REGULATIONS - 2020 CHOICE BASED CREDIT SYSTEM B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

I TO VIII SEMESTERS CURRICULUM AND SYLLABUS

		I TO VIII SEMESTERS CUI SEME	STER I	OTELABOO				
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT	1	ERIOI R WE		CREDITS
				PERIODS	L	Т	Р	
THEOR	Y		1	<u> </u>	1	1	1	T
1	UHS1151	Technical English - I	HS	3	3	0	0	3
2	UMA1151	Mathematics - I	BS	4	3	1	0	4
3	UPH1151	Engineering Physics - I	BS	3	3	0	0	3
4	UCY1151	Engineering Chemistry	BS	3	3	0	0	3
5	UGE1151	Python Programming and Problem Solving	ES	3	3	0	0	3
THEOR	Y CUM PRA	CTICAL						
6	UBE1161	Basic Civil and Mechanical Engineering (Theory + Lab)	ES	5	3	0	2	4
PRACT	ICALS		1				1	l
7	UBS1161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
8	UGE1161	Python Programming and Problem Solving Laboratory	ES	4	0	0 0 4		2
			TOTAL	29	18	1	10	24
		SEME	STER II					
S.NO.	COURSE	COURSE TITLE	E CATEGORY	TOTAL CONTACT	1	ERIOI R WE		CREDITS
				PERIODS	L	Т	Р	1
THEOR			110		Ι .		Γ	
1	UHS1251	Technical English - II	HS	3	3	0	0	3
2	UMA1251	Mathematics - II	BS	4	3	1	0	4
3	UPH1251	Engineering Physics - II	BS	3	3	0	0	3
4	UGE1251	Environmental Science and Engineering	HS	3	3	0	0	3
5	UGE1252	C Programming	ES	3	3	0	0	3
6	UGE1253	Engineering Graphics	ES	5	1	0	4	3
7	UHS1252	Professional skills - I	EEC	2	0	0	2	1
THEOR	Y CUM PRA	T	1		1	1 1		T
8	UBE1261	Basic Electrical and Electronics Engineering (Theory + Lab)	ES	4	2	0	2	3
PRACT			1		1			T
9	UGE1261	C Programming Laboratory	ES	4	0	0	4	2
		TOTAL		31	18	1	12	25

		SEM	ESTER III					
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT		ERIOI R WE		CREDITS
	CODE			PERIODS	L	Т	Р	
THEOR	Y							
1.	UMA1354	Transforms and Numerical Analysis	BS	4	3	1	0	4
2.	UEC1301	Circuit Analysis and Devices	PC	3	3	0	0	3
3.	UEC1302	Digital Electronics	PC	3	3	0	0	3
4.	UEC1303	Signals and Systems	PC	4	3	1	0	4
5.	UEC1304	Electronic Circuits	PC	3	3	0	0	3
6.	UCS1351	OOPS and Data Structures	ES	3	3	0	0	3
7.	UHS1351	Professional Skills-II	EEC	2	0	0	2	1
PRACT	ICALS		·					
8.	UEC1311	Analog and Digital Circuits Laboratory	PC	4	0	0	4	2
9.	UCS1361	OOPS and Data Structures Laboratory	ES	4	0	0	4	2
10.	UHS1361	Interpersonal Skills Laboratory	EEC	2	0	0	2	1
			TOTAL	32	18	2	12	26
		SEM	ESTER IV					
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT		PERIODS PER WEEK		CREDITS
				PERIODS	L	Т	Р	
THEOR	Υ <u> </u>	Drobobility and Dandom	1			1		
1.	UMA1453	Probability and Random Processes	BS	4	3	1	0	4
2.	UEC1401	Linear Integrated Circuits and Applications	PC	3	3	0	0	3
3.	UEC1402	Microprocessors and Microcontrollers	PC	3	3	0	0	3
4.	UEC1403	Electromagnetic Theory	PC	4	3	1	0	4
5.	UEC1404	Analog and Digital Communication	PC	3	3	0	0	3
6.	UEE1451	Control Systems Engineering	PC	3	3	0	0	3
7.	UHS1451	Professional Skills-III	EEC	2	0	0	2	1
PRACT	ICALS							
8.	UEC1411	Linear Integrated Circuits Laboratory	PC	4	0	0	4	2
9.	UEC1412	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
10.	UEC1413	Analog and Digital Communication Laboratory	PC	4	0	0	4	2
	1		TOTAL	34	18	2	14	27

