



LAB MANUAL

COMPUTER NETWORK

(CS-604)

Semester: 6th

(COMPUTER SCIENCE DEPARTMENT)

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Corporate Institute of Science & Technology, Bhopal

Department of Computer science

INDEX

Computer network (CS-604)

List of Experiments

S.no	Name of Experiment	Submission Date	Sign
1	To study Communication guiding system		
2	To study various types of connectors		
3	To study of different type of LAN equipments.		
4	Study and verification of standard Network topologies i.e. Star, Bus, Ring etc		
5	LAN installations and their Configurations		
6	To implement various types of error correcting techniques		
7	To implement various types of farming methods		
8	To implement various types of DLL protocols		
9	To study & configure various types of router & Bridges.		
10	To implement various types of routing algorithm		
11	Study & Simulation of MAC Protocols like Aloha, CSMA,		
12	Study & Simulation of Routing Protocols using Standard Network Simulator		
13	Study & implementations of VoIP Concepts.		

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INDEX

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List of Demo Experiments

S.no	Name of Experiment	Submission Date	Sign
1	Write a program for error detecting code using CRC-CCITT (16-bits).		
2	Write a program for frame sorting technique used in buffers		
3	Write a program for distance vector algorithm to find suitable path for transmission.		
4	Study and verification of standard Network topologies i.e. Star, Bus, Ring etc		
5	Using TCP/IP sockets, write a client-server program to make client sending the file name and the server to send back the contents of the requested file if present.		
6	Implement the above program using as message queues or FIFO as IPC channels.		
7	Write a program for simple RSA algorithm to encrypt and decrypt the data.		
8	Write a program for Hamming Code generation for error detection and correction		
9	Write a program for congestion control using Leaky bucket algorithm.		
10	Implementation & Comparisons of various types of Cryptographic algorithms.		