TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology

Mohgaon, Wardha Road, Nagpur - 441 108

An Autonomous Institute

Department
of
Artificial Intelligence and Machine Learning

B.Tech. Artificial Intelligence and Machine Learning

Teaching Scheme

Considering

National Education Policy 2020

From

Academic Year 2025-26

Vision of Institute

To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

Mission of Institute

1. To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
2. To provide facilities and services to meet the challenges of Industry and Society.
3. To facilitate socially responsive research, innovation and entrepreneurship.
4. To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

Vision of the Department

"To emerge as a learning Center of Excellence in the National Ethos in the domains of Artificial Intelligence & Machine Learning."

Mission of the Department

- To provide quality technical education that equips students with practical skills and knowledge aligned with current industry standards and emerging technologies.
- To address societal and industrial challenges by fostering collaboration between academia, industry, and communities for inclusive development.
- To nurture innovation and entrepreneurial thinking by encouraging creativity, problem-solving, and the development of impactful solutions.
- To promote a culture of research, critical thinking, and continuous learning to empowers, stakeholders to adapt and thrive in a dynamic global landscape.

Program Education Objectives (PEO)

PEO 1: Develop strong analytical, predictive, and decision-making skills to formulate and solve complex problems in intelligent computing and interdisciplinary domains

PEO 2: Pursue advanced studies, engage in research, and drive innovation in Machine Learning and related fields, contributing to technological and scientific progress.

PEO 3: Apply technical knowledge with a commitment to ethical standards and professional integrity, ensuring stakeholder satisfaction and making a positive societal impact.

PEO 4: Embrace lifelong learning while upholding values of professional ethics, social responsibility, and environmental sustainability.

Program Outcomes (PO)

PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/ components/ processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

Program Specific Outcomes (PSO)

PSO 1: Develop and apply AI/ML competencies using domains such as Computer Vision, Deep Learning, and MLOps to address real-world challenges across various sectors.

PSO 2: Design and implement intelligent solutions by leveraging Natural Language Processing, Reinforcement Learning, and Robotics.

PSO 3: Adopt engineering best practices and industry exposure to develop practical software systems and engage in impactful research activities.

Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur-441108

Accredited with NAAC A+ Grade Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to RTM Nagpur University)

Scheme of Instruction for First Year of B.Tech. (UG)

Programme Group-A Semester– I CSE/IT/DS/ECE/AIML

Mandatory03-Weeks Induction Program in the First Semester for every student

SN	Sem	Type	BoS/ Deptt	Sub. Code	Subject	T/P	Contact Hours				Credits	%Weightage			ESE Duration Hours
							L	SL	P	Hrs		CT/IA	CA	ESE	
FIRST SEMESTER (GROUP-A)															
1	1	**BSC**	**S&H**	BSH31101	Algebra and Calculus	T	4	2	0	6	4	30	10	60	3
2	1	**BSC**	**S&H**	BSH31104	Chemical Process in Engineering	T	3	2	0	5	3	30	10	60	3
3	1	**BSC**	**S&H**	BSH31105	Chemical Process in Engineering -Lab	P	0	0	2	2	1	25	-	25	-
4	1	**ESC**	**CE/BT**	BCE31101/BBT31101	Engineering Mechanics /Fundamentals of Biotechnology	T	3	2	0	5	3	30	10	60	3
5	1	**ESC**	**ME**	BEE31101	Engineering Workshop	P	0	0	2	2	1	25	-	25	-
6	1	**BSC**	**S&H**	BSH31X08	Introduction to Indian Knowledge System	T	2	2	0	0	2	14	6	30	2
7	1	**ESC**	**ME**	BME31X01	Engineering and Computer Graphics Lab	P	0	0	2	2	1	25	-	25	-
8	1	**PCC**	**EE/ME /CE/AE /BT**	BEE31101/BME31102/BCE31102/BAE31101/BBT31102	Electrical Wiring and Installations / Computer Aided Design/ CAD for Civil Engineers/ CAD for Aircraft Component/ Biotechnological Skill Lab	P	0	0	4	4	2	25	-	25	-
9	1	**VSEC**	**CS**	BCS31102	Web Designing	P	0	2	4	4	2	25	-	25	-
10	1	**CC**	**S&H**	BSH31X09	Business Communication	P		0	4	4	2	25	-	25	-
TOTAL FIRST SEM							**12**	**10**	**18**	**34**	**21**				
SECOND SEMESTER (GROUP-A)															
1	2	**BSC**	**S&H**	BSH31201	Differential Equation and Statistics	T	4	2	0	6	4	30	10	60	3
2	2	**BSC**	**S&H**	BSH31208	Quantum Physics & Optics	T	3	2	0	5	3	30	10	60	3
3	2	**BSC**	**S&H**	BSH31209	Quantum Physics & Optics-Lab	P	0	0	2	2	1	25	-	25	-
4	2	**ESC**	**EE**	BEE31202	Principles of Electrical Engineering	T	3	2	0	5	3	30	10	60	3
5	2	**ESC**	**EE**	BEE31203	Principles of Electrical Engineering-Lab	P	0	0	2	2	1	25	-	25	-
6	2	**ESC**	**IT**	BIT31103	Programming for Problem Solving using 'C'	T	3	2	0	5	3	30	10	60	3
7	2	**ESC**	**IT**	BIT31104	Programming for Problem Solving using 'C'-Lab	P	0	0	2	2	1	25	-	25	-
8	2	**VSEC**	**EE/ME /CE/AE /BT**	BEE31204/BME31201/BCE31201/ AE31201/BBT31201	Power SIM / CNC Machine and Programing / Building Maintenance Lab/ Basics of Aircraft Design/Environmental Biotechnology Lab	P	0	0	4	4	2	25	-	25	-
9	2	**AEC**	**S&H**	BSH31X04	Communication for Personality Development-Lab	P	0	1	4	5	2	25	-	25	-
10	2	**CC**	**S&H**	BSH31X05	Integrated Personality Development Course-I	P	0	0	4	4	2	25	-	25	-
TOTALSECONDSEM							**13**	**09**	**18**	**40**	**22**				

