



GALGOTIAS UNIVERSITY



School of Skill Sciences & Entrepreneurship

Program

Bachelor of Technology in Artificial Intelligence

Curriculum

First Semester B. Tech AI							
S. No.	Course Code	Course Title	Credit Structure				Total Credits
			L	T	P	S	C
1		Mathematics for AI	1	1	1	1	4
2		Python Programming	1	1	1	1	4
3		Data Structure and Algorithms	1	1	1	1	4
4		Foundations of Artificial Intelligence	1	1	0	1	3
5		Fundamentals of Entrepreneurship	1	0	0	1	2
6		Environment and Sustainability studies	1	0	0	1	2
7		G-PULSE-I	0	0	0	1	1
8		GIG Internship	0	0	0	1	1
							21
Second Semester B. Tech AI							
1		Systems for AI	1	0	1	1	3
2		Data Analytics	1	1	1	1	4
3		Web & API Development	1	0	1	1	3
4		Machine Learning	1	1	1	1	4
5		Entrepreneurship and Innovation	1	0	0	1	2
6		G-PULSE-II	0	0	0	1	1
7		GIG Internship	0	0	0	1	1
8		Internship-I	0	0	0	8	8
							26
Third Semester B. Tech AI							
1		Computer Vision	1	1	1	1	4
2		Natural Language Processing	1	1	1	1	4
3		Edge AI & Embedded Intelligence	1	1	0	1	3
4		Deep Learning	1	1	1	1	4
5		Entrepreneurial Strategic approach	0	0	0	2	2
6		Indian Knowledge Systems	1	0	0	1	2
7		G-PULSE-III	0	0	0	1	1
8		GIG Internship	0	0	0	1	1
							21
Fourth Semester B. Tech AI							
1		Cloud Computing & Distributed AI	1	1	1	1	4
2		Generative AI & LLMs	1	1	1	1	4
3		AI Ethics and Governance	1	0	1	1	3
4		AI Deployment and MLOps	1	0	1	1	3
5		Entrepreneurship and Family Business	0	0	0	2	2
6		G-PULSE-IV	0	0	0	1	1
7		GIG Internship	0	0	0	1	1
8		Internship-II	0	0	0	8	8
							26
Fifth Semester B. Tech AI							
1		Big Data Analytics	1	1	1	1	4
2		Agentic AI	1	1	1	1	4
3		AI System Testing and Validation	1	1	1	1	4
4		Domain Elective-I	1	1	0	1	3
5		Open Elective-I	1	1	0	1	3
6		Startup Operations, Marketing and growth	0	0	0	2	2
7		G-PULSE-V	0	0	0	1	1
8		GIG Internship	0	0	0	1	1
							22

Sixth Semester B. Tech AI								
1		Multimodal AI Systems	1	1	1	1	4	
2		AutoML and Low-Code AI	1	1	1	1	4	
3		AI Product Design	1	0	1	1	3	
4		Domain Elective-II	1	0	1	1	3	
5		Open Elective-II	1	1	0	1	3	
6		G-PULSE-VI	0	0	0	1	1	
7		GIG Internship	0	0	0	1	1	
8		Internship-III	0	0	0	8	8	
							27	
Seventh Semester B. Tech AI								
1		Human-AI interaction	1	1	1	1	4	
2		Domain Elective-III	1	1	1	1	4	
3		Open Elective-III	1	0	1	1	3	
4		Capstone Project	0	0	2	6	8	
5		G-PULSE-VII	0	0	0	1	1	
6		GIG Internship	0	0	0	1	1	
							21	
Eighth Semester B. Tech AI								
1		Internship-IV	0	0	0	20	20	

Total Credits Semester Wise = 21 + 26 + 21 + 26 + 22 + 27 + 21 + 20 = 184 Credits

Domain & Open Electives:

	Domain Elective-I		Open Elective-I
	Secure and Responsible AI		Digital Media and Marketing Analytics
	Prompt Engineering & AI Orchestration		Financial Technology
	AI for IoT and Sensor Networks		Logistics & Supply Chain Management
	AI System Optimization & Scalability		Retail and E-Commerce Technology
	Domain Elective-II		Open Elective-II
	Explainable AI (XAI)		Business Intelligence and Decision Systems
	Privacy-Preserving AI		Intelligent Transportation and Mobility Systems
	Introduction to Quantum Computing		Smart Cities and Urban Analytics
	AI Data Engineering and ETL Pipelines		Digital Governance and E-Governance Systems
	Domain Elective-III		Open Elective-III
	AI in Healthcare		Healthcare Technology and Digital Health Systems
	AI in Agriculture		Digital Twin Technology
	Smart Manufacturing and Industrial AI		Drone Technology and Autonomous Mobility
	AI for Public Sector & Social Innovation		Smart and Sustainable Energy Systems