



Global Academy of Technology

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

B.E. in ARTIFICIAL INTELLEGINCE & MACHINE LEARNING Scheme of Teaching and Examinations (W.E.F AY 2024-2025)

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	BMATCS24301	Discrete Mathematics	TD: HS PSB: Maths	3	0	0		03	50	50	100	3	
2	IPCC	BAML24302	Operating System	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4	
3	IPCC	BAML24303	Digital Design & Computer Organization	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4	
4	PCC	BAML24304	Data Structures	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3	
5	PCCL	BAMLL24305	Data Structure Lab	TD: AIML PSB: AIML	0	0	2		03	50	50	100	1	
6	ETC/PLC	BAML24306X	ETC/PLC	TD: AIML PSB: AIML	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	BAML24358X	Ability Enhancement Course / Skill Enhancement Course - III	TD: AIML PSB: AIML	If the course is a Theory				01					
					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	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)

BAML24306A	Software Engineering	BAML24306C	Programming with C++
BAML24306B	Introduction to Internet of Things	BAML24306D	Web Application Frameworks

Ability Enhancement Course/Skill Enhancement Course – III

BAML24358A	UNIX Shell Programming	BAML24358C	Project Management with Git
BAML24358B	Ethics & Public Policy of AI	BAML24358D	Data Analytics with R



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Scheme of Teaching and Examinations (W.E.F AY 2024-2025)

IV 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
					L	T	P	S					
1	PCC/BSC	BMATCS24401	Statistics, Probability and Graph Theory	TD: HS PSB: Maths	3	0	0		03	50	50	100	3
2	IPCC	BAML24402	Design & Analysis of Algorithms	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
3	PCC	BAML24403	Machine Learning Foundations & Techniques	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
4	PCC	BAML24404	Data Base Management System	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
5	PCCL	BAMLL24405	Data Base Management System Lab	TD: AIML PSB: AIML	0	0	2		03	50	50	100	1
6	ETC/PLC	BAML24406X	ETC/PLC	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
7	AEC/ SEC	BAML24457X	Ability Enhancement Course/Skill Enhancement Course- IV	TD and PSB: Concerned department	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	0	0		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	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, **SDC:** Skill Development 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

BAML24457A	AI Tools, frameworks & its Application -I	BAML24457C	PHP Programming
BAML24457B	Programming with Scala	BAML24457D	Full Stack Development using MERN
Emerging Technology Course/Programming Language Course (ETC/PLC)			
BAML24406A	Optimization Technique	BAML24406C	Object Oriented Programming with JAVA
BAML24406B	Foundation of Data Science	BAML24406D	Algorithmic Game theory



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Scheme of Teaching and Examinations (W.E.F AY 2024-2025)

V 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	HSMC	BAML24501	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: PSB:	3	0	0		03	50	50	100	3
2	IPCC	BAML24502	Machine Learning Practices	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
3	PCC	BAML24503	Big data Analytics	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
4	PCCL	BAMLL24504	Big data Analytics LAB	TD: AIML PSB: AIML	0	0	2		03	50	50	100	1
5	PEC	BAML24505x	Professional Elective Course-I	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
6	AEC/ SEC	BAML24556x	Ability Enhancement Course/Skill Enhancement Course- V	TD: AIML PSB: AIML	If the course is Theory				01	50	50	100	1
					1	0	0						
					If the course is Lab				02				
					0	0	2						
7	PROJ	BAML24507	Mini Project	TD: AIML PSB: AIML	0	0	4		03	100	-	100	2
8	AEC	BRMK24557	Research Methodology and IPR	TD: AIML PSB: AIML	2	2	0		03	50	50	100	3
9	MC	BESK24508	Environmental Studies	TD: PSB:	1	0	0		01	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	Liberal Arts	Prominent NGO									
Total									650	350	1000	20	

Professional Elective Course-I			
BAML24505A	Cloud Computing	BAML24505C	Time series Analysis
BAML24505B	Computer Networks & Security	BAML24505D	Sensors & Systems
Ability Enhancement Course/Skill Enhancement Course- V			
BAML24556A	UI/UX	BAML24556C	Mobile Application Development
BAML24556B	MongoDB	BAML24556D	Data Visualization using Tableau



