



**Maulana Azad National Institute of Technology Bhopal**  
**Scheme M.Tech. (Computer Networking) (Full Time)**  
**(w.e.f.: July-2025)**

**I Semester**

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
CS CN 1101	Computer & Network Security	3	-	-	3
CS CN 1102	TCP/IP	3	-	-	3
CS CN 1103	Wireless Networking	3	-	-	3
CS CN 1151 - 1159	Department Elective – 1	3	-	-	3
CS CN 1161 - 1169	Department Elective – 2	3	-	-	3
CS CN 1104	Lab – 1 (Based on Core and Elective Subjects)	-	-	2	1
CS CN 1105	Lab – 2 (Programming Lab 1)	-	-	2	1
CS CN 1106	Seminar – 1	-	-	2	1
CS CN 1107	Project – 1 (Self Learning)	-	-	-	2
HSPG 1101	Communication Skills*	2	-	-	0
Total Hours : 23 Total Cumulative Credits : 20		Total Semester Credits			20
*Communication Skills will be a 2 credit Audit Course, which will be not included in SGPA/CGPA calculations.					

**II Semester**

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
CS CN 1201	Stochastic Process and Queuing Theory	3	-	-	3
CS CN1202	Graph Theory and Network Algorithms	3	-	-	3
CS CN 1251 - 1259	Department Elective – 3	3	-	-	3
CS CN 1261 - 1269	Department Elective – 4	3	-	-	3
	Open Elective	3	-	-	3
CS CN 1203	Lab – 3 (Based on Core and Elective Subjects)	-	-	2	1
CS CN 1204	Lab – 4 (Programming Lab 2)	-	-	2	1
CS CN 1205	Seminar – 2	-	-	2	1
CS CN 1206	Project – 2 (Self Learning)	-	-	-	2
<b>Total Hours : 23</b>		<b>Total Semester Credits</b>			<b>20</b>
<b>Total Cumulative Credits : 40</b>					



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**III Semester**

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
CS CN 2101	Dissertation Phase - I	-	-	40	20
<b>Total Hours : 40</b>				<b>Total Semester Credits</b>	
<b>Total Cumulative Credits : 60</b>				<b>20</b>	

**IV Semester**

Subject Code	Subject	Periods Per Week			Total Credits
		L	T	P	
CS CN 2201	Dissertation Phase - II	-	-	40	20
<b>Total Hours : 40</b>				<b>Total Semester Credits</b>	
<b>Total Cumulative Credits : 80</b>				<b>20</b>	

DEPARTMENTAL ELECTIVIES I, II, III & IV			
DEPARTMENTAL ELECTIVE I		DEPARTMENTAL ELECTIVE II	
CS CN 1151	Statistical Methods	CS CN 1161	Sensors, Microcontrollers and Embedded System
CS CN 1152	Machine Learning and Deep Learning	CS CN 1162	Cryptography
CS CN 1153	Soft Computing	CS CN 1163	Architecture of Large Systems
CS CN 1154	Distributed Systems	CS CN 1164	Advance Data Structures
CS CN 1155	Cloud Computing	CS CN 1165	Malware Analysis & Reverse Engineering
CS CN 1156	Cluster and Grid Computing	CS CN 1166	Quantum Computing
CS CN 1157	Fundamental of Robotics	CS CN 1167	Storage Area Networks
CS CN 1158	Network Devices and Programming	CS CN 1168	Software Defined Networks
CS CN 1159	Information Theory and Coding	CS CN 1169	Web Search and Information Retrieval
DEPARTMENTAL ELECTIVE III		DEPARTMENTAL ELECTIVE IV	
CS CN 1251	Generative AI	CS CN 1261	Parallel Algorithms
CS CN 1252	Biometric	CS CN 1262	Operating Systems and Design
CS CN 1253	Computer Vision	CS CN 1263	Cyber Crime and Information Warfare
CS CN 1254	Internet of Things (IoT)	CS CN 1264	High Performance Computing
CS CN 1255	Natural Language Processing	CS CN 1265	Bigdata Technologies
CS CN 1256	Optimization Techniques	CS CN 1266	Digital Forensic
CS CN 1257	Ad hoc and Sensor Networks	CS CN 1267	Privacy and Database Security
CS CN 1258	Network Devices & Programming	CS CN 1268	-
CS CN 1259	Next Generation Networks	CS CN 1269	-