Practical List

Sr. No.	Practical Aim	Hrs	LO	PO	PEO
1	To compare OSI and TCP/IP protocol model.	2	3	1	7
2.	Configuration, Management and Administration of various networking and Internetworking Devices. • NIC • Hub • Switch • Router • Gateway • Repeater • Bridge • Cables	2	1,3	3	4
3.	Illustration of various networking commands: • ping {hostname} • netstat –nt • netstat –a • traceroute {hostname} • telnet {hostname} {port} • arp • ipconfig • host • ftp • nslookup {hostname}	2	3	1	7
4.	To implement straight through and cross over cable using cat 5 cable and RJ-45 connector.	2	1,3	3	4
5.	Implement sender Parity, LRC,VRC & CRC programs for input1.txt and input2.txt file	2	1	1	7
6.	Implement receiver's Parity, LRC,VRC & CRC detection programs for input1.txt and input2.txt file	2	2	3	3
7.	Understand basic networking concept using Wireshark.	2	1	1	7
8.	Analyzing packet captured using CHARUSAT intranet using Wireshark. Use of different Wireshark Display Filters.	2	1	2	7
9.	Capture ARP & ICMP Protocol Traffic using Wireshark.	2	1,3	3	4
10.	Understand basic networking concept using Packet Tracer.	2	2	3	3
11.	Configuration of different topologies in Cisco Packet Tracer to understand decision taken at each 4 layers of TCP/IP protocol stack.	2	1	2	7
12.	Understanding of Client and Server Architecture. Implementation of client and server mechanism using socket programming.	2	1	1	7
13.	Study and demonstration of internet packet capturing tool - Ethereal	2	1	2	3