



(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi)
B.E. in ELECTRONICS AND COMMUNICATION ENGINEERING
2024 Scheme of Teaching and Examinations

III SEMESTER														
Sl. No.	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination					
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits	
1	PCC/BSC	BMATE24301	Transform Calculus and Special Functions	Maths	L 2	T 2	P 0	S	03	50	50	100	3	
2	IPCC	BEC24302	Analog Electronic Circuits (Integrated)	ECE	3	0	2		03	50	50	100	4	
3	IPCC	BEC24303	Signals and Systems (Integrated)	ECE	3	0	2		03	50	50	100	4	
4	PCC	BEC24304	Digital System Design using Verilog	ECE	3	0	0		03	50	50	100	3	
5	PCCL	BECL24305	Digital System Design using Verilog Laboratory	ECE	0	0	2		03	50	50	100	1	
6	ETC/PLC	BEC24306x	ETC/PLC	ECE	3	0	0		03	50	50	100	3	
7	UHV	BSCK24307	Social Connect and Responsibility	ECE	0	0	2		01	100	---	100	1	
8	AEC/ SEC	BEC24358x	Ability Enhancement Course/Skill Enhancement Course - III	ECE	If the course is a Theory				01	50	50	100	1	
					1	0	0							
					If a course is a laboratory									
					0	0	2		02					
9	MC	BNSK24359	National Service Scheme (NSS)	NSS coordinator	0	0	2				100	---	100	0
		BPEK24359	Physical Education (PE) (Sports and Athletics)	Physical Education Director										
		BYOK24359	Yoga	Yoga Teacher										
		BLAK24359	Music	Prominent NGO										
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:

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:



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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		
1	PCC/BSC	BMATE24301	Transform Calculus and Special Functions	Maths	2	2	0		03	50	50	100	3	
2	IPCC	BEC24302	Analog Electronic Circuits (Integrated)	ECE	3	0	2		03	50	50	100	4	
3	IPCC	BEC24303	Signals and Systems (Integrated)	ECE	3	0	2		03	50	50	100	4	
4	PCC	BEC24304	Digital System Design using Verilog	ECE	3	0	0		03	50	50	100	3	
5	PCCL	BECL24305	Digital System Design using Verilog Laboratory	ECE	0	0	2		03	50	50	100	1	
6	ETC/PLC	BEC24306x	ETC/PLC	ECE	3	0	0		03	50	50	100	3	
7	UHV	BSCK24307	Social Connect and Responsibility	ECE	0	0	2		01	100	---	100	1	
8	AEC/ SEC	BEC24358x	Ability Enhancement Course/Skill Enhancement Course - III	ECE	If the course is a Theory				01	50	50	100	1	
					1	0	0							
					If a course is a laboratory				02					
9	MC	BNSK24359	National Service Scheme (NSS)	NSS coordinator	0	0	2				100	---	100	0
		BPEK24359	Physical Education (PE) (Sports and Athletics)	Physical Education Director										
		BYOK24359	Yoga	Yoga Teacher										
		BLAK24359	Music	Prominent NGO										
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:**



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IV 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
1	PCC/BSC	BMATE24401	Probability and Complex Analysis	Maths	2	2	0		03	50	50	100	3
2	IPCC	BEC24402	Circuits and Controls (Integrated)	ECE	3	0	2		03	50	50	100	4
3	PCC	BEC24403	Engineering Electromagnetics	ECE	3	0	0		03	50	50	100	3
4	PCC	BEC24404	Principles of Communication Systems	ECE	3	0	0		03	50	50	100	3
5	PCCL	BECL24405	Principles of Communication Systems Laboratory	ECE	0	0	2		03	50	50	100	1
6	ETC/PLC	BEC24406x	ETC/PLC	ECE	3	0	0		03	50	50	100	3
7	AEC/ SEC	BEC24457x	Ability Enhancement Course/Skill Enhancement Course- IV	ECE	If the course is Theory				01	50	50	100	1
					1	0	0						
					If the course is a lab				02				
					0	0	2						
8	BSC	BBOK24407	Biology For Engineers	ECE/Chemistry	1	0	0		01	50	50	100	1
9	UHV	BUHK24408	Universal human values course	ECE	1	0	0		01	50	50	100	1
10	MC	BNSK24459	National Service Scheme (NSS)	NSS coordinator						100	---	100	0
		BPEK24459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24459	Yoga	Yoga Teacher									
		BLAK24459	Music	Prominent NGO									
Total										550	450	1000	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. **ETC:** Emerging Technology Course, **PLC:** Programming Language Course.