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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	
					L	T	P	S					
1	IPCC	BAML24601	Natural Language Processing	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
2	PCC	BAML24602	Deep Learning Principles & Practices	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
3	PCC	BAML24603	AI and its Applications.	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
4	PEC	BAML24604x	Professional Elective Course-II	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
5	OEC	BAML24605x	Open Elective Course-I	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
6	PROJ	BAMLP24606	Project Phase-I	TD: AIML PSB: AIML	0	0	4		03	100	--	100	2
7	PCCL	BAMLL24607	Deep Learning Lab	TD: AIML PSB: AIML	0	0	2		03	50	50	100	1
8	AEC/SDC	BAML24657x	Ability Enhancement Course/Skill Development Course-VI (Online)	TD: AIML PSB: AIML	If the course is offered as a Theory				01	50	50	100	1
					1	0	0						
					If course is offered as a practical								
					0	0	2						
9	IKS	BIKS24608	Indian Knowledge System		1	0	0		01	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									
11	NCMC	BDMP24609	Disaster Management and Preparedness	TD-CV/PSB-CV	2	0	0			100	---	100	0
									Total	750	350	1100	20

Professional Elective Course-II			
BAML24604A	Parallel & Distributed Computing	BAML24604C	Large Language Model
BAML24604B	Cryptography	BAML24604D	Augment Reality and Virtual Reality
Open Elective Course-I			
BAML24605A	Next-Gen Database Technology using MongoDB	BAML24605C	Introduction to Machine Learning
BAML24605B	Foundation of Data Science	BAML24605D	JavaScript Programming
Ability Enhancement Course / Skill Development Course-VI			
BAML24657A	AI Tools, frameworks & its Application -II	BAML24657C	Business Intelligence using PowerBI
BAML24657B	Explainable AI	BAML24657D	Generative AI



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Scheme of Teaching and Examinations (W.E.F AY 2024-2025)

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				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	IPCC	BAML24701	Image Analytics with Computer Vision	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
2	IPCC	BAML24702	Advance Natural Language Processing	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
3	PCC	BAML24703	Quantum Computing	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
4	PEC	BAML24704x	Professional Elective Course / (Online)- III	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
5	OEC	BAML24705x	Open Elective Course /(online)-II	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
6	PROJ	BAMLP24706	Major Project Phase-II	TD: AIML PSB: AIML	0	0	14		03	100	100	200	7
										350	350	700	24

Professional Elective Course-III

BAML24704A	Data Mining & Data warehousing	BAML24704C	Reinforcement Learning
BAML24704B	Data Security & Privacy	BAML24704D	Robotics

Open Elective Course-II

BAML24705A	Python Libraries for AI&ML	BAML24705C	Introduction to Sensor and IoT
BAML24705B	Web designing Tools & Frameworks	BAML24705D	Information Security

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 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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Scheme of Teaching and Examinations (W.E.F AY 2024-2025)

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
					L	T	P	S					
1	PEC	BAML24801x	Professional Elective (Online Courses)- IV	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
2	PEC	BAML24802x	Professional Elective (Online Courses)- V	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
3	INT	BAML24803	Internship (Industry/Research) (14 - 20 weeks)	TD: AIML PSB: AIML	0	0	12		03	100	100	200	10
										200	200	400	16

Professional Elective Course (Online courses)-IV

BAML24801A	High Performance Computing	BAML24801C	AI for Robotics
BAML24801B	Block Chain and its Applications	BAML24801D	Foundation of Cyber Physical System

Professional Elective Course (Online courses)-V

BAML24802A	Introduction to Self-Driving Cars	BAML24802C	Innovation, Business Models and Entrepreneurship
BAML24802B	Information Retrieval	BAML24802D	Soft Computing

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.

