



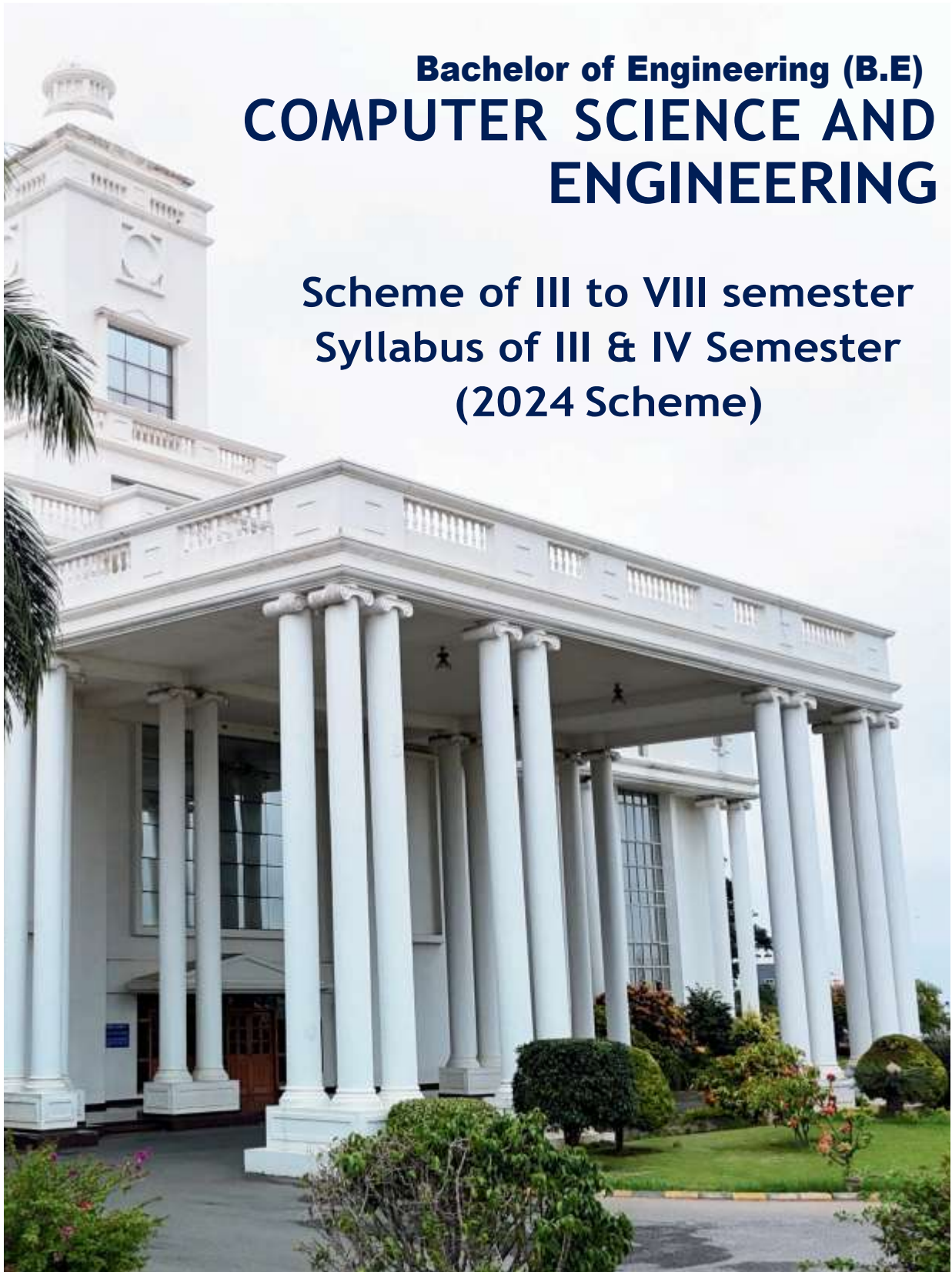
GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous) Approved by AICTE, New Delhi, Affiliated to VTU,
Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560098



