

# NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL - 462003 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

M.TECH (COMPUTER NETWORKING) PART TIME SCHEME, W.E.F JULY 2024

#### **I SEMESTER**

Subject Code	which Code Subject		Periods Per Week			
Subject Code	Subject	L	T	P	Credits	
PCN24 511	Computer & Network Security	3	-	-	3	
PCN24 512	TCP/IP	3	-	-	3	
	Department Elective - I 3		3			
PCN24 513	Lab – I (Based on Core & Elective Subjects)	-	-	2	1	
PCN24 514	Seminar – I	2		1		
PCN24 515	Minor Project – I (Self Learning)			2		
	Communication Skills/ Research Methodology (From NPTEL)		-			
<b>Total Hours:</b>	13	<b>Total Semester Credits</b>		13		
<b>Total Credits:</b>	13			13		

### **II SEMESTER**

Subject Code Subject		Periods Per Week			Total
Subject Code	Subject		T	P	Credits
PCN24 521	Stochastic Process & Queuing Theory	3	1	-	3
PCN24 522	Graph Theory & Network Algorithms	3	1	-	3
	Department Elective - II		1	-	3
PCN24 523	Lab – II (Based on Core & Elective Subjects)	2 1		1	
PCN24 524	Seminar – II	2 1		1	
PCN24 525	Minor Project – II (Self Learning)			2	
	Communication Skills/ Research Methodology (From NPTEL)		-		
<b>Total Hours:</b>	13	<b>Total Semester Credits</b>		13	
Total Credits:	26			13	



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### **III SEMESTER**

Subject Code	Subject Code Subject		Periods Per Week		
Subject Code			T	P	Credits
PCN24 531	Wireless Networking	3	-	-	3
	Department Elective - III 3		3		
PCN24 532	Lab – III (Based on Core & Elective Subjects)	- 2		1	
PCN24 533	Pre-Dissertation - I 12		6		
<b>Total Hours:</b>	20	Total Semester Credits		12	
Total Credits :	39	1 otal S	semester	Credits	13

#### IV SEMESTER

Subject Code	Subject	Periods Per Week			Total
Subject Code	Subject		T	P	Credits
	Department Elective - IV	3	-	-	3
	Open Elective	3	-	-	3
PCN24 541	Lab – IV (Based on Core & Elective Subjects)	-	-	2	1
PCN24 542	Pre-Dissertation - II	-	-	12	6
<b>Total Hours:</b>	20	Total Semester Credits		13	
<b>Total Credits:</b>	52	Totals	semester	Credits	13

#### **V SEMESTER**

Subject Code	Subject	Periods Per Week			Total
Subject Code		L	T	P	Credits
PCN24 611	Dissertation Phase - I	-	1	28	14
<b>Total Hours:</b>	28		Tota	al	1/
<b>Total Credits:</b>	66	Semeste	er Credit	S	14

### **VI SEMESTER**

Subject Code Subject	Perio	ds Per V	Total		
Subject Code	Subject	L	T	P	Credits
PCN24 621	Dissertation Phase - II	-	-	28	14
<b>Total Hours:</b>	28		Tota	al	14
Total Credits:	80	Semeste	er Credit	S	14



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DEPARTMENTAL ELECTIVIES I, II, III & IV						
PCN24 551	Machine Learning	PCN24 571	Deep Learning			
PCN24 552	Advance Data Structures	PCN24 572	Parallel Algorithms			
PCN24 553	Cryptography	PCN24 573	Privacy & Database Security			
PCN24 554	Network Security & Design	PCN24 574	Storage Area Networks			
PCN24 555	Ad hoc & Sensor Networks	PCN24 575	Software Defined Networks			
PCN24 556	Quantum Computing	PCN24 576	Computer Vision			
PCN24 557	Research Methodology	PCN24 577	Internet of Things (IoT)			
PCN24 558	Web Search & IR	PCN24 578	Next Generation Networks			
PCN24 559	Network Devices & Programming	PCN24 579	Security Risk Analysis & Modelling			
PCN24 560	Information Theory & Coding	PCN24 580	Generative AI			
PCN24 561	Soft Computing	PCN24 581	Reinforcement Learning			
PCN24 562	Sensors, Microcontrollers and Embedded Systems					
PCN24 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 Centered 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					



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