** 

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

S.I	No Subject	Catego	Subject Name		Max	imum Marks	Allotted		Total				Total
	Code	ry			Theory S	Slot	Pract	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
6.	100206	HSMC	Language Lab. & Seminars(HSMC-2)	-	-	-	30	20	50	-	-	4	2
			Total t three weeks (MC) : Ph	350	100	50	150	100	750	14	1	12	21

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)
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 Engineering) GROUP A: II Semester

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

S.No	Subject	Category	Subject Name			num Marks A			Total	Contac	ct Hours p	er week	Total
	Code				Theory Sl	ot	Pract	tical Slot	Marks				Credits
				End Sem.	Mid Sem.	Quiz/ Assignme nt	End Sem.	Lab work- & Sessional		L	T	P	
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 ~	- 10	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 -1	(Institute Le	vel) (Qua	lifier): Minim	um two-we	ek durati	on		

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 Engineering)

Г	T			III Semester For bar	cnes ad				18=19=Onwaras		~ .	. **		m ( )	
1	S.No.	Subject	Category	Subject Name		N	laximum Marks	Allotted		Total Marks	Conta			Total Credits	
		Code				Theory S	Slot	Pra	ctical Slot	Marks	per	weel		Creuns	
					End Sem.	Mid Sem.	Quiz/ Assignment	End Sem	Term work		L	T	P		
						Exam.	1200-Gillion		Lab Work & Sessional						
	1.	100001	BSC	Mathematics-II (BSC-4)	70	20	10 .	-		100	3	1	-	4	
Ì	2.	140301	DC	Electronics – I (DC-1)	70	20	10	30	20	100	1	1	2	4	
1	3.	140302	DC	Digital Circuits and Systems (DC-2)	70	20	10	3D	20 20	150	3	-	2	4	
1	4.	140303	DC	Network Theory (DC-3)	70	20	10	30	20	150	3	-	2	4	
	5.	140304	DC	Signals& Systems (DC-4)	70	20	10	30	270	150	3	1	43	4	
-	6.	140305*	DLC	Software Lab Introduction to MATLAB (DLC-1)	-	-	-	30	20	50	1-	-	2	1	
	7.	140306#	SEMINAR/ SELF STUDY	Self learning/Presentation (SWAYAM/NPTEL/ MOOC)#	-	-	-	-	25	25	-	-	2	1	
	8.	140307	DLC	Summer Internship Project-I (Institute Level (Evaluation)	-	-	-	25	-	25		1	4	2	
				Total	350	100	50	145	105	750	14	3:	14	24	
	9.	100002 <sup>s</sup>	MC	Biology for Engineers(Audit Course) (MC)	70	20	10	-	-	100	3		1-	-	
-				NSS/NCC					Qualifier						

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

Scheme of Examination (B.Tech. Electronics Engineering)

S. No.	Subject Code	Category	Subject Name			Maximum Mar		ion 2018-19 om d	Total	AND ASSESSED.	tact H		Total
1	Couc				Theory	Slot	Pra	actical Slot	Marks	p	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.	140401	DC	Electronics II (DC-5)	70	20	10	30	20	150	2	1	2	4
3.	140402	DC	Analog Communication (DC-6)	70	20	10	30	20	150	2	1	2	4
4.	140403	DC	Communication Networks (DC-7)	70	20	10	-	-	100	3	1	-	4
5.	140404	DC	Electronics Measurement and Instrumentation (DC-8)	70	20	10	4	-	100	3	1	-	4
6.	100004	MC	Cyber Security (MC)	70	20	10	-	-	100	2	1	-	3
7.	140405	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			1		
		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

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(A Coxt. Aided UGC Antonomous & NAAC Accredited Institute Affiliated to RGPV. Bhopal)

Scheme of Examination (B. Tech. Electronics Engineering)

