PUNE INSTITUTE OF COMPUTER TECHNOLOGY

DHANKAWADI, PUNE –43

SCHEDULE OF LAB EXPERIMENTS ACADEMIC YEAR: 2021- 2022

Date: 12/07/2021

Department: Computer Engineering Subject code:310247

Class: T.E. Semester: I

Subject Name: CNSL Exam. scheme: TW-25, OR-25

Exp t. No.	Problem Statement	Last Date for performance
A1	Setup a wired LAN using Layer 2 Switch. It includes preparation of cable, testing of cable using line tester, configuration machine using IP addresses, testing using PING utility and demonstrating the PING packets captured traces using Wireshark Packet Analyzer Tool.	26/07/2021
A2	Setup a WAN which contains wired as well as wireless LAN by using a packet tracer tool. Demonstrate transfer of a packet from LAN 1 (wired LAN) to LAN2 (Wireless LAN).	31/07/2021
A3	Write a program for error detection and correction for 7/8 bits ASCII codes using Hamming Codes or CRC.	16/08/2021
A4	Write a program to simulate Go back N and Selective Repeat Modes of Sliding Window Protocol in Peer-to-Peer mode.	23/08/2021
B1	Write a program to demonstrate Sub-netting and find Subnet masks.	30/08/2021
B2	Use packet Tracer tool for configuration of 3 router network using one of the following protocol RIP/OSPF/BGP.	06/09/2021
В3	Write a program using TCP socket for wired network for following a. Say Hello to Each other b. File transfer c. Calculator	13/09/2021

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B4	Write a program using UDP Sockets to enable file transfer (Script, Text, Audio and Video one file each) between two machines.	20/09/2021
C1	Write a program for DNS lookup. Given an IP address as input, it should return URL and vice-versa.	27/09/2021
C2	Installing and configure DHCP server and write a program to install the software on remote machine.	04/10/2021
C3	Study and Analyze the performance of HTTP, HTTPS and FTP protocol using Packet tracer tool.	04/10/2021
C4	To study the SSL protocol by capturing the packets using Wireshark tool while visiting any SSL secured website (banking, e-commerce etc.).	11/10/2021
C5	To study the IPsec (ESP and AH) protocol by capturing the packets using Wireshark tool.	11/10/2021

Subject Coordinator

Head, Dept. of Comp. Engg.

Prof. M. S. Chavan

Prof. M. S. Takalikar

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