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses	Multidisciplinary course	VSEC (Skill Course)	Humanities Social Science &Management		Experiential Learning Courses	CC (Co-Curricular Courses)
					AEC(Ability Enhancement Course)	IKS(Indian Knowledge System)		
Credits SEM-I	08/05	02	--	02	--	02	--	02
Credits SEM-II	08/08	--	--	02	02	--	--	02
Cumulative Sum	16/13	02	--	04	02	02	--	04

PROGRESSIVETOTALCREDITS:21+22=43

				Aug,2023	1.00	Applicable forAY2023-24 Onwards
Chairperson	Dean Academics	Vice Principal	Principal	Date of Release	Version	

Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur

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SCHEME OF INSTRUCTIONS & SYLLABI

Programme: Artificial Intelligence and Machine Learning

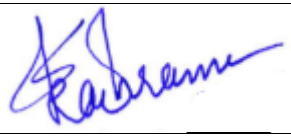
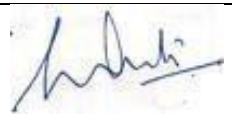
Scheme of Instructions: Second Year B.Tech. in Artificial Intelligence and Machine Learning

Semester--III

Sr. No.	Course Category	Course Code	Course Title	T/P	Contact Hours			Credits	Exam Scheme			ESE Duration (Hours)	Total Marks
					L	P	Hrs.		CT/IA	CA	ESE		
1	**PCC**	BAI12301	Artificial Intelligence	T	3	-	3	3	30	10	60	3	100
2	**PCC**	BAI12302	Advanced Python Programming	T	3	-	3	3	30	10	60	3	100
3	**PCC**	BAI12303	Data Structures & Algorithms	T	2	-	2	2	14	6	30	2	50
4	**OEC**	BXXXXXX	Open Elective- I	T	4	-	4	4	30	10	60	3	100
5	**VEC**	BSH32308	Ethics in Artificial Intelligence	T	2	-	2	2	14	6	30	2	50
6	**MDM**	BSH32303	Numerical Methods & Statistical Analysis	T	2	-	2	2	14	6	30	2	50
7	**HSSM**	BBA32302	Entrepreneurship and Skill Development	T	2	-	2	2	14	6	30	2	50
8	**PCC**	BAI12304	Advanced Python Programming Lab	P	-	2	2	1	-	25	25	2	50
9	**PCC**	BAI12305	Data Structures & Algorithms	P	-	2	2	1	-	25	25	2	50
10	**CEP**	BAI12306	Community Project	P	-	4	4	2	-	50	-	2	50
			Total	-	**18**	**8**	**26**	**22**	**146**	**154**	**350**	**23**	**650**

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective Course)	Multi-disciplinary courses	VSEC (Skill Course)	VEC (Value Education Courses)	Humanities Social Science & Management		Experiential Learning Courses	CC (Liberal Learning Courses)
								AEC (Ability Enhancement Course)	IKS (Indian Knowledge System)		
Credits	-	10	-	4	2	-	2	2		2	-
Cumulative Sum	16/13	12	-	4	2	4	2	6		2	4

