



DEPARTMENT OF INFORMATION TECHNOLOGY

CS23532 - COMPUTER NETWORKS

LAB MANUAL

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Year / Branch	: 3rd B.Tech IT
Semester	: 5
Academic Year	: 2025-2026



BONAFIDE CERTIFICATE

NAME FAQRUDEEN FAIZAN Z

ACADEMIC YEAR 2025-2026 **SEMESTER** 5..... **BRANCH** B.Tech IT

UNIVERSITY REGISTER No, 2116231001042

Certified that this is the bonafide record of work done by the above student in the

Computer Networks Lab
..... Laboratory during the year 20²⁵ - 20²⁶

Signature of Faculty - in - Charge

Submitted for the Practical Examination held on 30/10/2025

Internal Examiner

External Examiner

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1	11-07-25	Basic Networking Commands in Linux and Windows operating systems	1
2	11-07-25	Learning and Assignment of IP Address manually to computers	3
3	11-07-25	Study of different types of Network Cables and Crimping of cable with RJ45 connector	5
4	25-07-25	Implement packet sniffing using raw sockets in python	8
5	25-07-25	Develop a customized ping command to test the server connectivity	10
6	01-08-25	Building anonymous FTP Scanner using ftplib module	12
7	08-08-25	Develop a simple calculator using XMLRPC	14
8	05-09-25	Develop a program to create reverse shell using TCP sockets	16
9	12-09-25	Design a simple topology and configure with one router, two switches and PCs using Cisco Packet Tracer	18
10	19-09-25	Customize Switch with Network Modules using Cisco Packet Tracer	20
11	26-09-25	Examine Network Address Translation (NAT) using Cisco Packet Tracer	24
12	26-09-25	Nmap to discover live hosts using ARP scan, ICMP scan, and TCP/UDP ping scan in TryHackMe Platform.	28

13	26-09-25	Demonstrate network forensics using PcapXray tool cmized ping command to test the server connectivity	32
14	03-10-25	To capture, save, and analyze network traffic on TCP / UDP / IP / HTTP / ARP /DHCP /ICMP /DNS using Wireshark Tool	35
15	03-10-25	To Analyze the different types of servers using Webalizer tool	40