II YEAR SEM-2 B.Tech CSE	LAB	L	T	P	C
CODE:CS2802	COMPUTER NETWORKS	0	0	2	2

S.NO.	OBJECTIVE OF EXPERIMENT	NO. OF HOURS REQUIRED	MODE OF TEACHING	SOFTWARE/S
1	To get familiar with basic networking commands.	3 (1 lab session)	PPT	None
2	To learn about ping command (in details)	3 (1 lab session)	PPT	Cisco Packet Tracer
3	Study different types of network cables and to practically construct the cross-wired and straight-through cables using clamping tool.	3 (1 lab session)	PPT	Cisco Packet Tracer
4	Configuring network topology using Packet tracer software and learning about the various network devices (hubs, switches, router)	6 (2 lab session)	PPT	Cisco Packet Tracer
5	Assessment 1	3 (1 lab session)	PPT	-
6	To study how distance vector routing works and configure a network using distance vector routing protocol (RIP in Packet tracer)	3 (1 lab session)	PPT	Cisco Packet Tracer
7	To study how Link state routing works and configure a network using Link state routing protocol (OSPF in Packet tracer)	3 (1 lab session)	PPT	Cisco Packet Tracer
8	To learn about DHCP	1.5	PPT	Cisco Packet Tracer
9	To learn about DNS	1.5	PPT	Cisco Packet Tracer
10	To learn about spanning tree protocol	3 (1 lab session)	PPT	Cisco Packet Tracer
11	To learn about VLAN	3 (1 lab session)	PPT	Cisco Packet Tracer
12*	Socket Programming (either C++ or JAVA implementation)	3 (1 lab session)	PPT	Cisco Packet Tracer

Total Lab Sessions Required: 12

Text Books
1. Computer Networks, Andrew S. Tanenbaum, 4e, Pearson Education.
2. Data Communications and Networking, Behrouz A. Forouzan, 4e , Tata McGraw Hill.