

**Maulana Azad National Institute of Technology, Bhopal**  
**Department of Computer Science & Engineering**  
**Schema for M.Tech (Computer Networking) I Semester to IV Semester**

**Semester I**

Course number	Subject	Schemes of Studies Periods per week			Credits
		L	T	P	
CN 511	Stochastic Process & Queuing Theory	3	-	-	3
CN 512	TCP/IP	3	-	-	3
CN 513	Wireless Network	3	-	-	3
CN 531-535	Elective - I	3	-	-	3
CN 541-544	Elective - II	3	-	-	3
CN 571-575	Open Elective - I	3	-	-	3
CN 514	Implementation of Network Protocols Lab	-	-	2	1
CN515	Electives Lab - I	-	-	2	1
CN 516	Seminar - I	-	-	2	2
<b>Total credit</b>					<b>22</b>

**Departmental Electives**

Course number	Elective I	Course number	Elective II
CN 531	Data Mining	CN 541	Advance Data Structures
CN 532	Operating System & Design	CN 542	Architecture of Large Systems
CN 533	Web Search & Information Retrieval	CN 543	Computer & Network Security
CN 534	Digital Image Processing	CN 544	Embedded Systems
CN 535	Internet of Things (IoT)		

**Open Elective**

Course number	Open Elective I
CN 571	Distributed Computing
CN 572	Object Oriented Design & Modeling
CN 573	Optimization Techniques
CN 574	Cloud Computing
CN 575	Support Vector Machine

**Maulana Azad National Institute of Technology, Bhopal**  
**Department of Computer Science & Engineering**  
**Schema for M.Tech (Computer Networking) I Semester to IV Semester**

**Semester II**

Course number	Subject	Schemes of Studies Periods per week			Credits
		L	T	P	
CN 521	Network Devices	3	-	-	3
CN 522	Network Analysis & Design	3	-	-	3
CN 523	Graph Theory & Algorithms	3	-	-	3
CN 551-555	Elective - III	3	-	-	3
CN 561-565	Elective - IV	3	-	-	3
CN 581-585	Open Elective - II	3	-	-	3
CN 524	Implementation & Designing of Graph Algorithms Lab	-	-	2	1
CN 525	Electives Lab - II	-	-	2	1
CN 526	Seminar - II	-	-	2	2
<b>Total credit</b>					<b>22</b>

**Departmental Electives**

Course number	Elective III	Course number	Elective IV
CN 551	Cluster & Grid Computing	CN 561	Distributed Databases
CN 552	Natural Language Processing	CN 562	Ad hoc & Sensor Networks
CN 553	Advance Software Engineering	CN 563	Semantic Web
CN 554	Machine Learning	CN 564	Parallel Algorithms
CN 555	Professional Communication	CN 565	Soft Computing

**Open Elective**

Course number	Open Elective II
CN 581	Image Analysis
CN 582	Statistical Methods
CN 583	Big Data Analytics
CN 584	Technical Foundation for e-Commerce
CN 585	Integer Programming

**Maulana Azad National Institute of Technology, Bhopal**  
**Department of Computer Science & Engineering**

Schema for M.Tech (Computer Networking) I Semester to IV Semester

**Semester III**

Subject Code	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
CN - 611	Dissertation Phase -I	-	-	23	23
<b>Total Credit</b>					<b>23</b>

**Semester IV**

Subject Code	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
CN - 621	Dissertation Phase –II	-	-	23	23
<b>Total Credit</b>					<b>23</b>