RAJALAKSHMI ENGINEERING COLLEGE

**An Autonomous Institution, Affiliated to Anna University Rajalakshmi Nagar,
Thandalam – 602 105**

R-2023
V SEMESTER

B.Tech. – Artificial Intelligence & Data Science

CS 23532- Computer Networks
LABORATORY MANUAL

Name	: . Sivasamy R M. . . . .
Register No.	: . . 231801168. . . . .
Year / Branch:	. . . . . 3 / A I & D S . . . .
Semester	: . . . . .V. . . . .
Academic Year	: 2025-26

BONAFIDE CERTIFICATE

NAME ....

ACADEMIC YEAR .... SEMESTER ....BRANCH..............................

UNIVERSITY REGISTER No. [   ]

Certified that this is the bonafide record of work done by the above student in the

.... Laboratory during the year **20   - 20**
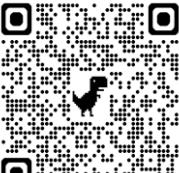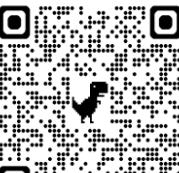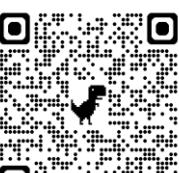
Signature of Faculty - in - Charge

Submitted for the Practical Examination held

on............................

Internal Examiner   **External Examiner**

INDEX

S. No.	Name of the Experiment	Date	Github QR	Faculty Sign
1	Study of various Network commands used in Linux and Windows	22/07/2025		
2	Study of Network cables	22/07/2025		
3	Experiments on CISCO PACKET TRACER (Simulation Tool)	26/07/2025		
4	Setup and configure a LAN (Local area network) using a Switch and Ethernet cables in your lab	29/07/2025		
5	Experiments on Packet capture tool: Wireshark	02/08/2025		

6	Error Correction at Data Link Layer	12/08/2025		
7	Flow control at Data Link Layer	16/09/2025		
8	NMAP to Discover Live Hosts Using Nmap Scans (ARP, ICMP, TCP/UDP) on the TryHackMe Platform	27/09/2025		
9	Implementation of SUBNETTING in CISCO PACKET TRACER simulator.	30/9/2025		
10	Internet working with routers in CISCO PACKETTRACER simulator	09/10/2025		
11	Routing at Network Layer	17/10/2025		

12	End –End Communication at Transport Layer	18/10/2025		
13	Implement your own ping program.	20/10/2025		
14	Write a code using RAW sockets to implement packet sniffing.	22/10/2025		
15	Analyse various types of servers using Webalizer tool	24/10/1025		