Bachelor of Engineering (B.E) COMPUTER SCIENCE AND ENGINEERING

**Scheme of III to VIII semester
Syllabus of III & IV Semester
(2024 Scheme)**



BE Programs: CS, IS, AI&DS, EC, CS-AI&ML, EE, ME, CE, AE, AI&ML

PG Programs: M.Tech (CSE), M.Tech(Structural Engg.), MBA

Ph.D Programs: VTU Affiliated Research Centers in Engineering



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(Autonomous System of 2024 Scheme)

Bachelor of Engineering (B.E) in COMPUTER SCIENCE AND ENGINEERING

Vision

To achieve academic excellence and strengthen the skills to meet emerging challenges of computer science and engineering.

Mission

- M1: To impart strong theoretical foundation in the field of Computer Science and Engineering accompanied with extensive practical skills.
- M2: To inculcate research and innovation spirit through interaction with industry and carry out projects that address societal needs.
- M3: Instill professional ethics and values with a concern for environment.



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Scheme of Teaching and Examinations 2025

(with effect from AY 2025-26)

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/ BSC	BMATS24301	Discrete Mathematics	TD: MAT, PSB: MAT	3	0	0		03	50	50	100	3
2	IPCC	BCS24302	Data Structures and Applications	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
3	IPCC	BCS24303	Digital Design and Computer Organization	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
4	PCC	BCS24304	Operating Systems	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
5	PCCL	BCSL24305	Unix Shell Programming	TD: CSE, PSB: CSE	0	0	2	1	03	50	50	100	1
6	ETC/ PLC	BCS24306x	ETC/PLC	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
7	UHV	BSCK24307	Social Connect and Responsibility	Any Department	0	0	2	1	01	100	---	100	1
8	AEC/ SEC	BCS24358x	Ability Enhancement Course/ Skill Enhancement Course - III	TD: CSE, PSB: CSE	If the course is Theory				01	50	50	100	1
					1	0	0	1					
					If the course is Lab				02				
					0	0	2	1					
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	Music 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			
.			
Emerging Technology Course /Programming Language Course (ETC/PLC)			
BCS24306A	Programming with Julia	BCS24306C	Cyber Security
BCS24306B	Object Oriented Programming with C++	BCS24306D	Robotic Process Automation
Ability Enhancement Course – III			
BCS24358A	Data Analytics with Excel	BCS24358C	Functional Programming with Scala
BCS24358B	Data Visualization Techniques	BCS24358D	Project Management with Git



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Scheme of Teaching and Examinations 2025

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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	
1	PCC/ BSC	BMATS24401	Probability and Graph Theory	TD: MAT, PSB: MAT	3	0	0		03	50	50	100	3
2	IPCC	BCS24402	Object Oriented Programming with Java	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
3	PCC	BCS24403	Software Engineering	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
4	PCC	BCS24404	Design and Analysis of Algorithms	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
5	PCCL	BCSL24405	Algorithms Lab	TD: CSE, PSB: CSE	0	0	2	1	03	50	50	100	1
6	ETC/ PLC	BCS24406x	ETC/PLC	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
7	AEC/ SEC	BCS24457x	Ability Enhancement Course/ Skill Enhancement Course - IV	TD: CSE, PSB: CSE	If the course is Theory				01	50	50	100	1
					1	0	0	1					
					If the course is Lab				02				
					0	0	2	1					
8	BSC	BBOK24407	Biology For Engineers	TD / PSB: BT, CHE	1	0	0	1	01	50	50	100	1
9	UHV	BUHK24408	Universal Human Values	Any Department	1	0	0		01	50	50	100	1

