



Maulana Azad National Institute of Technology, Bhopal – 462003
Computer Science and Engineering Department
(Centre for Artificial Intelligence)

M Tech in Artificial Intelligence

SCHEME OF STUDY (w.e.f. July 2022)

First Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 511	Statistical Methods	3		-	3
AI 512	Knowledge base Systems	3		-	3
AI 513	Machine Learning	3		-	3
AI 514	Soft Computing	3		-	3
HUM 511	Communication Skills	2	-	-	2
	Elective-1 (A)	3	-	-	3
	Elective-2 (B)	3	-	-	3
AI 515	AI and ML Lab	-	-	2	1
AI516	Seminar-I	-	-	2	1
Total Hours: 24 Total Credits: 22		Total Semester Credits			22

Second Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 521	Modern Algorithm Design	3		-	3
AI 522	Deep Learning	3		-	3
AI 523	Computer Vision	3		-	3
	Elective -3(A)	3		-	3
	Elective -4(A)	3		-	3
	Elective -5(C)	3		-	3
MTH524	Research Methodology	1	1	-	2
AI525	Deep Learning and Vision Lab	-	-	2	1
AI526	Seminar-II	-	-	2	1
Total Hours: 24 Total Credits:44		Total Semester Credits			22

Third Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 611	Dissertation Phase-I	-	-	32	16
Total Hours:32 Total Credits: 60		Total Semester Credits			16

Fourth Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 621	Dissertation Phase-II	-	-	40	20
Total Hours: 40 Total Credits: 80		Total Semester Credits			20

List of Program Electives A		List of Open Electives C	
AI 551	Artificial and Evolutionary Algorithms	ARP 581	Introduction to Urban Planning
AI 552	Reinforcement Learning	BSE 581	Bioprocess Engineering
AI 553	Robotics and Planning algorithms	BSE 582	Biophysics Tool and Engineering
AI 554	Advanced Machine Learning Techniques	CHE 581	Analytical Techniques
AI 555	Natural Language Processing	CHE 582	Green Technology and Processes
AI 556	Fuzzy and Rough Theory	CE 581	Solid Waste Management
AI 557	Data Driven Optimization	CE 582	Basic Concept of GIS
AI 558	Brain Computer Interfacing	CE 583	Road Safety
AI 559	Text Mining	PHY 581	Nanotechnology and Nanoscience
AI 560	Game Theory	EE 581	Electric Machines and Applications
AI 561	Scalable Systems for datascience	EE 582	Control and Instrumentation
		ECE 581	Introduction to Fuzzy Logic
	List of Departmental Electives B	ECE 582	Neural Networks and Applications
AC 512	Advanced Data Structure	EC 581	Energy Resource Technologies
AC 553	Web Search & Information Retrieval	HUM 581	Intellectual Property Rights for Engineers
CN 512	Computer & Network Security	HUM 582	Applied Psychology: Human Centered Design and Engineering
CN 514	Wireless Networking	MTH 581	Advanced Operations Research
IS 513	Cybercrime & Information Warfare	MTH 582	Computing Technologies
		ME 581	Value Engineering
		ME 582	Design thinking
		ME 583	Mechatronics and NDT Engineering
		MME 581	Advanced Instrumentation Methods for Material Analysis
		MME 582	Smart Materials and Their Applications
		MBA 581	Engineering Startup Management