RAJAGIRISCHOOLOFENGINEERINGANDTECHNOLOGY

# DEPARTMENT OF INFORMATIONTECHNOLOGY

# S6 CU (2021-25 Batch)

# 101009/IT622S COMPUTERNETWORKSLAB

**LABCYCLE**

# Cycle1:InternetworkingBasics

* FamiliarizationofNetwork HardwareDevices.
* FamiliarizationofNetworkCablesandConnectors
* FamiliarizationofColourcoding-Crimping.InternetworkingOperatingSystems-Configurations
* StudyofTCP/IPProtocolSuite.
* FamiliarizationofCiscoHub,Switch,Router,AccesspointCommands.

# Cycle2:Network configuration commands

Study of basic network command and Network configuration commands.

a. Ping

b. traceroute

c. arp

d. route

e. netstat

f. About /etc folder

g. Setting up Hostname/Setting local name resolution

**Cycle3:Socket Programming**

1. Implement two way chat application using TCP.
2. Implement two way chat application using UDP.
3. Write a socket program to implement a TCP Echo server and a TCP Echo

Client

1. Write a socket program to implement a UDP Echo server and a UDP Echo

Client

1. Implement File transfer protocol. From client machine to server specify a

folder name. Open and display all files in server and client machine.

1. Socket Programming Experiments on TCP Concurrent Server
2. Socket Programming Experiments on Broadcast.
3. Socket Programming Experiments on TCP Iterative Server

**Lab-in-charge** **Approved by**

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