10	MC	BNSK24459	National Service Scheme (NSS)	NSS coordinator	0	0	2		--	100	---	100	0
		BPEK24459	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24459	Yoga	Yoga Teacher									
		BLAK24459	Music	Music Teacher									
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.													
Emerging Technology Course /Programming Language Course (ETC/PLC)													
BCS24406A		Computational Data Science			BCS24406C		Augmented Reality and Virtual Reality						
BCS24406B		Data Analytics with R Programming			BCS24406D		Optimization Techniques						
Ability Enhancement Course / Skill Enhancement Course – IV													
BCS24457A		MATLAB Essentials			BCS24457C		Full Stack Framework (Frontend)						
BCS24457B		User Experience and Interface Design			BCS24457D		Technical Writing using LATEX						



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V 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	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	HSMC	BCS24501	Engineering Economics and Management (This course must be pertaining to economics and management of the concerned degree program. The course syllabus should have both economics and management topics and the course title should bear the word Management.)	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
2	IPCC	BCS24502	Computer Networks	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
3	PCC	BCS24503	Relational Database Management Systems	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
4	PCCL	BCSL24504	RDBMS Lab with Mini Project	TD: CSE, PSB: CSE	0	0	2	1	03	50	50	100	1
5	PEC	BCS24505x	Professional Elective Course - I	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
6	AEC/ SEC	BCS24556x	Ability Enhancement Course/ Skill Enhancement Course - V	TD: CSE, PSB: CSE	If the course is Theory				01	50	50	100	1
					1	0	0	1					
					If the course is Lab				02				
					0	0	2	1					
7	PROJ	BCSP24507	Mini Project	TD: CSE, PSB: CSE	0	0	4	1	03	100	---	100	2
8	AEC	BRMK24557	Research Methodology and IPR	Any Department	2	2	0	2	03	50	50	100	3

9	MC	BESK24508	Environmental Studies	TD: CV, PSB: CV	1	0	0		---	100	---	100	0
10	MC	BNSK24559	National Service Scheme (NSS)	NSS coordinator	0	0	2		---	100	---	100	0
		BPEK24559	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24559	Yoga	Yoga Teacher									
		BLAK24559	Music	Music Teacher									
Total										650	350	1000	20
Professional Elective Course - I													
BCS24505A		Natural Language Processing			BCS24505C		Design Patterns						
BCS24505B		Microcontrollers and Embedded systems			BCS24505D		Agile Technology						
Ability Enhancement Course / Skill Enhancement Course – V													
BCS24556A		Software design using plant UML			BCS24556C		Full Stack Framework (Backend)						
BCS24556B		Competitive Programming			BCS24556D		Automated Software Testing with Tosca						



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Scheme of Teaching and Examinations 2025

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VI 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/ Project	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BCS24601	Machine Learning	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
2	PCC	BCS24602	Cloud Computing and Big Data Analytics	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
3	PCC	BCS24603	Theory of Computation and Compiler Design	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
4	PEC	BCS24604x	Professional Elective Course - II	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
5	OEC	BCS24605x	Open Elective Course - I	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
6	PROJ	BCSP24606	Project Phase - I	TD: CSE, PSB: CSE	0	0	4	1	03	100	---	100	2
7	PCCL	BCSL24607	Mobile App Development using Flutter	TD: CSE, PSB: CSE	0	0	2	1	03	50	50	100	1
8	AEC/ SDC	BCS24657x	Ability Enhancement Course/ Skill Development Course VI	TD: CSE, PSB: CSE	If the course is Theory				01	50	50	100	1
					1	0	0	1					
					If the course is Lab				02				
					0	0	2	1					
9	IKS	BIKS24608	Indian Knowledge System	Any Dept.	1	0	0		---	100	---	100	0
10	MC	BNSK24659	National Service Scheme (NSS)	NSS coordinator	0	0	2		---	100	---	100	0
		BPEK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									