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Emerging Technology Course/Programming Language Course (ETC/PLC)			
BEC24406A	Data Structures using C	BEC24406C	Introduction to Artificial Intelligence
BEC24406B	Microcontroller	BEC24406D	Sensors and Instrumentation
Ability Enhancement Course / Skill Enhancement Course – IV			
BEC24457A(L:T:P)	Data Structures Laboratory using C	BEC24457C(L:T:P)	Software Development Life Cycle
BEC24457B(L:T:P)	Microcontroller Laboratory	BEC24457D(L:T:P)	Arduino-based Circuit Simulation using Tinkercad


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V SEMESTER

Sl. No.	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits					
					Theory	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks				
1	HSMC	BEC24501	Engineering Economics and Management	ECE	3	0	0		03	50	50	100	3				
2	IPCC	BEC24502	Digital Signal Processing (Integrated)	ECE	3	0	2		03	50	50	100	4				
3	PCC	BEC24503	VLSI Design	ECE	3	0	0		03	50	50	100	3				
4	PCCL	BEC24504	VLSI Design Laboratory	ECE	0	0	2		03	50	50	100	1				
5	PEC	BEC24505x	Professional Elective Course I	ECE	3	0	0		03	50	50	100	3				
6	AEC/ SEC	BEC24556x	Ability Enhancement Course/Skill Enhancement Course- V	ECE	If the course is Theory			01	50	50	100	1					
					1	0	0										
					If the course is Lab			02									
7	PROJ	BEC24507	Mini Project	ECE	0	0	4		03	100	-	100	2				
8	AEC	BRMK24557	Research Methodology and IPR	ECE	2	2	0		03	50	50	100	3				
9	MC	BESK24508	Environmental Studies	Civil	1	0	0		01	100	--	100	0				
10	MC	BNSK24559	National Service Scheme (NSS)	NSS coordinator													
		BPEK24559	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2		100	--	100	0					
		BYOK24559	Yoga	Yoga Teacher													
		BLAK24559	Music	Prominent NGO													
Total														650	350	1000	20
Professional Elective Course I																	
BEC24505A	JAVA Programming	BEC24505C	Information Theory and Coding														
BEC24505B	Machine Learning with Python	BEC24505D	Biomedical Signal Processing														
Ability Enhancement Course / Skill Enhancement Course – V																	
BEC24556A(L:T:P)	Java Programming Laboratory	BEC24556C(L:T:P)	Communication Simulink Toolbox														
BEC24556B(L:T:P)	Introduction to AR and VR	BEC24556D(L:T:P)	Industrial Robotics														

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VI 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	
1	IPCC	BEC24601	Embedded Systems (Integrated)	ECE	3	0	2		03	50	50	100	4
2	PCC	BEC24602	Digital Communication Systems	ECE	3	0	0		03	50	50	100	3
3	PCC	BEC24603	Design for Testability	ECE	3	0	0		03	50	50	100	3
4	PEC	BEC24604x	Professional Elective Course II	ECE	3	0	0		03	50	50	100	3
5	OEC	BEC24605x	Open Elective Course I	Any Department	3	0	0		03	50	50	100	3
6	PROJ	BEC24606	Project Phase I	ECE	0	0	4		03	100	--	100	2
7	PCCL	BECL24607	Communication Systems Laboratory	ECE	0	0	2		03	50	50	100	1
8	AEC/SDC	BEC24657x	Ability Enhancement Course/Skill Development Course VI	ECE	If the course is offered as a Theory				01	50	50	100	1
					1	0	0						
					If course is offered as a practical				02				
9	IKS	BIKS24608	Indian Knowledge System	ECE	1	0	0		01	100	---	100	0
		BNSK24659	National Service Scheme (NSS)	NSS coordinator									
		BPEK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100	---	100	0
10	MC	BYOK24659	Yoga	Yoga Teacher									
		BLAK24659	Music	Prominent NGO									
					Total					650	350	1000	20
Professional Elective Course II													
BEC24603A	Digital Image Processing			BEC24603C	System Verilog								
BEC24603B	Power Electronics			BEC24603D	Automotive Electronics								

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Open Elective Course I			
BEC24604A	Electronics Communication Systems	BEC24604C	Signal Processing
BEC24604B	Micro Electro Mechanical Systems	BEC24604D	Introduction to Digital Image Processing
Ability Enhancement Course / Skill Enhancement Course-VI			
BEC24657A(L:T:P)	Technical writing using LATEX Laboratory	BEC24657C(L:T:P)	Next Generation Semiconductor Devices
BEC24657B(L:T:P)	Digital Image Processing Laboratory	BEC24657D(L:T:P)	Design for Testability Laboratory


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VII SEMESTER (Swappable VII and VIII SEMESTER)													
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours / Week				Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA					
					L	T	P	S					
1	IPCC	BEC24701	Computer Communication Networks (Integrated)	ECE	3	0	2		03	50	50	100	4
2	IPCC	BEC24702	Microwave and Antenna (Integrated)	ECE	3	0	2		03	50	50	100	3
3	PCC	BEC24703	Wireless and Mobile Communication	ECE	3	0	0		03	50	50	100	3
4	PEC	BEC24704x	Professional Elective Course / (Online) III	ECE	3	0	0		03	50	50	100	3
5	OEC	BEC24705x	Open Elective Course / (online) II	Any Department	3	0	0		03	100	100	200	7
6	PROJ	BEC24706	Major Project Phase-II	ECE	0	0	14						
Total									03	350	350	700	24

Professional Elective Course III

BEC24704A	Cryptography	BEC24704C	Optical Fiber communications
BEC24704B	Electronics and Communication for Sustainable Development	BEC24704D	Satellite Communication
Open Elective Course II			
BEC24705A	Mobile Technology and Applications	BEC24705C	Smart Sensors & Instrumentation
BEC24705B	Automotive Electronics	BEC24705D	Introduction to Multimedia Communication

Note: VII and VIII semesters of IV years of the program

- (1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.
- (2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is completed during the beginning of the IV year or the later part of IV years of the program.

