Devang Patel Institute of Advance Technology and Research

Subject Name: Data Communication and Networking (CE/CSE)

Semester: 3rd

Subject Code: CE253

Academic Year: June 2019 - Dec 2019

Practical List

Sr. No.	Practical Aim	Hrs
1.	Configuration, Management and Administration of various networking and Internetworking Devices. • NIC • Gateway • Hub • Repeater • Switch • Bridge • Router • Cables	2
2.	Illustration of various networking commands: • ping {hostname} • netstat –nt • netstat –a • traceroute {hostname} • telnet {hostname} {port} • arp • ipconfig • host • ftp • nslookup {hostname}	2
3.	To implement straight through and cross over cable using cat 5 cable and RJ-45 connector.	2
4.	Understand basic networking concept using Wireshark.	2
5.	Analyzing packet captured using CHARUSAT intranet using Wireshark. Use of different Wireshark Display Filters.	2
6.	Capture ARP & ICMP Protocol Traffic using Wireshark.	2
7.	Understand basic networking concept using Packet Tracer.	2
8.	Configuration of different topologies in Cisco Packet Tracer to understand decision taken at each 4 layers of TCP/IP protocol stack.	2
9.	To demonstrate CHARUSAT campus network setup.	2
10.	Configure DHCP, DNS and HTTP Servers using Cisco packet tracer.	2
11.	Write a program to find the Checksum and Cyclic Redundancy Check of two binary strings.	2
12.	Demonstrate Network Simulator.	2