

# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

## FACULTY OF TECHNOLOGY AND ENGINEERING

Smt. K. D. Patel Department of Information Technology

Subject Name: Data Communication and Networking

Subject Code: IT252

Semester: III

A.Y.: 2022-23

### Practical List

Sr. No.	Aim	Hrs.
1.	Study of basic network command and Network configuration commands. Ping            Traceroute    Ipconfig    Pathping NSlookup    Netstat        Arp        Hostname	2
2.	Study of following Network devices in detail. NIC            Hub            Switch    Router Gateway    Repeater    Bridge    Brouter	2
3.	To study different cables for data communication.	2
4.	Understand and identify Layer-2 functionality.	2
5.	Understand and identify Layer-3 functionality.	2
6.	Configuration of networking topologies using Cisco packet tracer.	2
7.	To configure network topology for Static Routing Protocol using packet tracer.	2
8.	To configure network topology for Dynamic Routing Protocol using packet tracer.	2
9.	Configure DHCP server using packet tracer.	2
10.	Capture TCP & UDP packet using wireshark and measurement of various types of Delay.	4
11.	Understand basic networking concept using Wireshark and capture ARP & ICMP Protocol Traffic.	2
12.	Presentation about latest trends in networking.	6

**Prepared By:**

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