

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Electrical & Electronics Engineering**Scheme of Teaching and Examinations 2022**

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

(Effective from the academic year 2023-24)

III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PCC	BEE301	Engineering Mathematics for EEE	Maths	3	0	0		03	50	50	100	3
2	IPCC	BEE302	Electric Circuit Analysis	EEE	3	0	2		03	50	50	100	4
3	IPCC	BEE303	Analog Electronic Circuits	EEE	3	0	2		03	50	50	100	4
4	PCC	BEE304	Transformers and Generators	EEE	3	0	0		03	50	50	100	3
5	PCCL	BEEL305	Transformers and Generators lab	EEE	0	0	2		03	50	50	100	1
6	ESC	BEE306x	ESC/ETC/PLC	EEE	3	0	0		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100	---	100	1
8	AEC/ SEC	BEE358x	Ability Enhancement Course/Skill Enhancement Course - III	EEE	If the course is a Theory				01	50	50	100	1
					1	0	0						
					If a course is a laboratory				02				
0	0	2											
9	MC	BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	0
		BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK359	Yoga	Yoga Teacher									
Total									550	350	900	20	

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **MC:** Mandatory Course (Non-credit), **AEC:** Ability Enhancement Course, **SEC:** Skill Enhancement Course, **L:** Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. K : This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **ETC:** Emerging Technology Course, **PLC:** Programming Language Course

Engineering Science Course (ESC/ETC/PLC)			
BEE306A	Digital Logic Circuits	BEE306C	Electromagnetic Field Theory
BEE306B	Electrical Measurements and Instrumentation	BEE306D	Physics of Electronic Devices
Ability Enhancement Course – III			
BEEL358A	SCI LAB/MATLAB for Transformers and Generators	BEEL358B	555 IC Laboratory
BEEL358C	Circuit Laboratory using P Spice	BEEL358D	Electrical Hardware Laboratory
<p>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 referred.</p> <p>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.</p>			

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IV SEMESTER													
Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P	S					
1	PCC	BEE401	Electric Motors	EEE	3	0	0		03	50	50	100	3
2	PCC	BEE402	Transmission and Distribution	EEE	4	0	0		03	50	50	100	4
3	IPCC	BEE403	Microcontrollers	EEE	3	0	2		03	50	50	100	4
4	PCCL	BEEL404	Electric Motors lab	EEE	0	0	2		03	50	50	100	1
5	ESC	BEE405x	ESC/ETC/PLC	EEE	3	0	0		03	50	50	100	3
6	AEC/ SEC	BEE456x	Ability Enhancement Course/Skill Enhancement Course- IV	EEE	If the course is Theory				01	50	50	100	1
					1	0	0						
					If the course is a lab				02				
0	0	2											
7	BSC	BBOK407	Biology For Engineers	TD / PSB: BT, CHE,	3	0	0		03	50	50	100	3
8	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	1
9	MC	BNSK459	National Service Scheme (NSS)	NSS coordinator	0	0	2		100	---	100	0	
		BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK459	Yoga	Yoga Teacher									
Total									500	400	900	20	

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **MC:** Mandatory Course (Non-credit), **AEC:** Ability Enhancement Course, **SEC:** Skill Enhancement Course, **L:** Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **K :** This letter in the course code indicates common to all the stream of engineering.

Ability Enhancement Course / Skill Enhancement Course - IV			
BEEL456A	Basics of VHDL Lab	BEEL456B	Sci Lab / MATLAB for Electrical and Electronic Measurements
BEEL456C	PCB Design Laboratory	BEEL456D	Aurdino & Rasberry PI Based Projects
Engineering Science Course (ESC/ETC/PLC)			
BEE405A	Electrical Power Generation and Economics	BEE405C	Engineering Materials
BEE405B	Op-Amp and LIC	BEE405D	Object Oriented Programming
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