PROGRESSIVE TOTAL CREDITS: 43+22=65

				June, 2025	1.00	Applicable for AY 2025-26
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SCHEME OF INSTRUCTIONS & SYLLABI

Programme: Artificial Intelligence and Machine Learning

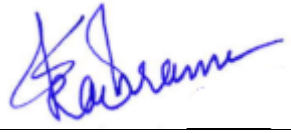
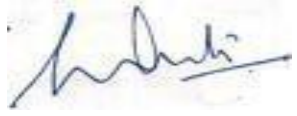
Scheme of Instructions: Second Year B.Tech. in Artificial Intelligence and Machine Learning

Semester–IV

Sr. No.	Course Category	Course Code	Course Title	T/P	Contact Hours			Credits	Exam Scheme			ESE Duration (Hours)	Total Marks
					L	P	Hrs.		CT/IA	CA	ESE		
1	**PCC**	BAI12401	Database Management System	T	3	-	3	3	30	10	60	3	100
2	**PCC**	BAI12402	Software Engineering & Project Management	T	3	-	3	3	30	10	60	3	100
3	**PCC**	BAI12403	Operating System	T	2	-	2	2	14	6	30	2	50
4	**OEC**	BXXXXXX	Open Elective- II	T	2	-	2	2	14	6	30	2	50
5	**MDM**	BSH32401	Mathematics in Artificial Intelligence	T	2	-	2	2	14	6	30	2	50
6	**VAC**	BSH32403	Environmental Science and Sustainability	T	2	-	2	2	14	6	30	2	50
7	**HSSM**	BBA32401	Managerial Economics	T	2	-	2	2	14	6	30	2	50
8	**PCC**	BAI12404	Operating System Lab	P	-	2	-	1	-	25	25	2	50
9	**PCC**	BAI12405	Database Management System Lab	P	-	2	-	1	-	25	25	2	50
10	**AEC**	BSH32404	Leadership and Team Dynamics	P	-	4	-	2	-	25	25	2	50
11	**VSEC**	BAI12406	Data Analytics	P	-	4	-	2	-	25	25	2	50
			Total	-	**16**	**12**	**16**	**22**	**130**	**150**	**370**	**24**	**650**

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective Course)	Multi-disciplinary courses	VSEC (Skill Course)	VEC (Value Education Courses)	Humanities Social Science & Management		Experiential Learning Courses	CC (Liberal Learning Courses)	VAC (Value added Course)
								AEC (Ability Enhancement Course)	IKS (Indian Knowledge System)			
Credits		10	-	2	2	2	-	4		-	-	2
Cumulative Sum	16/13	22	-	6	4	6	2	10		2	4	2

PROGRESSIVE TOTAL CREDITS: 65+22=87

				June, 2025	1.00	Applicable for AY 2025-26
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SCHEME OF INSTRUCTIONS & SYLLABI

Programme: Artificial Intelligence and Machine Learning

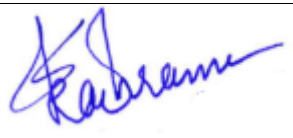
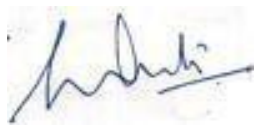
Scheme of Instructions: Third Year B.Tech. in Artificial Intelligence and Machine Learning

Semester–V

Sr. No.	Course Category	Course Code	Course Title	T/P	Contact Hours			Credits	Exam Scheme			ESE Duration (Hours)	Total Marks
					L	P	Hrs.		CT/IA	CA	ESE		
1	**PCC**	BAI13501	Advanced Machine Learning	T	3	-	3	3	30	10	60	3	100
2	**PCC**	BAI13502	Advanced Machine Learning Lab	P	-	2	2	1	-	25	25	2	50
3	**PCC**	BAI13503	Computer Networks	T	3	-	3	3	30	10	60	3	100
4	**PCC**	BAI13504	Computer Networks Lab	P	-	2	2	1	-	25	25	2	50
5	**PCC**	BAI13505	Theory of Computation	T	3	-	3	3	30	10	60	3	100
6	**PEC**	BAI13506-09	Professional Elective–I	T	4	-	4	4	30	10	60	3	100
7	**MDM**	BEC33510	Microprocessor and Microcontroller	T	4	-	4	4	30	10	60	3	100
8	**OEC**	BXXXXXX	Open Elective-III	T	2	-	2	2	14	06	30	2	50
9	**Project**	BAI13510	Micro Project	P	-	2	2	1	-	25	25	2	50
			Total	-	**19**	**6**	**25**	**22**	**164**	**131**	**405**	**23**	**700**

