	Course Structure for MI	BA Tech Artif	icial Intell	igence Programme (Batch 2023-28)	
		F	irst 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	Basic Electrical and Electronics Engineering	3	3	Elements of Biology	3
4	English Communication	1	4	Engineering Graphics and Design	3
5	Programming for Problem Solving	4	5	Principles of Economics and Management	3
6	Digital Manufacturing Laboratory	1	6	Python Programming	1
7	Electrical and Electronics Workshop	1	7	Professional Ethics	1
8	Environmental Science	2	8	Constitution of India	0
9	Design Thinking	0	9	Critical Thinking	0
	Total	20		Total	18
			cond 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	4
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	,	integral transforms	3
0	Total	20		Total	22
	1000		hird Year	1000	
	Semester - V			Semester - VI	
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	37 : 17 79 1		3	D 1	
_	Natural Language Processing	3		Robotics	3
4	Natural Language Processing Department Elective - I	3	4	Department Elective - III	3
	<u> </u>		4 5		
4	Department Elective - I	3		Department Elective - III	3
4 5	Department Elective - I Department Elective - II	3 3	5	Department Elective - III Department Elective - IV	3 3
4 5 6	Department Elective - I Department Elective - II Open Elective I	3 3 3	5 6	Department Elective - III Department Elective - IV Open Elective - III	3 3 3
4 5 6	Department Elective - I Department Elective - II Open Elective I	3 3 3 3 3	5 6 7 8	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV	3 3 3 3
4 5 6	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total	3 3 3 3 3	5 6 7	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV Interpersonal Skills Total	3 3 3 3 1
4 5 6 7	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII	3 3 3 3 3	5 6 7 8 urth Year	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV Interpersonal Skills Total Semester - VIII	3 3 3 3 1 22
4 5 6 7 S. No.	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course	3 3 3 3 3 5 Fo Credits	5 6 7 8 urth Year S. No.	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV Interpersonal Skills Total Semester - VIII Course	3 3 3 3 1 22
4 5 6 7 S. No.	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision	3 3 3 3 5 21 Fo Credits 3	5 6 7 8 urth Year S. No.	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis	3 3 3 3 1 22 Credits 3
4 5 6 7 S. No. 1 2	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V	3 3 3 3 7 21 Fo Credits 3 3	5 6 7 8 urth Year S. No. 1 2	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI	3 3 3 3 1 22 Credits 3 3
4 5 6 7 S. No. 1 2 3	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI	3 3 3 3 5 21 Fo Credits 3 3 3	5 6 7 8 urth Year S. No.	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis	3 3 3 3 1 22 Credits 3
4 5 6 7 S. No. 1 2 3 4	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V	3 3 3 3 5 21 Fo Credits 3 3 3 3 3 3	5 6 7 8 urth Year S. No. 1 2	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI	3 3 3 3 1 1 22 Credits 3 3
4 5 6 7 S. No. 1 2 3	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship	3 3 3 3 5 21 Fo Credits 3 3 3 4	5 6 7 8 urth Year S. No. 1 2	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project	3 3 3 1 22 Credits 3 3 5
4 5 6 7 S. No. 1 2 3 4	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total	3 3 3 3 5 21 Fo Credits 3 3 3 3 3 3	5 6 7 8 urth Year S. No. 1 2	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total	3 3 3 3 1 1 22 Credits 3 3
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects	3 3 3 3 7 21 Fo Credits 3 3 3 4 16	5 6 7 8 urth Year S. No. 1 2 3	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects	3 3 3 3 1 22 Credits 3 3 5
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics	3 3 3 3 7 21 Fo Credits 3 3 3 4 16	5 6 7 8 wrth Year S. No. 1 2 3	Department Elective - III Department Elective - IV Open Elective - III Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics	3 3 3 3 1 22 Credits 3 5 11 3 3
