EC8563 COMMUNICATION NETWORKS LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

The student should be made to:

- Learn to communicate between two desktop computers
- Learn to implement the different protocols
- Be familiar with IP Configuration
- Be familiar with the various routing algorithms
- Be familiar with simulation tools

LIST OF EXPERIMENTS:

1. Implementation of Error Detection / Error Correction Techniques

2. Implementation of Stop and Wait Protocol and sliding window

3. Implementation and study of Goback-N and selective repeat protocols

4. Implementation of High-Level Data Link Control

5. Implementation of IP Commands such as ping, Traceroute, nslookup.

6. Implementation of IP address configuration.

7. To create scenario and study the performance of network with CSMA / CA protocol and compare with CSMA/CD protocols.

8. Network Topology - Star, Bus, Ring

9. Implementation of distance vector routing algorithm

10. Implementation of Link state routing algorithm

11. Study of Network simulator (NS) and simulation of Congestion Control Algorithms using NS

12. Implementation of Encryption and Decryption Algorithms using any programming language