DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

REPORT ON

"Skill Training Program"

DATE : 5th January 2026 Monday to 9th January 2026

VENUE :1st Floor (Block C-1-18) Seminar Hall, Women's Building.

TOPIC: Hands-on Networking Skills

Expert Name:- Mr. Rahul Gaurav, Jetking Info train Ltd, Nagpur

Introduction

The Department of Cyber Security organized a 5-day session on "Hands-on Networking Skills" led by Mr. Rahul Gaurav, a renowned technical trainer. The program aimed to provide students with a comprehensive understanding of networking principles, practical skills, and exposure to real-world tools and techniques used in the field. Each day consisted of two sessions: a theoretical session in the morning and a practical session in the afternoon.

About the Trainer

Mr. Rahul Gaurav is an experienced IT professional with a strong background in hardware, networking, and technical support. He has hands-on expertise in OS and application installations, system recovery, troubleshooting hardware and network issues, and providing remote and desk-side support. Rahul has supported over 3500 users and has worked extensively with Windows 10/11, network devices, printers, and LAN setups. Currently, he serves as a Technical Trainer, mentoring students in network engineering concepts and overseeing technical operations. He is passionate about technology, learning, and sharing knowledge with aspiring IT professionals.

Session Highlights

Day 1: Basics Of Networking

- **Morning Session:**
  - Introduction to computer networks and their importance in today's digital world.
  - Introduction to OSI and TCP/IP models with layer-wise functions.
  - Basics of IP addressing, difference between IPv4 & Ipv6 and types of networking.
- **Afternoon Session:**
  - Real-world examples of wired and wireless networking.
  - Practical session on sub-nettings.

Day 2: Concepts of DHCP and DNS

- **Morning Session:**
  - Introduction to DHCP and DNS and their role in network communications.
  - Understanding how DHCP automatically assigns IP addresses to network devices.
- **Afternoon Session:**
  - Introduction to DNS and how it converts domain names into IP addresses.
  - Techniques on DNS and practical session on man in the middle attack, 3 way handshakes.

Day 3: Introduction to CEH

- **Morning Session:**
  - Overview of CEH and its importance in modern cybersecurity.
  - Types of hackers, types of crimes and different types of cyber attacks.
- **Afternoon Session:**
  - Practical session on kali and honeypot.
  - Real world demonstrations over passive reconnaissance tools like CamPhish, The Harvester and Zphisher

Day 4: Spoofing and Session Hijacking

- **Morning Session:**
  - **IP Spoofing** – Fake IP address to look like a trusted system.
  - **ARP Spoofing** – Associate attacker's MAC with victim's IP
  - Packet analysis with Wireshark.
- **Afternoon Session:**
  - Techniques to perform active and passive Session Hijacking.
  - Practical on cracking passwords by using the tools like Burpsuite and Ettercap.

Day 5: Wi-fi Hacking

- **Morning Session:**
  - Theoretical knowledge about Wi-fi hacking.
  - SWOC analysis of Students by Mr. Rahul Gaurav Sir.
  - Discussion about Short-term and Long-term goals of students.
- **Afternoon Session:**
  - Practical implementation about Wi-fi hacking.
  - Interactive Q&A session for addressing doubts and feedback from students.

Key Learnings

- Foundational understanding of cybersecurity concepts of networking and its terminology.
- Hands-on experience with tools such as Kali Linux, Burp Suite, Wireshark, and Aircrack-ng, Ettercap, Honeypot, etc.
- Practical knowledge of password cracking and network exploitation.
- Advanced techniques for networking like switches, routers ,network packet tracing, etc.

Conclusion

The 5-day session conducted by Mr. Rahul Gaurav provided an overview of **Networking, Certified Ethical Hacking (CEH), and Password Cracking**, highlighting their importance in today's digital world. Networking forms the backbone of communication by enabling devices to share data efficiently. CEH plays a crucial role in cybersecurity by training professionals to identify and fix security vulnerabilities before attackers can exploit them. Password cracking was discussed to understand common attack methods and the risks of weak passwords. Overall, the study emphasizes that strong security practices, ethical hacking skills, and user awareness are essential to protect systems and data from cyber threats.

Glimpses of Experts Lecture on "Skill Training Program"



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