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Technical Internship Total Management Subjects Business Statistics Operations Management	3 3 3 3 3 Fo Credits 3 3 4 16 2 3	5 6 7 8 wurth Year S. No. 1 2 3	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management	3 3 3 3 1 22 Credits 3 5 11 3 2
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques	3 3 3 3 3 21 Fo Credits 3 3 3 4 16 2 3 2	5 6 7 8 wurth Year S. No. 1 2 3	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management	3 3 3 3 1 22 Credits 3 5 11 3 2 3 3 3 5
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques Financial Accounting and Analysis	3 3 3 3 3 7 21 Fo Credits 3 3 3 4 16 2 3 2 3 2 3	5 6 7 8 wurth Year S. No. 1 2 3	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management B2B Marketing	3 3 3 3 1 22 Credits 3 3 5 11 22 23 2
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques Financial Accounting and Analysis Marketing Management	3 3 3 3 3 4 16 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 6 7 8 wurth Year S. No. 1 2 3	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management B2B Marketing Design Thinking for Start-ups	3 3 3 3 1 22 Credits 3 5 11 3 2 3 2 2 2
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques Financial Accounting and Analysis	3 3 3 3 3 7 21 Fo Credits 3 3 3 4 16 2 3 2 3 2 3	5 6 7 8 wurth Year S. No. 1 2 3 4 5 6	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management B2B Marketing Design Thinking for Start-ups Organizational Behaviour	3 3 3 3 1 22 Credits 3 5 11 3 2 3 2 2 2 2
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques Financial Accounting and Analysis Marketing Management	3 3 3 3 3 4 16 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 6 7 8 wurth Year S. No. 1 2 3 4 5 6 7	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management B2B Marketing Design Thinking for Start-ups Organizational Behaviour Business Research Methods	3 3 3 3 1 22 Credits 3 3 5 11 22 2 2 2 2
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques Financial Accounting and Analysis Marketing Management	3 3 3 3 3 4 16 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 6 7 8 wurth Year S. No. 1 2 3 4 5 6 7 8	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management B2B Marketing Design Thinking for Start-ups Organizational Behaviour Business Research Methods Personal Skills for Business	3 3 3 3 1 22 Credits 3 5 11 3 2 2 2 2 2 2 2 2
4 5 6 7 S. No. 1 2 3 4 5	Department Elective - I Department Elective - II Open Elective I Open Elective - II Total Semester - VII Course Computer Vision Department Elective - V Department Elective - VI Open Elective - V Technical Internship Total Management Subjects Business Statistics Operations Management Quantitative Techniques Financial Accounting and Analysis Marketing Management	3 3 3 3 3 4 16 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 6 7 8 wurth Year S. No. 1 2 3 4 5 6 7	Department Elective - III Department Elective - IV Open Elective - IV Interpersonal Skills Total Semester - VIII Course Applied Time Series Analysis Generative AI Capstone Project Total Management Subjects Business Analytics Logistics and Supplychain Management Financial Management B2B Marketing Design Thinking for Start-ups Organizational Behaviour Business Research Methods	3 3 3 3 1 22 Credits 3 3 5 11 22 22 2 2 2

Fifth Year								
	Semester - IX			Semester - X				
S. No.	Course	Credits	S. No.	Course	Credits			
	Compulsory Subjects			Compulsory Subjects				
1	Human Resource Management	2	1	Strategic Management	3			
2	Management of Technology and Innovation	2	2	Sustainable Business Management Practices	2			
3	Business Communication	2	3	Legal aspects of Business	2			
4	Elective- 1	2	4	Macroeconomics	2			
5	Elective- 2	2	5	Elective- 5	2			
6	Elective- 3	2	6	Elective- 6	2			
7	Elective- 4	2	7	Elective- 7	2			
			8	Elective- 8	2			
	Total	14		Total	17			
	Value Added course							
	MIP	12						
1	Management Internship Programme – 16 weeks							
	Total	26		Total	17			

Total Credits for the Programme

227

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				