A REPORT ON WORKSHOP-CYBER THREAT ANALYSIS AND ENCRYPTION

Organized by : Department of Computer Science and Engineering

Event : Two-day workshop on Cyber Threat Analysis and Encryption

Venue : SH-106

Date : 16/10/2024 to 17/10/2024

Time : 9:00AM - 4:50PM

Resource person : Mr. Udutha Shashidhar

Participants

S. No	Year & Branch	No. of Students Participated	No. of Faculty Participated
1	III-CSE	71	05

About the workshop

A two-day hands-on workshop focusing on cyber threat analysis, encryption techniques, and practical penetration-testing tools. The workshop combined theoretical sessions with live demos and practical labs covering phishing toolkits, network scanning, packet analysis, virtualization for safe testing, and ethical hacking tricks. A competitive exercise was organized to test participants' applied skills; prizes and course access were awarded to top performers.

Topics Covered

Core Topics

- Introduction to cyber threat landscape and basic concepts
- Encryption basics: symmetric vs asymmetric, hashing, certificates
- Ethical considerations and legal responsibilities in cybersecurity

Tools & Practical Sessions

- **CamPhisher / Zphisher** — phishing toolkits (live demo and safe lab practice)
- **VMware Workstation** — setting up isolated virtual labs for testing
- **Nmap** — network discovery and port scanning fundamentals
- **Wire shark** — packet capture and protocol analysis
- **Basic hacking tricks & penetration testing methodology** — reconnaissance, scanning, exploitation (demonstrated ethically)

Hands-on Labs & Activities

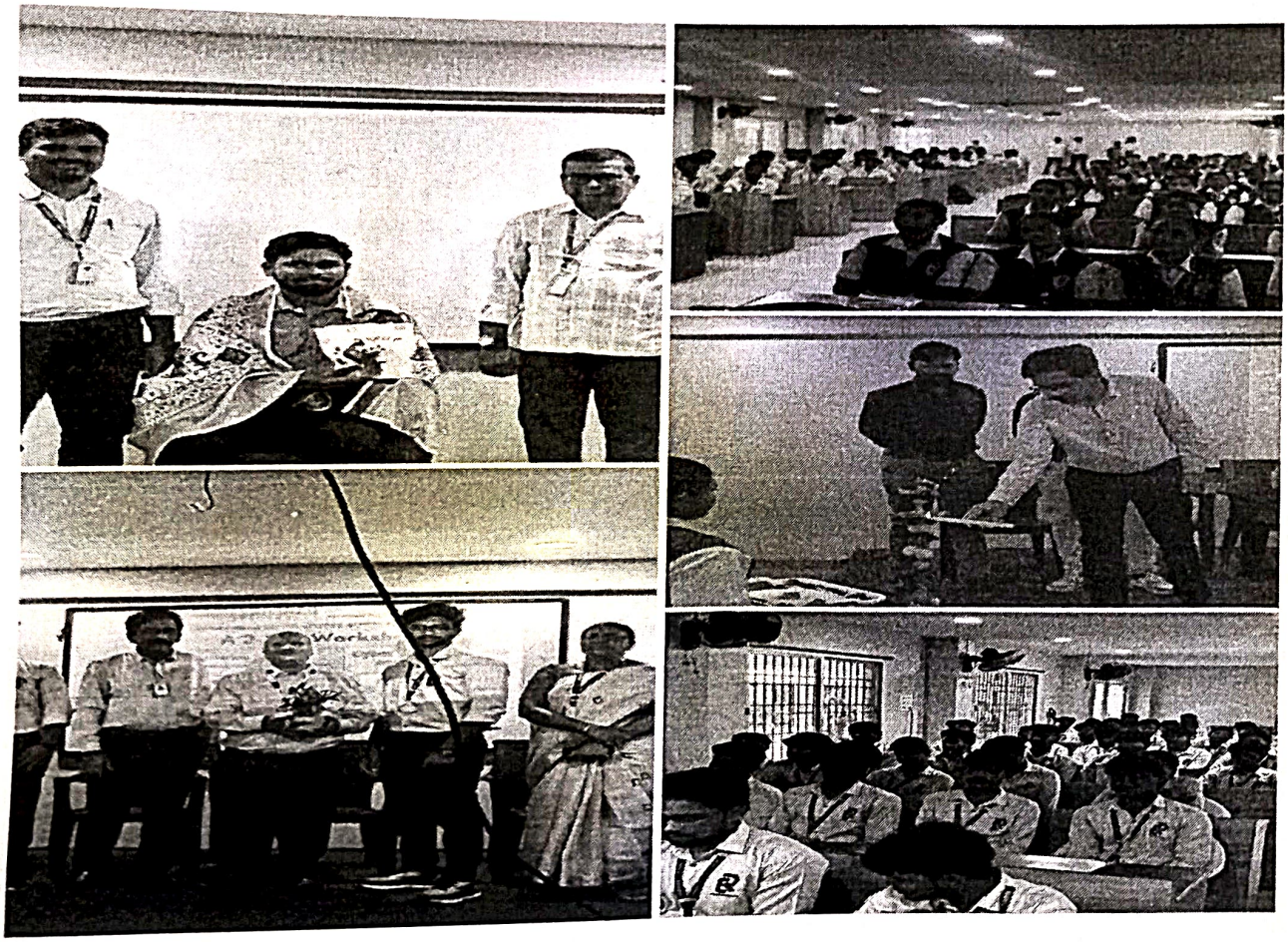
- Setting up vulnerable lab machines inside VMware Workstation
- Building a phishing page using Zphisher/CamPhisher (demo only in isolated lab)
- Performing network scans with Nmap and interpreting results
- Capturing and analysing traffic with Wire shark to identify suspicious packets
- Applying basic encryption examples and verifying integrity/hashes

Live demonstration of common misconfigurations and mitigations

Resources & References Provided

- Links and documentation for tools covered (Nmap, Wireshark, Zphisher/CamPhisher, VMware Workstation)
- Sample lab instructions and step-by-step guides used during the workshop
- Certificates (to be attached by the department if applicable)

GLIMPES OF THE EVENT



Event Coordinators **HOD** **Principal**