S.	Subject	Category	Subject Name		Theory S	mum Marks lot	Pra	ctical Slot	Marks		T	P	
lo.	Code			End Sem.	Mid Sem Exam.	Quiz/ Assisgnm ent	End Sem.	Lab work & Sessional	100	3			3
	100005	HSMC	Ethics, Economics,	70	20	10		-	100			-	- 4
			Entrepreneurship& Management	70	20	10	-		150	7	1	2	4
	140502	DC	Electromagnetic Theory	70	20	10	30	20	150	2	1	2	4
	140503	DC	Data Communication) (E)	70	20	10	30	20	150	7	ī	2	4
	140504	DC	Linear Control Theory	70	20	10	30	20	50		-	2	1
	140505	DC	Digital Communication	-		-	30	20	25			6	3
	140506	DLC	Minor Project-I**	_	-	-	25	-	25				
	140507	DLC	Summer Internship Project-II (Evaluation)					25	25	-	-	2	1
	120508	SELI STUDY	Self-learning/Presentation   (SWAYAM/NPTEL/ MOOC)*	350	100	50	145	105	750	12	4	16	24
			Total			10	-	-	100	3			
	100006	MC	Indian Constitution & Traditional Knowledge (Audit Course) (MC)				shop/aw by HoD to	areness progr o the Exam C	ontroller thre	onducted	l; certifica n Academ	ics	

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Group A/B programmes will offer this course in V/VI Semester respectively. Group A B programmes will offer this course in V/VI Semester respectively. (This is a non-creen course and it is optional to appear & pass in the end semester controller. Powerer a courate mark spect will be issued to those who will quality)

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

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

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

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

Scheme of Examination (B.Tech. Electronics Engineering)

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

S.	Subject	Category	Subject Name		Maxin	num Marks	Allotted		MO	ocs	Total	Con	tact H	ours	Total
No	Code	The second second			Theory Slo	t	Prac	tical Slot			Marks	p	er wee	ek	Credits
	100			End	Mid	Quiz/	End	Lab work	Assig	Mark	the transfer	L	T	P	
		Theren and		Sem.	Sem	Assignm	Sem.	&	nment	S		187			
					Exam.	ent		Sessional							
1.	140601	DC	Microprocessors &	70	20	10	30	20	-	-	150	2	1	2	4
			Interfacing (DC-13)								The state of the s			1	
2.	140602	DC	Digital Signal	70	20	10	11-10	-	-	-	100	3	1		4
			Processing (DC-14)											19 10	
3.	1406XX	DE	DE-1*	70	20	10	1-		-	-	100	4	-	-	4
4.	1406XX	DE	DE-2*	-	- 12 m	-	-	- 120	25	75	100	4			4
5.	1	OC	OC-1*	70	20 ,	10	- ,	-4.45	- 1	-	100 ;	2	1	-	, 3
6.	100007	MC	Disaster	70	20	10	-	-	-	-	100	3	-	-	3
	11,337		Management (MC)		1										
7.	140606	DLC	Minor Project-II	-	- 1	1-1-1-10	50	50	-	-	100	-	-	4	2
			(DLC-5)		MIN						A GROOM		1000	1 - 110	The Real Property lies
			Total	350	100	50	80	70	25	75	750	18	3	6	24
				Sui	mmer Interi	iship-III (O	Job Trai	ining) for Fou	ır weeks	duration:	Evaluation	in VI	I Sem	ester	A FORMAL SERVICE
A . J . J .	dianal Caus	see for obtaining												-	
		rses for obtaining	D.	ittad	to ant fam n		wo odditi	ional common	for the			NA			
		or Specialization	Pe	ermittea	to opt for I	naximum t	wo additi	onal courses	for the	award of	Honours	or Mi	mor s	pecia	ization
	esirous stud		nuct be run through SW		INCORP ( ) A	000	1							- 25 6	Na or and

* At least one of these courses must be run throug	h SWAYAM/NPTEL/ MOOC
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Department Electives-1 (DE-1) 1406XX	Optical Communication 140611	Antennas and Wave Propagation 140612	Telecom Switching and Networks 140613
Department Electives-2 (DE-2) (MOOC) 1406XX	Spread Spectrum Communications and Jamming 140651	Digital IC Design 140652	Fuzzy Sets, Logic and Systems & Application 140653
Open Course-1 (OC-1	) Intelligent Control 90010	4 Embedded Sys	tems 900105