		SEMI	ESTER V					
S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	TOTAL CONTACT PERIODS		ERIOI R WE		CREDITS
THEOR	Y		l		1	1	1	
1.	UEC1501	Digital Signal Processing	PC	4	3	1	0	4
2.	UEC1502	VLSI Design	PC	3	3	0	0	3
3.	UEC1503	Transmission Lines and RF Systems	PC	4	3	1	0	4
4.	UMG1551	Principles of Management	HS	3	3	0	0	3
5.	UCS1552	Computer Architecture	PC	3	3	0	0	3
6.		Open Elective – I	OE	3	3	0	0	3
7.	UHS1551	Professional Skills-IV	EEC	2	0	0	2	1
PRACT	ICALS							
8.	UEC1511	Digital Signal Processing Laboratory	PC	4	0	0	4	2
9.	UEC1512	VLSI Design Laboratory	PC	4	0	0	4	2
10.	UHS1561	Professional Communication Laboratory	ommunication EEC 4 0 0		4	2		
			TOTAL	34	18	2	14	27
		SEME	ESTER VI					
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT		ERIOI R WE		CREDITS
THEOR				PERIODS	L	Т	Р	
1.	UEC1601	Antenna and Microwave Measurements	PC	4	3	1	0	4
2.	UEC1602	Embedded Systems and IoT	PC	3	3	0	0	3
3.	UEC1603	Communication Networks	PC	3	3	0	0	3
4.	UEC1604	Speech and Image Processing	PC	3	3	0	0	3
5.	UEC1605	Programmable Logic Controller	PC	3	3	0	0	3
6.		Professional Elective – I	PE	3	3	0	0	3
PRACT	ICALS	Fact added Original Control of the T		I	Τ	 		1
7.	UEC1611	Embedded Systems and IoT Laboratory	PC	4	0	0	4	2
8.	UEC1612	Speech and Image Processing Laboratory	PC	4	0	0	4	2
			TOTAL	27	18	1	8	23

		SEMES	STER VII						
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT		ERIOI R WE	_	CREDITS	
				PERIODS	L	Т	Р		
THEOR	T			<u> </u>		1		T	
1.	UEC1701	RF MEMS circuit design	PC	3	3	0	0	3	
2.	UEC1702	Optical Communication Networks	PC	3	3	0	0	3	
3.	UEC1703	Adhoc and Wireless Sensor Networks	PC	3	3	0	0	3	
4.	UEC1704	Wireless Communication	PC	3	3	0	0	3	
5.	UMG1054	Professional Ethics in Engineering	HS	3	3	0	0	3	
6.		Open Elective - II	OE	3	3	0	0	3	
PRACT	ICALS				1	1	1		
7.	UEC1711	RF System Design and Communication Laboratory	PC	4	0	0	4	2	
8.	UEC1712	Networks Laboratory	PC	4	0	0	4	2	
			TOTAL	26	18	0	8	22	
		SEMES	STER VIII	1				l	
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT	1	ERIOI R WE	_	CREDITS	
				PERIODS	L	T	Р	_	
THEOR	Y	I	Γ	Γ	1	ı	1	T	
1.		Professional Elective - II	PE	3	3	0	0	3	
2.		Professional Elective - III	PE	3	3	0	0	3	
PRACT	TCALS								
3.	UEC1811	Project Work	EEC	12	0	0	12	6	
			TOTAL	18	6	0	12	12	