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective Course)	Multi-disciplinary courses	VSEC (Skill Course)	VEC (Value Education Courses)	Humanities Social Science & Management		Experiential Learning Courses	CC (Liberal Learning Courses)	VAC (Value added Course)
								AEC (Ability Enhancement Course)	IKS (Indian Knowledge System)			
Credits	-	11	4	2	4	-	-	-		1	-	-
Cumulative Sum	16/13	33	4	8	8	6	2	10		3	4	2

PROGRESSIVE TOTAL CREDITS: 87+22=109

				June, 2025	1.00	Applicable for AY 2025-26
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SCHEME OF INSTRUCTIONS & SYLLABI

Programme: Artificial Intelligence and Machine Learning

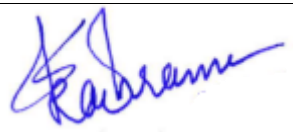
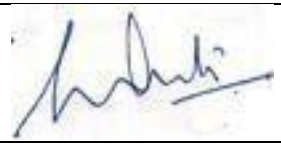
Scheme of Instructions: Third Year B.Tech. in Artificial Intelligence and Machine Learning

Semester–VI

Sr. No.	Course Category	Course Code	Course Title	T/P	Contact Hours			Credits	Exam Scheme			ESE Duration (Hours)	Total Marks
					L	P	Hrs.		CT/IA	CA	ESE		
1	**PCC**	BAI13601	Advanced Deep Learning	T	3	-	3	3	30	10	60	3	100
2	**PCC**	BAI13602	Advanced Deep Learning Lab	P	-	2	2	1	-	25	25	2	50
3	**PCC**	BAI13603	Visual Computing	T	3	-	3	3	30	10	60	3	100
4	**PCC**	BAI13604	Visual Computing Lab	P	-	2	2	1	-	25	25	2	50
5	**VSEC**	BXXXXXX	Internet of Things Lab (Mini Project)	T	-	4	4	2	-	50	50	2	100
6	**PEC**	BAI13605-08	Professional Elective–II	T	4	-	4	4	30	10	60	3	100
7	**PEC**	BAI13609-12	Professional Elective–III	T	4	-	4	4	30	10	60	3	100
8	**MDM**	BEC33611	Internet of Things	T	2	-	2	2	14	06	30	2	50
			Total	-	**16**	**8**	**24**	**20**	**134**	**146**	**370**	**20**	**650**

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective Course)	Multi-disciplinary courses	VSEC (Skill Course)	VEC (Value Education Courses)	Humanities Social Science & Management		Experiential Learning Courses	CC (Liberal Learning Courses)	VAC (Value added Course)
								AEC (Ability Enhancement Course)	IKS (Indian Knowledge System)			
Credits	-	8	8	-	2	2	-	-		-	-	-
Cumulative Sum	16/13	41	12	8	10	8	2	10		3	4	2

PROGRESSIVE TOTAL CREDITS: 109+20=129

				June, 2025	1.00	Applicable for AY 2025-26
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SCHEME OF INSTRUCTIONS & SYLLABI

Programme: Artificial Intelligence and Machine Learning

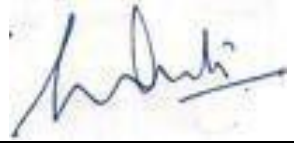
Scheme of Instructions: Final Year B.Tech. in Artificial Intelligence and Machine Learning

Semester–VII

Sr. No.	Course Category	Course Code	Course Title	T/P	Contact Hours			Credits	Exam Scheme			ESE Duration (Hours)	Total Marks
					L	P	Hrs.		CT/IA	CA	ESE		
1	**PCC**	BAI14701	MOOCs Course	T	4	-	4	4	-	25	75	3	100
2	**PEC**	BAI14702-05	Professional Elective-IV MOOCs	T	4	-	4	4	-	25	75	3	100
3	**Project**	BAI14706	Internship/ Capstone Project	P	-	24	24	12	-	150	150	3	300
			Total	-	**8**	**24**	**32**	**20**	**-**	**200**	**300**	**9**	**500**

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective Course)	Multi-disciplinary courses	VSEC (Skill Course)	VEC (Value Education Courses)	Humanities Social Science & Management		Experiential Learning Courses	CC (Liberal Learning Courses)	VAC (Value added Course)
								AEC (Ability Enhancement Course)	IKS (Indian Knowledge System)			
Credits	-	4	4	-	-	-	-	-		12	-	-
Cumulative Sum	16/13	45	16	8	10	8	2	10		15	4	2

