



**MAULANA AZAD  
NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL – 462003**

**Centre of Artificial Intelligence**

**M. Tech. in Artificial Intelligence (FULL TIME)**

**FIRST SEMESTER**

Course No.	Subject	Scheme of Studies Periods per Week			Total Credit
		L	T	P	
FAI24511	Statistical Methods	3	-	-	3
FAI24512	Machine Learning	3	-	-	3
FAI24513	Soft Computing	3	-	-	3
	Department Elective -1	3	-	-	3
	Department Elective -2	3	-	-	3
FAI24514	LAB-I (ML Lab)	-	-	2	1
FAI24515	LAB-II (Soft Computing Lab)	-	-	2	1
FAI24516	Seminar-I	-	-	2	1
FAI24517	Minor Project-1 (Self Learning)	-	-	-	2
FHUM24511	Communication Skills	2	-	-	0
Total Hours: 23 Total Credits: 40		Total Semester Credits			20

- Communication skill will be Audit Course of 2 credits which will not be counted in SGPA/CGPA Calculations

**SECOND SMESTER**

Course No.	Subject	Scheme of Studies Periods per Week			Total Credit
		L	T	P	
FAI24521	Deep Learning	3	-	-	3
FAI24522	Computer Vision	3	-	-	3
	Department Elective -3 (A)	3	-	-	3
	Department Elective -4 (A)	3	-	-	3
	Open Elective	3	-	-	3
FAI24523	LAB-III (Deep Learning Lab)	-	-	2	1
FAI24524	LAB-IV- (Vision Lab)	-	-	2	1
FAI24525	Seminar-II	-	-	2	1
FAI24526	Minor Project-2 (Self Learning)	-	-	-	2
Total Hours: 23 Total Credits: 40		Total Semester Credits			20

- Research Methodology should be included in Departmental Elective instead of core subject



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**THIRD SEMESTER**

Course No.	Subject	Scheme of Studies Periods per Week			Total Credit
		L	T	P	
FAI24611	Dissertation Phase – I	-	-	40	20
<b>Total Hours: 40 Total Credits: 60</b>		<b>Total Semester Credits</b>			<b>20</b>

**FOURTH SEMESTER**

Course No.	Subject	Scheme of Studies Periods per Week			Total Credit
		L	T	P	
FAI24621	Dissertation Phase – II	-	-	40	20
<b>Total Hours: 40 Total Credits: 80</b>		<b>Total Semester Credits</b>			<b>20</b>

List of Department Elective		List of Open Elective	
Subject Code	Subject	Subject Code	Subject
FAI24551	Wireless Networking	ARP24581	Introduction to Urban Planning
FAI24552	Advance Data Structures	BSE24581	Bioprocess Engineering
FAI24553	Cryptography	BSE24582	Biophysics Tool and Engineering
FAI24554	Quantum Computing	CHE24581	Analytical Techniques
FAI24555	Computer and Network Security	CHE24582	Green Technology and Processes
FAI24556	Game Theory	CE24581	Solid Waste Management
FAI24557	Web Search & Information Retrieval	CE24582	Basic Concept of GIS



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FAI24558	Reinforcement Learning	CE24583	Road Safety
FAI24559	Knowledge base systems	PHY24581	Nanotechnology and Nanoscience
FAI24560	Scalable system for data science	EE24581	Electric Machines and Applications
FAI24561	Expert Systems	EE24582	Control and Instrumentation
FAI24562	Graph Theory and Network algorithms	ECE24581	Introduction to Fuzzy Logic
FAI24572	Parallel Algorithms	ECE24582	Neural Networks and Applications
FAI24573	Privacy & Database Security	EC24581	Energy Resource Technologies
FAI24574	Stochastic Processes and Queuing Theory	HUM24581	Intellectual Property Rights for Engineers
FAI24575	High Performance Computing	HUM24582	Applied Psychology: Human Centered Design and Engineering
FAI24576	Advanced Machine Learning	MTH24581	Advanced Operations Research
FAI24577	Internet of Things (IoT)	MTH24582	Computing Technologies
FAI24578	Artificial & Evolutionary Algorithms	ME24581	Value Engineering
FAI24579	Natural Language Processing	ME24582	Design thinking
FAI24580	Generative AI	ME24583	Mechatronics and NDT Engineering
FAI24581	Robotics and Planning algorithms	MME24581	Advanced Instrumentation Methods for Material Analysis
FAI24582	Brain Computer Interface	MME24582	Smart Materials and Their Applications
FAI24572	Parallel Algorithms	MBA24581	Engineering Startup Management