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VIII SEMESTER (Swappable VII and VIII SEMESTER)

VIII SEMESTER (Swappable VII and VIII 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	
1	PEC	BEC24801x	Professional Elective (Online Courses) IV	ECE	3	0	0		03	50	50	100	3
2	PEC	BEC24802x	Professional Elective (Online Courses) V	ECE	3	0	0		03	50	50	100	3
3	INT	BEC24803	Internship (Industry/Research) (14 - 20 weeks)	ECE	0	0	12		03	100	100	200	10
										200	200	400	16
Professional Elective Course (Online courses) IV													
BEC24801A	BOS Recommended Course			BEC24801C	BOS Recommended Course								
BEC24801B	BOS Recommended Course			BEC24801D	BOS Recommended Course								
Professional Elective Course (Online courses) V													
BEC24802A	BOS Recommended Course			BEC24802C	BOS Recommended Course								
BEC24802B	BOS Recommended Course			BEC24802D	BOS Recommended Course								
L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. TD- Teaching Department, PSB: Paper Setting department, OEC: Open Elective Course, PEC: Professional Elective Course. PROJ: Project work, INT: Industry Internship / Research Internship / Rural Internship													
Note: VII and VIII semesters of IV years of the program													
Swapping Facility													
• Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate research internships/ industry internships/Rural Internship after the VI semester.													
• Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program.													
Elucidation:													
At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester Research Internship /Industrial Internship / Rural Internship shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship.													

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Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation centre, Incubation centre, Start-up, centre of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internships for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent University examination after satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavour of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship. The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (within or outside the state or abroad), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. University shall not bear any cost involved in carrying out the internship by students. However, students can receive any financial assistance extended by the organization.

Professional Elective /Open Elective Course: These are ONLINE courses suggested by the respective Board of Studies. Details of these courses shall be made available for students on the VTU web portal.


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VI SEMESTER (A)													
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	
1	IPCC	BEC24601	Embedded Systems (Integrated) To be completed in 4th semester	ECE	3	0	2		03	50	50	100	4
2	PCC	BEC24602	Digital Communication Systems To be completed in 4th semester	ECE	3	0	0		03	50	50	100	3
3	PCC	BEC24603	Design for testability To be completed in 4th semester	ECE	3	0	0		03	50	50	100	3
4	PEC	BEC24604x	Professional Elective Course II	ECE	3	0	0		03	50	50	100	3
5	OEC	BEC24605x	Open Elective Course I	Any Department	3	0	0		03	50	50	100	3
6	PROJ	BEC24P606	Project Phase I	ECE	0	0	4		03	100	--	100	2
7	PCCL	BEC24L607	Communication Systems Laboratory	ECE	0	0	2		03	50	50	100	1
8	AEC/SDC	BEC24657x	Ability Enhancement Course/Skill Development Course V	ECE	If the course is offered as a Theory				01	50	50	100	1
					1	0	0	0					
					If course is offered as a practical				02				
					0	0	2						
9	IKS	BIKS24608	Indian Knowledge System	Any Department	1	0	0		01	100	--	100	0
10	MC	BNSK24659	National Service Scheme (NSS)	NSS coordinator									
		BPEK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2		---	100	---	100	0
		BYOK24659	Yoga	Yoga Teacher									
		BLAK24659	Liberal Arts	Prominent NGO									
Total										650	350	1000	20

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VII and VIII semesters for the candidate those who seek an internship with project work (A)

Sl. No.	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					L	T	P	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BEC24701	Computer Communication Networks (Integrated) To be completed in 5th/6th semester	ECE	3	0	2		03	50	50	100	4
2	IPCC	BEC24702	Microwave and Antenna (Integrated) To be completed in 5th/6th semester	ECE	3	0	2		03	50	50	100	4
3	PCC	BEC24703	Wireless and Mobile Communication To be completed in the 6th semester	ECE	3	0	0		03	50	50	100	3
4	PEC	BEC24704x	Professional Elective Course/Online III	ECE	3	0	0		03	50	50	100	3
5	OEC	BEC24705x	Open Elective Courses/Online II	Any Department	3	0	0		03	50	50	100	3
1	PEC	BEC24801x	Professional Elective (MOOC Courses) IV	ECE	3	0	0		03	50	50	100	3
2	PEC	BEC24802x	Professional Elective (MOOC Courses) V	ECE	3	0	0		03	50	50	100	3
3	INT	BEC24803	Internship (Industry/Research) (02 semesters)	ECE	0	0	12		03	100	100	200	10
4	PROJ	BEC24P804	Major Project II - outcome of training	ECE	0	0	14		03	100	100	200	7
Total										550	550	1100	40

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