PROGRESSIVE TOTAL CREDITS: 129+20=149

				June, 2025	1.00	Applicable for AY 2025-26
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SCHEME OF INSTRUCTIONS & SYLLABI

Programme: Artificial Intelligence and Machine Learning

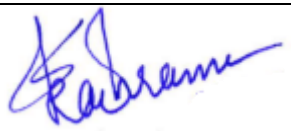
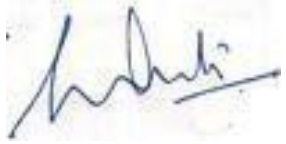
Scheme of Instructions: Final Year B.Tech. in Artificial Intelligence and Machine Learning

Semester–VIII

Sr. No.	Course Category	Course Code	Course Title	T/P	Contact Hours			Credits	Exam Scheme			ESE Duration (Hours)	Total Marks
					L	P	Hrs.		CT/IA	CA	ESE		
1	**PCC**	BAI14801	Advanced NLP Techniques	T	3	-	3	3	30	10	60	3	100
2	**PCC**	BAI14802	Advanced NLP Techniques Lab	P	-	2	2	1	-	25	25	2	50
3	**RM**	BAI14803	Research Methodology	T	4	-	4	4	30	10	60	3	100
4	**Project**	BAI14804	Project	P	-	8	8	4	-	50	50	2	100
5	**PEC**	BAI14805-08	Professional Elective - V	T	4	-	4	4	30	10	60	3	100
6	**MDM**	BEC34811	Robotics and Intelligent Systems	T	4	-	4	4	30	10	60	3	100
			Total	-	**15**	**10**	**25**	**20**	**120**	**115**	**315**	**16**	**550**

Course Category	BSC/ESC (Basic Science Course/Engineering Science Course.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective Course)	Multi-disciplinary courses	VSEC (Skill Course)	VEC (Value Education Courses)	Humanities Social Science & Management		Experiential Learning Courses	CC (Liberal Learning Courses)	VAC (Value added Course)
								AEC (Ability Enhancement Course)	IKS (Indian Knowledge System)			
Credits		4	4	-	4	-	-	-		8	-	-
Cumulative Sum	16/13	49	20	8	14	8	2	10		23	4	2

PROGRESSIVE TOTAL CREDITS: 149+20=169

				June, 2025	1.00	Applicable for AY 2025-26
Chairperson	Dean Academics	Vice-Principal	Principal	Date of Release	Version	

Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur

(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)

SCHEME OF INSTRUCTIONS & SYLLABI

Program: Artificial Intelligence and Machine Learning

List of Electives offered by

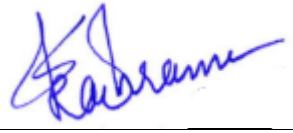
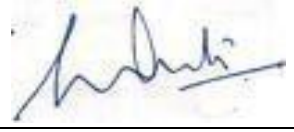
Artificial Intelligence and Machine Learning

Track Name	Course Code	Professional Elective- I Semester V	Course Code	Professional Elective- II Semester VI	Course Code	Professional Elective- III Semester VI
Intelligent Systems	BAI13506	Soft Computing	BAI13605	Intelligent Decision Systems	BAI13609	Enterprise AI Solutions (Generative AI with ERP + Chat boat)
Interactive and Immersive Technologies with Cloud Integration	BAI13507	Computer Graphics	BAI13606	Human-Computer Interaction (HCI)	BAI13610	Fundamentals of augmented realities
Data Engineering	BAI13508	Next generation databases	BAI13607	No SQL using MongoDB	BAI13611	Big data Analytics
Information Security	BAI13509	Information Security Fundamentals	BAI13608	Cryptography and Network Security	BAI13612	Web Application Security

Course Code	Professional Elective- IV Semester VII	Course Code	Professional Elective-V Semester VIII
BAI14702	Graph Neural Networks (GNNs)	BAI14805	Cognitive Intelligence
BAI14703	Cloud-Based AR/VR Applications	BAI14806	AWS Cloud Computing
BAI14704	Block chain Technology	BAI14807	Predictive Analytics
BAI14705	Blockchain Security	BAI14808	Biometric Security

List of Open Electives offered by Artificial Intelligence and Machine Learning

Course Code	Subject
BAI12307 (OE-I)	Data Visualization
BAI12407 (OE-II)	Big Data Analytics
BAI13510 (OE-III)	Fundamentals of Machine Learning

				June, 2025	1.00	Applicable for AY 2025-26
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