B. V. V. Sangha

BASAVESHWAR ENGINEERING COLLEGE

SCHEME OF TEACHING AND EXAMINATION

B.E. (Electronics & Communication Engineering)   **w.e.f. 2022-23**

I SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1.	ASC (IC)	22UMA101C	Mathematics for Electrical Sciences - I	Maths Dept.	3	0	2	0	5	50	50	100	4
2.	ASC (IC)	22UPH105C	Physics for Electrical Sciences	Physics Dept.	3	0	2	0	5	50	50	100	4
3.	ESC	22UEC113C	Basic Electronics	Dept.	3	0	0	0	3	50	50	100	3
4.	ESC-I	22UCS120E	Introduction to C Programming	CSE Dept.	2	0	2	0	4	50	50	100	3
5.	ETC-I	22UEC134B	Introduction to Embedded System	Dept.	3	0	0	0	3	50	50	100	3
6.		22UEC135B	Introduction to Communication Technology										
7.	HSMC	22UHS124C	Communicative English	HSS Dept.	1	0	0	0	1	50	50	100	1
8.	HSMC	22UHS125C	Indian Constitution	HSS Dept.	1	0	0	0	1	50	50	100	1
9.	AEC	22UHS128C	Scientific Foundations of Health	Dept.	1	0	0	0	1	50	50	100	1
				Total	17	0	06	0	23	**400**	**400**	**800**	**20**

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B.E. (Electronics & Communication Engineering)   **w.e.f. 2022-23**

II SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1.	ASC (IC)	22UMA201C	Mathematics for Electrical Sciences - II	Maths Dept.	3	0	2	0	5	50	50	100	4
2.	ASC (IC)	22UCH209C	Chemistry for Electrical Sciences	Chemistry Dept.	3	0	2	0	5	50	50	100	4
3.	ESC	22UME223C	CAED	Civil / Mechanical Dept.	2	0	2	0	4	50	50	100	3
4.	ESC-I	22UEC114N/ 214N	Engineering Science Course-I (Introduction to Electronics Engineering)	Respective Dept.	3	0	0	0	3	50	50	100	3
5.	PLC-I	22UCS231B	Introduction to Python Programming	CSE Dept.	2	0	2	0	4	50	50	100	3
6.	HSMC	22UHS224C	Professional Writing Skills in English	HSS Dept.	1	0	0	0	1	50	50	100	1
7.	HSMC	22UHS226C	Sanskritika Kannada	HSS Dept.	1	0	0	0	1	50	50	100	1
8.		22UHS227C	Balake Kannada										
9.	AEC	22UHS229C	Innovation and Design Thinking	Dept.	1	0	0	0	1	50	50	100	1
				Total	14	0	06	0	20	400	400	800	20

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III SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	BSC	22UMA301C	Partial Differential Equations and Integral Transforms	Maths Dept.	3	0	0	0	3	50	50	100	3
2	IPCC	22UEC302C	Semiconductor Devices and Circuits	Dept.	3	0	2	3	8	50	50	100	4
3	IPCC	22UEC303C	Digital Electronics and Logic Design	Dept.	3	0	2	3	8	50	50	100	4
4	PCC	22UEC304C	Network Analysis	Dept.	3	0	0	2	5	50	50	100	3
5	IPCC	22UEC305C	Data Structures using "C"	Dept.	3	0	2	3	8	50	50	100	4
6	AEC	22UBT340C	Biology for Engineers	BT Dept.	2	0	0	0	2	50	50	100	2
7	PCC	21UMA300M	Bridge Course Mathematics – I*	Maths Dept.	3*	0	0	0	3*	50*	50*	100*	0
	MC	NS	National Service Scheme (NSS)	NSS CO	0	0	2	0	2	100	-	100	0
		PE	Physical Education (PE)(Sports and Athletics)	PED									
		YO	Yoga	PED									
				Total	17	0	8	11	36	**400**	**300**	**700**	**20**
					20*	0*	8*	11	39*	**450***	**350***	**800***	**20**
		AAP	AICTE Activity Points (Applicable for both Regular and Lateral Entry students)	50 hours community service to be documented and produced for the examination 10 Points of Allied Service to be documented and produced for the examination									

IV SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1.	BSC	22UMA401C	Statistics and Probability Distributions	Maths Dept.	3	0	0	0	3	50	50	100	3
2.	PCC	22UEC402C	Signals and Systems	Dept.	3	2	0	2	5	50	50	100	4
3.	IPCC	22UEC403C	Analog Circuit Design	Dept.	3	0	2	3	8	50	50	100	4
4.	IPCC	22UEC404C	Analog and Digital Communication	Dept.	3	0	2	3	8	50	50	100	4
5.	IPCC	22UEC405C	ARM Microcontroller	Dept.	3	0	2	3	8	50	50	100	4
6.	HSSM	22UHS424C	Universal Human Values - II	HSS Dept.	1	0	0	0	1	50	50	100	1
7.	PCC	22UMA400M	Bridge Course Mathematics – II*	Maths Dept.	3*	0	0	0	3*	50*	50*	100*	0
	MC	NS	National Service Scheme (NSS)	NSS CO	0	0	2	0	2	100	-	100	0
		PE	Physical Education (PE)(Sports and Athletics)	PED									
		YO	Yoga	PED									
				Total	16	0	8	11	35	400	300	700	20
					19*	0	8*	11	38*	450*	350*	800*	20
		AAP	AICTE Activity Points (Applicable for both Regular and Lateral Entry students)	50 hours community service to be documented and produced for the examination 10 Points of Allied Service to be documented and produced for the examination									