		BYOK24659	Yoga	Yoga Teacher										
		BLAK24659	Music	Music Teacher										
										Total	650	350	1000	20
Professional Elective Course - II														
BCS24604A	Computer Vision				BCS24604C	Adhoc Wireless Technology								
BCS24604B	Advanced Java Programming				BCS24604D	Enterprise Architecture								
Open Elective Course - I														
BCS24605A	MongoDB for Developers				BCS24605C	Cloud Computing								
BCS24605B	Data Visualization using Python				BCS24605D	Full Stack Framework – Frontend Tools								
Ability Enhancement Course / Skill Enhancement Course-V														
BCS24657A	Prototyping Internet of Smart Devices				BCS24657C	Software Development Approach with DevOps								
BCS24657B	Project Management with Jira				BCS24657D	Selenium Automation Testing								
Project Phase - I														
The objective of the Project work Phase - I is • To encourage independent learning and the innovative attitude of the students. • To develop interactive attitude, communication skills, organization, time management, and presentation skills. • To impart flexibility and adaptability. • To inspire team working. • To expand intellectual capacity, credibility, judgment and intuition. • To adhere to punctuality, setting and meeting deadlines. • To install responsibilities to oneself and others. • To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve ingroup discussion to present and exchange ideas.														
CIE procedure for Project Phase - I:														
(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.														
(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.														



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Scheme of Teaching and Examinations 2025

(with effect from AY 2025-26)

VII SEMESTER (Swappable VII and VIII 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	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BCS24701	Deep Learning and Generative AI	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
2	IPCC	BCS24702	Cryptography and Network Security	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
3	PCC	BCS24703	Cryptocurrency and Blockchain Technology	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
4	PEC	BCS24704x	Professional Elective Course / (Online) - III	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
5	OEC	BCS24705x	Open Elective Course / (Online) - II	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
6	PROJ	BCSP24706	Major Project Phase - II	TD: CSE, PSB: CSE	0	0	14	1	03	100	100	200	7
Total									350	350	700	24	

Professional Elective Course – III

BCS24704A	Soft Computing	BCS24704C	Quantum Computing
BCS24704B	NoSQL databases	BCS24704D	Multicore Architecture

Open Elective Course – II

BCS24705A	Computational Data Science	BCS24705C	Cyber Security and Ethical Hacking
BCS24705B	Data Visualization using Tableau and Power BI	BCS24705D	Full Stack Framework – Backend Tools

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **PEC:** Professional Elective Course, **OEC:** Open Elective Course **PR:** Project Work, **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.

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.

Project Phase – II

The objective of the Project work Phase II is

- To encourage independent learning and the innovative attitude of the students.
- To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- To impart flexibility and adaptability.
- To inspire team working.
- To expand intellectual capacity, credibility, judgment and intuition.
- To adhere to punctuality, setting and meeting deadlines.
- To install responsibilities to oneself and others.
- To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve ingroup discussion to present and exchange ideas.

CIE procedure for Project Phase II:

(1) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) **Interdisciplinary:** Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.



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VIII SEMESTER (Swappable VII and VIII 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	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PEC	BCS24801x	Professional Elective (Online Courses) - IV	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
2	PEC	BCS24802x	Professional Elective (Online Courses) - V	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
3	INT	BCS24803	Internship (Industry/Research) (14 - 20 weeks)	TD: CSE, PSB: CSE	0	0	12	-	03	100	100	200	10
										200	200	400	16
Professional Elective Course (Online courses) – IV													
BCS24801A		VTU online			BCS24801C	VTU online							
BCS24801B		VTU online			BCS24801D	VTU online							
Professional Elective Course (Online courses) – V													
BCS24802A		VTU online			BCS24802C	VTU online							
BCS24802B		VTU online			BCS24802D	VTU online							

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.

Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation center, 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 Internship is 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 flavor 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 and 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	BCS24601	Machine Learning	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
2	PCC	BCS24602	Cloud Computing and Big Data Analytics	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
3	PCC	BCS24603	Theory of Computation and Compiler Design	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
4	PEC	BCS24604x	Professional Elective Course - II	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
5	OEC	BCS24605x	Open Elective Course - I	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
6	PROJ	BCSP24606	Project Phase - I	TD: CSE, PSB: CSE	0	0	4	1	03	100	---	100	2
7	PCCL	BCSL24607	Mobile App Development using Flutter	TD: CSE, PSB: CSE	0	0	2	1	03	50	50	100	1
8	AEC/SDC	BCS24657x	Ability Enhancement Course/ Skill Development Course V	TD: CSE, PSB: CSE	If the course is Theory				01	50	50	100	1
					1	0	0	1					
					If the course is Lab				02				
					0	0	2	1					
9	IKS	BIKS24608	Indian Knowledge System		1	0	0		---	100	---	100	0
10	MC	BNSK24659	National Service Scheme (NSS)	NSS coordinator	0	0	2		---	100	---	100	0
		BPEK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK24659	Yoga	Yoga Teacher									
		BLAK24659	Liberal Arts	Prominent NGO									
Total									650	350	1000	20	

Professional Elective Course - II			
BCS24604A	Computer Vision	BCS24604C	Adhoc Wireless Technology
BCS24604B	Advanced Java Programming	BCS24604D	Enterprise Architecture
Open Elective Course - I			
BCS24605A	MongoDB for Developers	BCS24605C	Cloud Computing
BCS24605B	Data Visualization using Python	BCS24605D	Full Stack Framework – Frontend Tools
Ability Enhancement Course / Skill Enhancement Course-V			
BCS24657A	Prototyping Internet of Smart Devices	BCS24657C	Software Development Approach with DevOps
BCS24657B	Project Management with Jira	BCS24657D	Selenium Automation Testing
Project Phase - I			
The objective of the Project work Phase - I is • To encourage independent learning and the innovative attitude of the students. • To develop interactive attitude, communication skills, organization, time management, and presentation skills. • To impart flexibility and adaptability. • To inspire team working. • To expand intellectual capacity, credibility, judgment and intuition. • To adhere to punctuality, setting and meeting deadlines. • To install responsibilities to oneself and others. • To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve ingroup discussion to present and exchange ideas. CIE procedure for Project Phase - I: Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates. Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.			



GLOBAL ACADEMY OF TECHNOLOGY

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Department of Computer Science and Engineering

B.E CSE Program Accredited by NBA 2022 - 2025



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Scheme of Teaching and Examinations 2025

(with effect from AY 2025-26)

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

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	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPCC	BCS24701	Deep Learning and Generative AI (To be completed in 5 th /6 th semester)	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
2	IPCC	BCS24702	Cryptography and Network Security (To be completed in 5 th /6 th semester)	TD: CSE, PSB: CSE	3	0	2	4	03	50	50	100	4
3	PCC	BCS24703	Cryptocurrency and Blockchain Technology (To be completed in 5 th /6 th semester)	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
4	PEC	BCS24704x	Professional Elective Course / Online - III	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
5	OEC	BCS24705x	Open Elective Courses / Online - II	TD: CSE, PSB: CSE	3	0	0	3	01	50	50	100	3
1	PEC	BCS24801x	Professional Elective (MOOC Courses) - IV	TD: CSE, PSB: CSE	3	0	0	3	03	50	50	100	3
2	PEC	BCS24802x	Professional Elective (MOOC Courses) - V	TD: CSE, PSB: CSE	3	0	0	3	01	50	50	100	3
3	INT	BCS24803	Internship (Industry/Research) (02 semesters)	TD: CSE, PSB: CSE	0	0	12	-	03	100	100	200	10
4	PROJ	BCSP24804	Major Project II - outcome of training	TD: CSE, PSB: CSE	0	0	14	1	03	100	100	200	7
										550	550	1100	40