	Course Structure for B T	ech Artifici	al Intellig	gence Programme (Batch 2023-27)				
		Fi	rst Year					
	Semester - I			Semester - II	_			
S. No.	Course	Credits	S. No.	Course	Credits			
1	Calculus	4	1	Linear Algebra and Differential Equations	4			
2	Physics	4	2	Probability and Random variables	3			
3	English Communication	1	3	Elements of Biology	3			
4	Programming for Problem Solving	4	4	Engineering Graphics and Design	3			
5	Basic Electrical and Electronics Engineering	3	5	Principles of Economics and Management	3			
6	Environmental Science	2	6	Python Programming	1			
7	Critical Thinking	0	7	Digital Manufacturing Laboratory	1			
8	Constitution of India	0	8	Electrical and Electronics Workshop	1			
			9	Professional Ethics	1			
			10	Design Thinking	0			
	Total	18		Total	20			
		Sec	ond Year	•				
	Semester - III Semester - IV							
S. No.	Course	Credits	S. No.	Course	Credits			
1	Discrete Mathematics	3	1	Statistical Methods	3			
2	Random processes and Estimation Techniques	4	2	Signal and Image Processing	3			
3	Computer Architecture	2	3	Machine Learning	4			
4	Operating Systems	3	4	Database Management Systems	3			
5	Intelligent Systems - I	3	5	Optimization Techniques	3			
6	Data Structures and Algorithms	4	6	Management Accounting for Engineers	2			
7	Technical Communication	1	7	Integral Transforms	3			
8	Community Service	0						
	Total	20		Total	21			
Third Year								
Semester - V								
S. No.	Course	Credits	S. No.	Course	Credits			
1	Computer Networks	3	1	Advanced Topics in Machine Learning	3			
2	Deep Learning	3	2	Agile Product Development with DevOps	3			
3	Natural Language Processing	3	3	Robotics	3			
4	Department Elective - I	3	4	Department Elective - III	3			
5	Department Elective - II	3	5	Department Elective - IV	3			
6	Open Elective I	3	6	Open Elective - III	3			
7	Open Elective - II	3	7	Open Elective - IV	3			
			8	Interpersonal Skills	1			
	Total	21		Total	22			

	Fourth Year									
Semester - VII			Semester - VIII							
S. No.	Course	Credits	S. No.	Course	Credits					
1	Applied Time Series Analysis	3	1	Project	10					
2	Computer Vision	3								
3	Generative AI	3								
4	Department Elective - V	3								
5	Department Elective - VI	3								
6	Open Elective - V	3								
7	Capstone Project	4								
	Total	22		Total	10					
	<b>Total Credits for the Programme</b>	154								

Department Electives - I, II, III, IV, V & VI						
S. No.	Course	Credits				
1	Compiler Design	3				
2	Mobile Application Development	3				
3	Distributed Computing	3				
4	Web Programming	3				
5	Cryptography and Network Security	3				
6	Design and Analysis of Algorithms	3				
7	Robotic Process Automation	3				
8	Internet of Things (IoT)	3				
9	Human Computer Interaction	3				
10	Biometrics	3				
11	Blockchain Technology	3				
12	Evolutionary Computing	3				
13	Cloud Computing	3				
14	Recommendation Systems	3				
15	Big Data Analytics	3				
16	Reinforcement Learning	3				
17	Intelligent Systems - II	3				