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	IPCC	22UEC501C	Digital Signal Processing	Dept.	3	0	2	3	8	50	50	100	4
2	PCC	22UEC502C	Control Engineering	Dept.	3	0	0	2	5	50	50	100	3
3	PCC	22UEC503C	Computer Networks	Dept.	3	0	0	2	5	50	50	100	3
4	PEC	22UEC506E	Internet of Things	Dept.	3	0	0	0	3	50	50	100	3
		22UEC507E	Verilog Programming										
		22UEC508E	Mobile Communication										
		22UEC509E	Speech Processing										
5	AEC	22UHS521C	Quantitative Aptitude and Professional Skills	Placement Dept.	2	0	0	0	2	50	50	100	2
6	OEC	22UEC508N	Wireless Networks	Dept.	3	0	0	0	3	50	50	100	3
		22UEC532N	Digital Electronics and Microcontrollers										
7	HSSM	22UBT522C	Environmental Studies	BT Dept.	1	0	0	0	1	50	50	100	1
8	MP	22UEC511P	Mini Project	Dept.	0	0	4	0	4	50	50	100	2
	MC	NS	National Service Scheme (NSS)	NSS CO	0	0	2	0	2	100	-	100	0
		PE	Physical Education (PE)(Sports and Athletics)	PED									
		YO	Yoga	PED									
			Total		18	0	8	7	33	**500**	**400**	**900**	**21**
		AAP	AICTE Activity Points (Applicable for both Regular and Lateral Entry students)	50 hours community service to be documented and produced for the examination 10 Points of Allied Service to be documented and produced for the examination									

VI SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PCC	22UEC601C	Information Theory and Coding	Dept.	3	0	0	2	5	50	50	100	3
2	PCC	22UEC602C	Electromagnetic Theory	Dept.	2	2	0	2	6	50	50	100	3
3	PCC	22UEC603C	CMOS Digital VLSI Design	Dept.	3	0	0	2	5	50	50	100	3
4	PCC	22UEC614C	Fiber Optics and Networks	Dept.	3	0	0	2	5	50	50	100	3
5	AEC	22UEC615C	Java Programming	Dept.	2	0	0	2	4	50	50	100	1
6	PEC	22UEC616E	Micro Eelectro Mechanical Systems	Dept.	3	0	0	0	3	50	50	100	3
		22UEC607E	Computer Organization										
		22UEC615E	Embedded Systems										
		22UEC617E	Digital Verification										
7	OEC	22UEC609N	Sensor Technology	Dept.	3	0	0	0	3	50	50	100	3
		22UEC610N	Image Processing										
8	PR	22UEC608P	Project Work	Dept.	0	0	6	0	6	--	---	--	0
	MC	NS	National Service Scheme (NSS)	NSS CO	0	0	2	0	2	100	-	100	0
		PE	Physical Education (PE)(Sports and Athletics)	PED									
		YO	Yoga	PED									
				Total	19	2	8	10	39	450	350	800	19
		AAP	AICTE Activity Points (Applicable for both Regular and Lateral Entry students)	50 hours community service to be documented and produced for the examination 10 Points of Allied Service to be documented and produced for the examination									

VII SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P	S					
1	PCC	22UEC701C	Microwaves and Antenna	Dept.	3	0	0	2	5	50	50	100	3
2	PEC	22UEC711E	DSP Algorithms and Architecture	Dept.	3	0	0	0	3	50	50	100	3
		22UEC712E	Machine Learning										
		22UEC713E	RTL to GDS2										
		22UEC714E	Multimedia Communication										
3	PEC	22UEC715E	Multi-rate Signal Processing	Dept.	3	0	0	0	3	50	50	100	3
		22UEC716E	Cyber Security										
		22UEC717E	IC Technology										
		22UEC718E	Operating Systems										
4	HSSM	22UEC709N	Human Resource and Management	Dept.	3	0	0	0	3	50	50	100	3
5	PR	22UEC708P	Project Work	Dept.	0	0	6	0	6	50	50	100	12
			Total		12	0	06	2	20	**250**	**250**	**500**	**24**
		AAP	AICTE Activity Points (Applicable for both Regular and Lateral Entry students)	50 hours community service to be documented and produced for the examination 10 Points of Allied Service to be documented and produced for the examination									

VIII SEMESTER

Sl. No.	Course and Course Code		Course Title	Teaching / Paper setting Dept.	Teaching hrs./week				Examination				Credits
					Lecture	Tutorial	Practical/ Drawing	Self-Study Component	Duration in hrs.	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1.	AEC	22UECXXXX	MOOCs	Online	0	0	0	0	0	0	0	0	3
2.	OEC	22UECXXXX	MOOCs	Online	0	0	0	0	0	0	0	0	3
3.	INT	22UEC801T	Internship	Industry	0	0	0	0	0	50	50	100	10
				Total	0	0	0	0	0	**50**	**50**	**100**	**16**