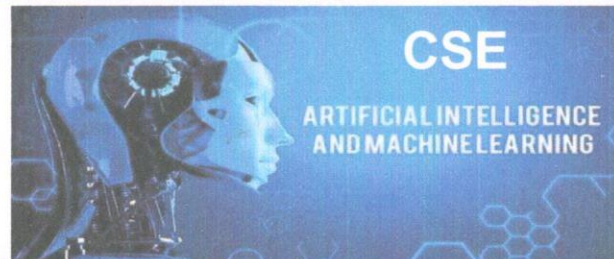




SCHEME



CSE

**ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING**

**Department of Computer Science and
Engineering (AI&ML)**

2024 SCHEME

**Computer Science and Engineering
(AI&ML)**

III – VIII Semester

GLOBAL ACADEMY OF TECHNOLOGY

(Autonomous Institution Affiliated to VTU, Belagavi.)

Accredited by NAAC with 'A' Grade,

NBA Accredited - CSE, ISE, ECE, EEE, ME, CV

Ideal Homes Township,

Raja Rajeshwari Nagar, Bengaluru-560098

HEAD OF THE DEPARTMENT
Dept. of Computer Science & Engineering (AI & ML)
Global Academy of Technology
Bengaluru- 560 098

R. Lang
12/06/25
Dean Academic
Global Academy of Technology,
Rajarajeshwari Nagar, Bengaluru-98



Global Academy of Technology
(An Autonomous Institution, affiliated to VTU, Belagavi, recognized by Karnataka and Approved by AICTE, New Delhi.)

B.E. in Computer Science and Engineering (AI&ML)
Scheme of Teaching and Examinations (AY 2024-25)



III SEMESTER

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	BMATS24301	Discrete Mathematics	TD: Maths PSB: Maths	3	0	0		03	50	50	100	3
2	IPCC	BCI24302	Operating Systems	TD: CI PSB: CI	3	0	2		03	50	50	100	4
3	IPCC	BCI24303	Digital Logic Design and Computer Organization	TD: CI PSB: CI	3	0	2		03	50	50	100	4
4	PCC	BCI24304	Data Structures and its Applications	TD: CI PSB: CI	3	0	0		03	50	50	100	3
5	PCCL	BCIL24305	Data Structures Laboratory	TD:CI PSB: CI	0	0	2		03	50	50	100	1
6	ETC/PLC	BCI24306x	ETC/PLC	TD: CI PSB: CI	3	0	0		03	50	50	100	3
7	UHV	BSCK24307	Social Connect and Responsibility	Any Department	0	0	2		01	100	---	100	1
8	AEC/ SEC	BCI24358x	Ability Enhancement Course/Skill Enhancement Course - III	TD:CI PSB:CI	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	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	Liberal Arts	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:** 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)			
BCI24306A	Unix Programming	BCI24306C	Optimization Technique
BCI24306B	Metric Spaces	BCI24306D	Algorithmic Game Theory
Ability Enhancement Course/Skill Enhancement Course – III			
BCI24358A(0:0:2)	Scala Programming	BCI24358C(1:0:0)	Ethics and Public policy for AI
BCI24358B(0:0:2)	Project Management with Git	BCI24358D(0:0:2)	Web Technologies


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IV SEMESTER

IV SEMESTER					Teaching Hours /Week				Examination				
Sl. 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	Credits
					L	T	P	S					
1	PCC/BSC	BMATS24401	Probability and Graph Theory	TD: Maths PSB: Maths	3	0	0		03	50	50	100	3
2	IPCC	BCI24402	Database Management System	TD: CI PSB: CI	3	0	2		03	50	50	100	4
3	PCC	BCI24403	Design and Analysis of Algorithms	TD: CI PSB: CI	3	0	0		03	50	50	100	3
4	PCC	BCI24404	Software Engineering	TD: CI PSB: CI	3	0	0		03	50	50	100	3
5	PCCL	BCIL24405	Design and Analysis of Algorithms Laboratory	TD: CI PSB: CI	0	0	2		03	50	50	100	1
6	ETC/PLC	BCI24406x	ETC/PLC	TD: CI PSB: CI	3	0	0		03	50	50	100	3
7	AEC/ SEC	BCI24457x	Ability Enhancement Course/Skill Enhancement Course- IV	TD: CI PSB: CI	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	TD / PSB: BT, CHE,	1	1	0		01	50	50	100	1
9	UHV	BUHK24408	Universal human values course	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	Liberal Arts	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.

Emerging Technology Course /Programming Language Course (ETC/PLC)			
BCI24406A	Dot Net Frameworks	BCI24406C	Object Oriented Programming with Java
BCI24406B	Theory of Computation	BCI24406D	System Software
Ability Enhancement Course / Skill Enhancement Course – IV			
BCI24457A (0:0:2)	Data Analytics with Excel	BCI24457C (0:0:2)	MERN Stack Development
BCI24457B (0:0:2)	Haskell Programming	BCI24457D (0:0:2)	Technical writing using LATEX


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