

COMPUTER NETWORKS LAB

(Common to CSE & IT)

Course Code: 19CT1113

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Course Outcomes: At the end of the Course the student shall be able to:

CO1: Illustrate a Local Area Network.

CO2: Demonstrate error handling methods.

CO3: Model the network protocols using a network simulator.

CO4: Analyze packet transmission using TCP and UDP .

CO5: Demonstrate application layer protocols.

LIST OF PROGRAMS:

1. Installation of Simulation Tools (packet tracer and NS2).
2. Configure the LAN using packet tracer.
3. Design a sample topology using NS2 Simulation Tool.
4. Implement CRC and Hamming code for error handling.
5. To create scenario for CSMA/CD using NS2 Simulation Tool.
6. Implementation of stop and wait protocol.
7. Implementation of goback-N protocol and selective repeat protocol using NS2 Simulation Tool.
8. Implementation of distance vector routing algorithm.
9. Implementation of Link state routing algorithm using NS2 Simulation Tool.
10. Implement TCP and UDP on different pairs of systems using NS2 Simulation Tool.
11. Configuring any two application layer protocols using packet tracer..
12. Implementation of wireless networks using NS2 Simulation Tool.

WEB REFERENCES:

1. <https://www.isi.edu/nsnam/ns/>