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ACADEMIC YEAR: 2025-26 (ODD SEMESTER)
Department of Computer Engineering

ACE/CMPN/FR/20/2025-26

DATE: 29/08/2025

Report on "Hands on Workshop on Ethical Hacking"

Event Name:	Workshop on "**Hands on Workshop on Ethical Hacking**"
College/Institute Name:	Atharva College of Engineering
Date and Time:	29th Aug 2025
Venue:	Smart classroom 1 , 5th floor, Phase 1, ACE
Speaker Name and Designation	Mr. Sandip Gavit Founder & Director- Techno Hacks Solution
Topic of Event:	Workshop on "**Hands on Workshop on Ethical Hacking**"
Mode of conduction:	Offline mode
Coordinators of the Event:	Ms. Anuja Gaikwad, Ms. Shweta Shukla
Targeted Audience:	Students of CMPN Dept.
No. of Participants:	115

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Brief Description of Event:	**Objectives of the Event:** ● To introduce the concept of ethical hacking and its importance in the modern digital world. ● To provide hands-on experience with real-world hacking tools and techniques. ● To develop awareness about common security threats, such as phishing, malware, DoS attacks, and SQL injections. ● To demonstrate how ethical hackers think and act to secure systems. ● To promote career opportunities in the field of cybersecurity. **Workshop Content and Activities:** The workshop was divided into multiple sessions, covering both theoretical foundations and practical exercises. The key topics covered included: ● **Introduction to Ethical Hacking:** Definitions, scope, legality, and certifications (CEH, OSCP, etc.) ● **Footprinting and Reconnaissance:** Gathering information using tools like Whois, nslookup, and Google hacking. ● **Scanning Networks:** Using tools such as Nmap and Zenmap for network discovery and vulnerability scanning. ● **System Hacking:** Demonstrations of password cracking, privilege escalation, and keylogging. ● **Web Application Security:** Identifying common vulnerabilities (like XSS and SQLi) and protecting web applications. ● **Wireless Network Security:** Analyzing vulnerabilities in Wi-Fi networks using Aircrack-ng. ● **Countermeasures and Best Practices:** Strategies to mitigate attacks and protect systems.

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Each topic was supplemented with live demonstrations and hands-on exercises, allowing participants to actively engage with the tools and simulate real-world attack scenarios in a controlled environment.

Tools and Technologies Used

- **Kali Linux** – A popular Linux distribution for penetration testing.
- **Nmap** – For network scanning.
- **Wireshark** – For packet analysis.
- **Metasploit Framework** – For exploitation.
- **Burp Suite** – For web application testing.
- **Aircrack-ng** – For wireless hacking.
- **Hydra** – For brute-force attacks.

Outcomes:

- The workshop successfully met its objectives by providing participants with foundational knowledge and practical skills in ethical hacking.
- The interactive format, real-time problem-solving, and expert guidance were particularly appreciated by attendees.
- The Hands-on Workshop on Ethical Hacking proved to be a valuable learning experience, bridging the gap between theoretical knowledge and practical implementation.
- In today's rapidly evolving digital landscape, such initiatives are crucial for developing skilled professionals who can contribute to cybersecurity and the ethical management of information systems.
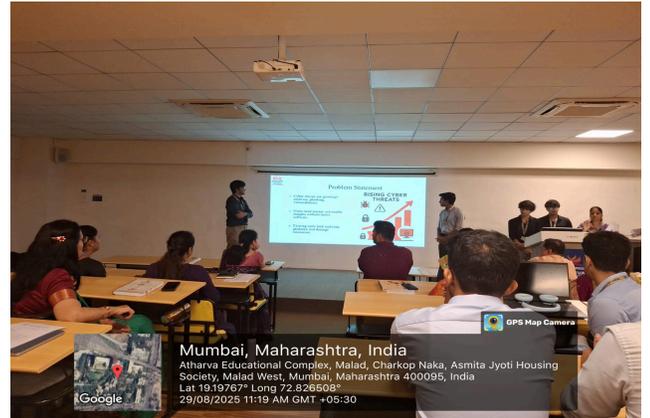
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Photographs of the Event:

Prof. Anuja Gaikwad

Prof. Shweta Shukla
Seminar/Workshop
Coordinators

Prof. Mahendra Patil
Head of Department

Dr.Ramesh Kulkarni
Principal