COMMUNICATION NETWORKS LAB

Course Code	19EC3751	Year	IV	Semester	I
Course Category	Program Core	Branch	ECE	Course Type	Lab
Credits	1	L-T-P	0-0-2	Prerequisites	Nil
Continuous Internal Evaluation:	25	Semester End Evaluation:	50	Total Marks:	75

Course Outcomes	
Upon successful completion of the course, the student will be able to	
CO1	Explain Communicate between two desktop computers (L3)
CO2	Implement different protocols (L3)
CO3	Program employing sockets (L3)
CO4	Apply and Evaluate various routing algorithms (L4)
CO5	select simulation tools (L4)

Mapping of course outcomes with Program outcomes (CO/ PO/PSO Matrix)
Note: 1- Weak correlation   2-Medium correlation   3-Strong correlation
* - Average value indicates course correlation strength with mapped PO

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	3	3								2	
CO2	2	3	3	3	3								2	
CO3	2	2	3	3	3								2	
CO4	3	3	3	2	3								2	
Average* (Rounded to nearest integer)	3	3	3	3	3								2	

S No.	Description
1	Implementation of Error Detection / Error Correction Techniques
2	Implementation of Stop & Wait Protocol and sliding window
3	Implementation & Study of GO-Back N and selective repeat protocols
4	Implementation of High-level data link control
5	Implementation of IP commands such as PING, Trace route, NSLOOKUP
6	Implementation of distance vector routing algorithm
7	Implementation of link state routing algorithm
8	Study of network simulator & Simulation f congestion control algorithm using NS
9	Implementation of encryption & Decryption algorithm using programming language
10	Implementation of IP Address configuration

Learning Resource	
e- Resources & other digital material	
1.	http://nptel.iitm.ac.in/courses/IIT-MADRAS/Computer_Networks/index.php