



**Maulana Azad National Institute of Technology, Bhopal –
462003**

Department of Computer Science and Engineering

PROPOSED SCHEME M.Tech (w.e.f. July2024)

First Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
FIS24 511	Cryptography	3	-	-	3
FIS24 512	Computer & Network Security	3	-	-	3
FIS24 513	Malware Analysis & Reverse Engineering	3	-	-	3
	Department Elective - 1	3	-	-	3
	Department Elective - 2	3	-	-	3
FIS24 514	Lab-I (Core subjects Lab)	-	-	2	1
FIS24 515	Lab-II (Elective subjects Lab)	-	-	2	1
FIS24 516	Seminar-I	-	-	2	1
FIS24 517	Project-1	-	-		2
HUM24 511	Communication Skills	-	-	2	-
Total Hours:23 TotalCredits:20		Total Semester Credits			20

- **Communication Skill will be Audit Course of 2 credits which will not be counted in SGPA/CGPA calculation**

Second Semester:

Course No.	Subject	Schemes of studies Periods per week			Total Credits
		L	T	P	
FIS24 521	Privacy and Database Security	3	-	-	3
FIS24 522	Digital Forensics	3	-	-	3
	Department Elective - 3	3	-	-	3
	Department Elective - 4	3	-	-	3
	Open Elective	3	-	-	3
FIS24 523	Lab-III (Core subjects Lab)	-	-	2	1
FIS24 524	Lab-IV (Elective subjects Lab)	-	-	2	1
FIS24 525	Seminar-II	-	-	2	1
FIS24 526	Project-2				2
Total Hours:23 TotalCredits:40		Total Semester Credits			20

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

Third Semester:

Course No.	Subject	Schemes of studies Periods per week			Total Credits
		L	T	P	
FIS24 611	Dissertation Phase-I	-	-	40	20
FIS 512		Total Semester Credits			20

Fourth Semester:

Course No.	Subject	Schemes of studies Periods per week			Total Credits
		L	T	P	
FIS24 621	Dissertation Phase-II	-	-	40	20
FIS 512		Total Semester Credits			20

Department Elective		List of Open Electives	
FIS24 551	Advanced Data Structure	ARP24 581	Introduction to Urban Planning
FIS24 552	Machine Learning	BSE24 581	Bioprocess Engineering
FIS24 553	Wireless Networking	BSE24 582	Biophysics Tool and Engineering
FIS24 554	Statistical Methods	CHE24 581	Analytical Techniques
FIS24 555	Soft Computing	CHE24 582	Green Technology and Processes
FIS24 556	Architecture of Large Systems	CE24 581	Solid Waste Management
FIS24 557	Quantum Computing	CE24 582	Basic Concept of GIS
FIS24 558	Cybercrime & Information Warfare	CE24 583	Road Safety
FIS24 559	Research Methodology	PHY24 581	Nanotechnology and Nanoscience
FIS24 560	Ethical Hacking	EE24 581	Electric Machines and Applications
FIS24 561	Web Search and Information Retrieval	EE24 582	Control and Instrumentation
FIS24 562	Information Risk Management and Compliance	ECE24 581	Introduction to Fuzzy Logic
FIS24 563	Internet Security, Tools and Techniques	ECE24 582	Neural Networks and Applications
FIS24 564	Biometric	EC24 581	Energy Resource Technologies
FIS24 565	Deep Learning	HUM24 581	Intellectual Property Rights for Engineers
FIS24 566	Parallel Algorithms	HUM24 582	Applied Psychology: Human Centered Design and Engineering
FIS24 567	Graph Theory & Network Algorithms	MTH24 581	Advanced Operations Research
FIS24 568	High Performance Computing	MTH24 582	Computing Technologies
FIS24 569	Computer Vision	ME24 581	Value Engineering
FIS24 570	Stochastic Process and queuing Theory	ME24 582	Design thinking
FIS24 571	Natural Language Processing	ME24 583	Mechatronics and NDT Engineering
FIS24 572	Internet of Things	MME24 581	Advanced Instrumentation Methods for Material Analysis
FIS24 573	Steganography & Digital Watermarking	MME24 582	Smart Materials and Their Applications
FIS24 574	Penetration Testing and Vulnerability Analysis	MBA24 581	Engineering Startup Management
FIS24 575	Security Threats & Modelling		
FIS24 576	Intellectual Property and Espionage		
FIS24 577	Security Operations and Incidence Response		

