A Report on One Week Hands on Workshop cum Hackathon on "Ethical Hacking and Cyber Security (Level-1)"

Organized by Department of Computer Science & Engineering (Cyber Security)

In association with Industry Institute Interaction Cell and ISTE Student Chapter

from 29.12.2025 to 04.01.2026

Report Submitted by: Mr. M. Mutharasu Assistant Professor, Department of C.S.E (CS); Mrs. M. Fathima Begum, Assistant Professor, Department of C.S.E (CS).

Resource Person Details: Mr. Santosh Chaluvadi, Founder & CEO, Mr. S. Kumar (Security Analyst), Mr. Krishna (Security Analyst) Mr. Hafeed (Mentor)SuprajaTechnologies, Vijayawada.

Venue: Seminar Hall B.

Attendance: 132 Participants.

Mode of Conduct: Offline.

Report Received on 09.01.2026.

Program Overview:

The program commenced at 10:00 AM with a welcome address by Dr. Chandra Prakash Gupta, Dean-School of Computing and Dr. K.P.Manikandan, Assistant Professor/CSE-CS, who introduced the resource person, Mr. Santosh Chaluvadi, Founder& CEO of Supraja Technologies, Vijayawada - Andhra Pradesh. Mr. M. Mutharasu began the session by expressing his gratitude to the participants, organizing committee, Head of the department, Principal, and Management of MITS for the opportunity to share his insights on Ethical Hacking and Cyber Security.

Topics Covered in the Six-Day Workshop:

S.No	Date	Topics Covered
1	29.12.2025	1.Terminologies in Cyber security 2.Basic tools used in Cyber security 3.Sniffing 4.Wireshark procedure
2	30.12.2025	1.Http response status code 2.Virtualization 3.Challenges using wireshark 4.Social Engineering
3	31.12.2025	1.Types of attacks in social engineering 2.pyphisher tool 3.Zphisher 4.Phases of hacking 5.Phases of ethical hacking 6.Steganography 7.Types of steganography

4	01.01.2026	1.Tools used for different types of steganography 2.Session hijacking 3.Email spoofing 4.Password cracking 5.Google dorking 6.Types of google dorking
5	02.01.2026	1.Burp suite 2.Price tampering and its mitigations 3.Cart tampering and its mitigations 4.OTP Bypass and its mitigations 5.Cryptography 6.SQL Authentication bypass
6	03.01.2026	Hackathon (Level 1 and Level 2)
7	04.01.2026	Hackathon (Level 3 and Level 4)

Cyber Security Tools Installation:

This section focuses on installing and configuring various tools that are commonly used in ethical hacking, including:

- Kali Linux(Common OS for Security Testing)
- Wireshark (Packet Sniffer)
- Deep sound(steganography tool)
- QuickStego
- Snow (Snowstegano)

Program Outcomes:

- Understanding of Ethical Hacking Principles
- Knowledge of Networking Fundamentals
- Hands-on Experience with Cyber security Tools
- Understanding Phases of Hacking
- Understanding Cryptographic Concepts
- Implementation of Sniffing and Steganography Techniques
- Gaining Proficiency with Virtualization and Advanced Commands
- Gaining Google Dorking for Security Research
- Understanding and Applying Password Cracking Techniques
- Understanding Social Engineering Tactics
- Malware Identification and Analysis
- Understanding and Defending Against Email Spoofing
- SQL Injection and Web Application Security
- Clearing Tracks and Maintaining Security
- Practical Understanding of Cyber Threats and Mitigation Techniques
- Hands-on Experience in Security Testing
- Enhanced Cybersecurity Awareness
- Code, Collaborate, Create: The Hackathon Experience.

Facilitating the Resource Persons:

Celebrating the Hackathon's Top Performer:

Conclusion:

The session provided an in-depth understanding of the Ethical Hacking and Cyber Security with a focus on Cyber Security tools. Mr. Kumar (Security Analyst), Mr. Krishna (Security Analyst), Mr. Hafeed (Mentor) presentation offered a comprehensive overview of the Ethical hacking and tools its potential applications, and the challenges ahead. The active participation, engaging sessions, and mentorship activities contributed to a dynamic learning experience in the field helped bridge the gap between theoretical knowledge and practical implementation.