1	Honors	Electromagnetic Waves in Guided and	Integrated Circuits, MOS	FETs, Op-Amps and their Application	High Power multilevel converter
		Wireless Media	Comment of the Commen		
	Minors	Integrated Circuits, MOSFETs, Op-Amps and	their Application	High Power multilevel converter	

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

B. Tech. VII Semester (Electronics Engineering)

S.N.	Subject Code	Categ	Subject Name & Title	End Sem.	Maxin Theory S Mid Sem. Exam	mum Mark Slot Quiz/ Assignm ent	Prac End Sem.	ed ctical Slot Term Work Lab Work &	Assign ment	Exam s	Tota l Mar ks	Ho	onta urs j veek	per	Tot al Cre dits	Teaching (Online, Offline, Blended)	Exam
		DE.	DE-3	70	20	10	-	Sessional -	-	-	100	3	-	-	3	Blended (2/1)	PP
1.	1407XX	DE						_	25	75	100	2	-	` <b>-</b>	2	Online	MCC
2.	1407XX	DE OC	DE -4* OC -2	70	20	10		-	-	-	100	2	1	-	3	Blended (2/1)	PP
3.				70	20	10	-	-	-	-	100	3	-	-	3	Blended	PP
4.	1	OC	OC-3					*	_	_	100	2	-	1	2	(2/1) Online	MC
5.	100008	MC	Intellectual Property Rights (IPR) (MC)	70	20	10								7	1	(2/0) Offline	SC
6.	140701	DLC	VLSI Lab (DLC-6)	-	-	-	50	50	-	-	100	-	-	4	2	Offine	00
7.	140702	DLC	Summer Internship Project-III (DLC-7) (04 weeks)	-	-	-	50	50	-		100	•	-		2	Offline	SO
8.	140703	DLC	Creative Problem Solving (DLC-8)	-	-	-	25	25	-	-	50	-	-	2	1	Offline	S
			Total	280	80	40	125	125	25	75	750	10	1	18	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 2	200712	Microwave Engineering 200713
	Department Electives-2 (DE-4) (MOOCS) (20075X)	Digital Image Processing 200751	Introduction	to Wireless (	Cellular Communication 200752
N	Open Course-1 (OC-2)	Satellite System (900206	6)	Consume	er Electronics (900207)

DEAN (ACADEMICS)

Consumer Electronics (900207) Open Course-1 (OC-3) MEMS & Mechatronics (900218) Multimedia Communication (900219)

Data Science for Engineers Design of Photovoltaic Systems Honors Introduction to Coding Theory Minors Microwave Engineering

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

				12 or butch	0 onwards											
	15	Subject	Category	Subject Name &		Ma	ximum Marks	Allotte	d	MOOC	cs ·	Total	Co	ontac	ct	Total
/		Code		Title		Theory	Slot	Pra	ctical Slot			Marks	Ho	urs p	per	Credits
	AV				End	Mid	Quiz/	End	Term	Assignment	Exams		V	week		
1	A	Y			Sem.	Sem.	Assignment	Sem.	Work							4
	AI	V		V		Exam			Lab Work				L	T	P	
	AV	J	1						& Sessional							
1	1	1408XX	DE	Departmental	-	-	-	-	-	25	75	100	4	-	-	4
				Elective-5*												
12	2. 1	9006XX	OC	Open Course -4	-	-	-	-	-	25	75	100	2	-	-	2
7	3.	140804	DLC	Internship/Project	-	-	-	250	150	-	-	400	-	-	12	6
1				(DLC-9)	A				1							
	4.	140805	, 1	Professional	A - /	-	-	-	50	-	-	50	-	-	2	
				Development#								170	06		11	12
				Total		_	-	250	200	50	150	650	06		14	13

Hopours or minor Specialization by desirous students

Additional Courses for obtaining

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

List of Des and Ocs: Analysis and Design Principles of Biomedical Signal Fundamental of Power Department Electives-1 (DE-5) Power Management Microwave Antennas Electronics (140854) Processing Integrated Circuits (1408XX) (140856)(140855)(140853)Sensors and Actuators (900602) Linear Dynamical Systems (900601) Open Course-4 (OC-4)

DEAN (ACADEMICS)

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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)