TOTAL NO OF CREDITS: 186

	PROFESSIONAL ELECTIVE – I (SEMESTER VI)											
S.NO.	O. COURSE COURSE TITLE CATEGOR	COURSE TITLE	CATEGORY	TOTAL CONTACT		IODS WEEK	CREDITS					
			PERIODS	L	Т	Р						
1	UEC1001	Transducer Engineering	PE	3	3	0	0	3				
2	UEC1002	Bio-Medical Electronics	PE	3	3	0	0	3				
3	UEC1003	Multimedia Compression Techniques	PE	3	3	0	0	3				
4	UEC1004	CMOS Analog IC Design	PE	3	3	0	0	3				

PROFESSIONAL ELECTIVE – II (SEMESTER VIII)										
S.NO.	COURSE	COURSE TITLE		TOTAL CONTACT		IODS WEEK	CREDITS			
	CODE			PERIODS	L	Т	Р			
5	UEC1005	Cognitive Radio	PE	3	3	0	0	3		
6	UEC1006	High Speed Networks	PE	3	3	0	0	3		
7	UEC1007	Nano Electronics	PE	3	3	0	0	3		
8	UEC1008	FPGA Based Embedded System Design	PE	3	3	0	0	3		

	PROFESSIONAL ELECTIVE – III (SEMESTER VIII)											
S.NO.	COURSE	COURSE TITLE CATEGORY C	CATEGORY	TOTAL CONTACT		IODS WEEK	CREDITS					
	CODE		PERIODS	L	Т	Р						
9	UEC1009	Advanced Wireless Communication	PE	3	3	0	0	3				
10	UEC1010	Advanced Digital Signal Processing	PE	3	3	0	0	3				
11	UEC1011	Electromagnetic Interference and Compatibility	PE	3	3	0	0	3				
12	UEC1012	Satellite Communication	PE	3	3	0	0	3				

	OPEN ELECTIVE - I (SEMESTER V)											
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT		IODS WEEK	CREDITS					
	CODE		PERIODS		L	T	Р					
1	OAM1551	Machine Learning Techniques	OE	3	3	0	0	3				
2	OAD1551	Advanced Python Programming	OE	3	3	0	0	3				
3	OCS1551	Artificial Neural networks	OE	3	3	0	0	3				
4	OCS1552	Artificial Intelligence	OE	3	3	0	0	3				
5	OEE1551	Renewable Energy Systems	OE	3	3	0	0	3				

	OPEN ELECTIVE - II (SEMESTER VII)											
S.NO.	COURSE	COURSE TITLE	CATEGORY	TOTAL CONTACT		IODS WEEK	CREDITS					
	CODE			PERIODS	L	T	Р					
6	OAD1751	Big Data Technologies	OE	3	3	0	0	3				
7	OEE1751	Power Electronics	OE	3	3	0	0	3				
8	OIT1751	Cryptography and Network Security	OE	3	3	0	0	3				
9	OCS1753	Database Management System	OE	3	3	0	0	3				
10	OCS1754	Internet Programming	OE	3	3	0	0	3				

			SUBJEC	T CATEGO	ORIZATIO	N		
SEMESTER	нѕ	BS	ES	PC	PE	OE	EEC	Total Credits
ı	1	4	3	-	-	-	-	23
11	2	2	4	-	-	-	1	25
III		1	2	5		-	2	27
IV	-	1	-	8	-	-	1	27
V	1	-	-	6	-	1	2	27
VI	-	-	-	7	1	-	-	23
VII	1	-	-	6	-	1	-	22
VIII	-	-	-	-	2	-	1	12
Total Credits	15	27	24	91	9	6	14	186
% Distribution	8.06	14.52	12.90	48.92	4.84	3.23	7.53	100

HOD Member Secretary Academic Council Chairman