VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Electronics and Communication Engineering

Scheme of Teaching and Examinations2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2023-24)

III SEMESTER

				â	Те	aching Hou	rs /Week			Exan	nination	ſ	-
SI. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	Т	Р	S					
1	PCC	BEC301	Maths for AV Communication	TD- Maths PSB - Maths	3	0	0		03	50	50	100	3
2	IPCC	BEC302	Analysis and Design of Digital Circuits	TD: ECE PSB: ECE	3	0	2		03	50	50	100	4
З	IPCC	BEC303	Analog Electronic Circuits	TD: ECE PSB: ECE	3	0	2		03	50	50	100	4
4	PCC	BEC304	Network Analysis	TD: ECE PSB: ECE	3	0	0		03	50	50	100	3
5	PCCL	BECL305	Analog and Digital Electronics Laboratory	TD: ECE PSB: ECE	0	0	2		03	50	50	100	1
6	ESC	BXX306x	ESC/ETC/PLC	TD: PSB:	3	0	0		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100		100	1
	AEC /	BXX358x	Ability Enhancement Course/Skill Enhancement Course - III			If the course is a Theory100If a course is a laboratory			01 50		50	100	1
0					=					50			
8					0	ourse is a	2		02				
	SEC				0	0	2						
9	MC	BNSK359	National Service Scheme (NSS)	NSS coordinator			0 2			100		100	0
		BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0							
		BYOK359	Yoga	Yoga Teacher									
	ı		1 -			•			Total	550	350	900	20

Technology Course, PLC: Programming Language Course

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Engineering Science Course (ESC/ETC/PLC)									
BEC306A	Digital System Design using Verilog	BEC306C	Computer Organization and Architecture						
BEC306B	Sensors and Instrumentation	BEC306D	Applied Numerical methods						
Ability Enhancement Course – III									
BEC358A	LICs Lab using PSPICE	BEC358C	Digital Engineering Course (NASSCOM)						
BEC358B	Simulink Programming Basics	BEC358D	IOT for Smart Infrastructure						

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23 may please be refered.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

V SEN	NESTER				1	Feaching I	Hours /Weel	k		Exam	ination		<u> </u>
SI. No		irse and rse Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	г Theory Lecture	Tutorial	ъ Practical/ Drawing	o Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	BEC401	Engineering Electromagnetics	ECE	3	0	0		03	50	50	100	3
2	IPCC	BEC402	Principles of Communication Systems	ECE	3	0	2		03	50	50	100	4
3	IPCC	BEC403	Modern Control systems	ECE	4	0	0		03	50	50	100	2
4	PCCL	BECL404	Communication laboratory	ECE	0	0	2		03	50	50	100	1
5	ESC	BEC405x	ESC/ETC/PLC	ECE	3	0	0		03	50	50	100	
	AEC BXX4 / SEC	DVVAFC	Ability Enhancement Course/Skill	TD and PSB: Concerned department	If the course is Theory			01					
					1	0	0		01	50	50	100	
6		BXX456x	Enhancement Course- IV		If the course is a lab			02	50	50	100	1	
					0	0	2		02				
4	BSC	BBOK407	Biology For Engineers	TD / PSB: BT, CHE,	3	0	0		03	50	50	100	
7	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	-
9	MC	BNSK459	National Service Scheme (NSS)	NSS coordinator	0						400	100 900	0
		MC BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director		0	2			100			
		BYOK459	Yoga	Yoga Teacher									
		,		Director						500			

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Ability Enhancement Course / Skill Enhancement Course - IV									
BEC456A	Electronic Devices	BEC456C	LabVIEW Programming						
BEC456B	BEC456B PCB Design BEC456D Risk Management in IOT Implementation								
Engineering Science Course (ESC/ETC/PLC)									
BEC405A	105A 8051 Microcontroller BEC405C Operating Systems								
BEC405B	5B Industrial Electronics BEC405D Engineering Statistics and Linear Algebra								
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