COMPUTER NETWORKS LAB
(Common for CSE & IT)

Course Code: 15CT1131

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Course Outcomes :

At the end of the Course, the Student will be able to:

CO 1 Design a Local Area Network.

CO 2 Implement error Control and flow control methods.

CO 3 Understand the Network layer design issues.

CO 4 Implement data encryption and decryption techniques

CO 5 Use network simulator and packet tracer tools for designing networks

LIST OF PROGRAMS:

1. Connect the computers in Local Area Network
2. Implement CRC and Hamming code for error handling.
3. Implement Sliding window protocol.
4. Configure a network using Distance Vector Routing Algorithm.
5. Implement Address Resolution Protocol(ARP) and Reverse Address Resolution Protocol(RARP)
6. Using RSA algorithm Encryptthe data while sending it and Decrypt while receiving.
7. NS-2 Installation Procedure.
8. Design a sample topology using NS-2
9. Implement Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) between different pairs of systems using NS-2

10. Design Network using loop constraint.

11. Design a Network using Packet Tracer.
(The way the network has to be designed is given by the faculty)

WEB REFERENCES:

http://www.isi.edu/nsnam/ns/tutorial/

www.cisco.com