



NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY

GREATER NOIDA-201306

(An Autonomous Institute)

School of Computer Sciences & Engineering in Emerging Technologies

Department of CSE (Data Science)

Session (2024-2025)

**LAB FILE
ON
Computer Network Lab
(ACSE0552)
(5th Semester)**

Submitted To:

**Ms. Honey Singh
(Assistant Professor)**

Submitted By:

**Name: Anurag Sinha
Roll No. : 2201331540047**



Affiliated to Dr. A.P.J Abdul Kalam Technical University, Uttar Pradesh, Lucknow.

B. Tech. Third Year				
Course Code	ACSE0552			
Course Title	Computer Network Lab			
List of Experiment:				
Sr.No.	Name of Experiment	Page No.	Date	Faculty Sign.
1	To make an UTP cable with RJ-45 connector, and build and test simple network using UTP cable (crossover) and a hub-based network.			
2	Implementation of data link layer framing method such as bit stuffing in Python.			
3	Test the Network connection using ping command and use of ipconfig, netstat and tracer command provided by TCP/IP.			
4	Implementation of CRC algorithm in Python.			
5	Implementation of stop and wait protocol in Python.			
6	Implementation of hamming code (7, 4) code to limit the noise. We have to code the bit data in to 7bit data by adding 3 parity bits. Implement in Python.			
7	Write a program in java to find the IP address of the system.			
8	Write a program in java to find the IP address of the any site if name is given.			
9	Introduction to Network Devices (Repeater, Hub, Bridge, Switch, Router, Gateways, NIC etc.).			
10	Introduction to CISCO Packet Tracer. Design Bus, Star, Mesh, Ring Topology and check the connectivity using ping command.			