Note: The NPTEL courses listed are indicative and subject to availability on the SWAYAM platform during the concerned semester. If a course is not offered in the given duration, an equivalent NPTEL course in the same domain may be selected with the approval of the department

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	
					L	T	P	S					
1	IPCC	BAML24601	Natural Language Processing	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
2	PCC	BAML24602	Deep Learning Principles & Practices	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
3	PCC	BAML24603	AI and its Applications.	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
4	PEC	BAML24604x	Professional Elective Course-II	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
5	OEC	BAML24605x	Open Elective Course-I	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
6	PROJ	BAML24606	Project Phase-I	TD: AIML PSB: AIML	0	0	4		03	100	--	100	2
7	PCCL	BAMLL24607	Deep Learning Lab	TD: AIML PSB: AIML	0	0	2		03	50	50	100	1
8	AEC/SDC	BAML24657x	Ability Enhancement Course/Skill Development Course-VI	TD: AIML PSB: AIML	If the course is offered as a Theory				01	50	50	100	1
					1	0	0						
					If course is offered as a practical				02				
					0	0	2						
9	IKS	BNSK24608	Indian Knowledge System	Any Department	1	0	0		01	100	--	100	0
10	MC	BPEK24659	National Service Scheme (NSS)	NSS coordinator	0	0	2	--	---	100	---	100	0
		BYOK24659	Physical Education (PE) (Sports and Athletics)	Physical Education Director									

	BLAK24659	Yoga	Yoga Teacher										
	BIKS24659	Liberal Arts	Prominent NGO										
Total										650	350	1000	20

Professional Elective Course-II			
BAML24604A	Parallel & Distributed Computing	BAML24604C	Large Language Model
BAML24604B	Cryptography	BAML24604D	Augment Reality and Virtual Reality
Open Elective Course-I			
BAML24605A	Next-Gen Database Technology using MongoDB	BAML24605C	Introduction to Machine Learning
BAML24605B	Foundation of Data Science	BAML24605D	JavaScript Programming
Ability Enhancement Course / Skill Development Course-VI			
BAML24657A	AI Tools, frameworks & its Application -II	BAML24657C	Business Intelligence using PowerBI
BAML24657B	Explainable AI	BAML24657D	Generative AI



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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	Teaching Hours /Week				Examination			Credits	
					Theory Lect	Tutoria	Practic al/	SDA	Durati on in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P	S					
1	IPCC	BAML24701	Image Analytics with Computer Vision /To be completed in 5 th /6 th semester	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
2	IPCC	BAML24702	Advance Natural Language Processing /To be completed in 5 th /6 th semester	TD: AIML PSB: AIML	3	0	2		03	50	50	100	4
3	PCC	BAML24703	Quantum Computing / To be completed in the 6 th semester	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
4	PEC	BAML24704x	Professional Elective Course/Online III	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
5	OEC	BAML24705x	Open Elective Courses/Online II	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
1	PEC	BAML24801x	Professional Elective (MOOC Courses) IV	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
2	PEC	BAML24802x	Professional Elective (MOOC Courses) V	TD: AIML PSB: AIML	3	0	0		03	50	50	100	3
3	INT	BAML24803	Internship (Industry/Research) (02 semesters)	TD: AIML PSB: AIML	0	0	12		03	100	100	200	10
4	PROJ	BAMLP24804	Major Project II - outcome of training	TD: AIML PSB: AIML	0	0	14		03	100	100	200	7
										550	550	1100	40

Professional Elective Course-III			
BAML24704A	Data Mining & Data warehousing	BAML24704C	Reinforcement Learning
BAML24704B	Data Security & Privacy	BAML24704D	Robotics
Open Elective Course-II			
BAML24705A	Python Libraries for AI&ML	BAML24705C	Introduction to Sensor and IoT
BAML24705B	Web designing Tools & Frameworks	BAML24705D	Information Security

Professional Elective Course (Online courses)-IV			
BAML24801A	High Performance Computing	BAML24801C	AI for Robotics
BAML24801B	Block Chain and its Applications	BAML24801D	Foundation of Cyber Physical System
Professional Elective Course (Online courses)-V			
BAML24802A	Introduction to Self-Driving Cars	BAML24802C	Innovation, Business Models and Entrepreneurship
BAML24802B	Information Retrieval	BAML24802D	Soft Computing