



MAULANA AZAD
NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL - 462003

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
M. TECH (COMPUTER NETWORKING) FULL TIME SCHEME, W.E.F JULY 2024

I SEMESTER

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
FCN24 511	Computer & Network Security	3	-	-	3
FCN24 512	TCP/IP	3	-	-	3
FCN24 513	Wireless Networking	3	-	-	3
	Department Elective - I	3	-	-	3
	Department Elective - II	3	-	-	3
FCN24 514	Lab - I (Based on Core Subjects)	-	-	2	1
FCN24 515	Lab - II (Based on Elective Subjects)	-	-	2	1
FCN24 516	Seminar - I	-	-	2	1
FCN24 517	Project - I (Self Learning)	-	-	-	2
FHUM24 511	Communication Skills/ Research Methodology (From NPTEL)	-	-	-	0
Total Hours: 23		Total Semester Credits			20
Total Credits: 20					

II SEMESTER

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
FCN24 521	Stochastic Process & Queuing Theory	3	-	-	3
FCN24 522	Graph Theory & Network Algorithms	3	-	-	3
	Department Elective - III	3	-	-	3
	Department Elective - IV	3	-	-	3
	Open Elective	3	-	-	3
FCN24 523	Lab – III (Based on Core Subjects)	-	-	2	1
FCN24 524	Lab – IV (Based on Elective Subjects)	-	-	2	1
FCN24 525	Seminar – II	-	-	2	1
FCN24 526	Project – II (Self Learning)	-	-	-	2
Total Hours: 23		Total Semester Credits			20
Total Credits: 40					



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III SEMESTER

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
FCN24 611	Dissertation Phase - I	-	-	40	20
Total Hours:	40	Total Semester Credits			20
Total Credits:	60				

IV SEMESTER

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
FCN24 621	Dissertation Phase - II	-	-	40	20
Total Hours:	40	Total Semester Credits			20
Total Credits:	80				



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DEPARTMENTAL ELECTIVIES I, II, III & IV			
FCN24 551	Machine Learning	FCN24 571	Deep Learning
FCN24 552	Advance Data Structures	FCN24 572	Parallel Algorithms
FCN24 553	Cryptography	FCN24 573	Privacy & Database Security
FCN24 554	Network Security & Design	FCN24 574	Storage Area Networks
FCN24 555	Ad hoc & Sensor Networks	FCN24 575	Software Defined Networks
FCN24 556	Quantum Computing	FCN24 576	Computer Vision
FCN24 557	Research Methodology	FCN24 577	Internet of Things (IoT)
FCN24 558	Web Search & IR	FCN24 578	Next Generation Networks
FCN24 559	Network Devices & Programming	FCN24 579	Security Risk Analysis & Modelling
FCN24 560	Information Theory & Coding	FCN24 580	Generative AI
FCN24 561	Soft Computing	FCN24 581	Reinforcement Learning
FCN24 562	Sensors, Microcontrollers and Embedded System		
FCN24 563	Fundamental of Robotics		

OPEN ELECTIVIES			
ARP24 581	Introduction to Urban Planning	EC24 581	Energy Resource Technologies
BSE24 581	Bioprocess Engineering	HUM24 581	Intellectual Property Rights for Engineers
BSE24 582	Biophysics Tools and Techniques	HUM24 582	Applied Psychology: Human Centred Design and Engineering
CHE24 581	Analytical Techniques	MTH24 581	Advanced Operations Research
CHE24 582	Green Technology & Processes	MTH24 582	Computing Technologies
CE24 581	Solid Waste Management	ME24 581	Value Engineering
CE24 582	Basic Concept of GIS	ME24 582	Design Thinking
CE24 583	Road Safety	ME24 583	Mechatronics and NDT in Engineering
PHY24 581	Nanotechnology and Nanoscience	MME24 581	Advanced Instrumentation Methods for Material Analysis
EE24 581	Electric Machines & Applications	MME24 582	Smart Materials and their Application
EE24 582	Control and Instrumentation	MBA24 581	Engineering Startup Management
ECE24 581	Introduction to Fuzzy Logic		
ECE24 582	Neural Networks and its Applications		