



# XAVIER INSTITUTE OF ENGINEERING

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Recognized by DTE, Govt. of Maharashtra)  
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Mahim Causeway, Mahim, Mumbai - 400 016 • Phone : +91 7249371505 / +91 9920407274  
Email ID : office@xavier.ac.in • Website : www.xavier.ac.in



## Value Added Course

The XIE-IET On Campus hosted a five-day Value Added Course on "Cyber Sentinel: Ethical Hacking & Pentesting Certification" from December 27-31, 2024. The course aimed to equip participants with essential knowledge and hands-on experience in Vulnerability Assessment and Penetration Testing (VAPT), web application security, bug bounty hunting, and core cybersecurity principles.

The event featured interactive discussions, practical demonstrations, and a series of hands-on sessions that encouraged participants to actively engage in the learning process. Prominent cybersecurity methodologies such as OSINT tools, reconnaissance techniques, and VAPT frameworks were covered extensively.

### **Objective:**

- To introduce participants to cybersecurity fundamentals, focusing on vulnerability assessment and penetration testing methodologies.
- To equip students with practical skills for recognizing and mitigating security vulnerabilities.
- To align participants' knowledge with industry standards such as PTES and OWASP.

**Beneficiaries:** Second and third Year Engineering students.

**Number of Participants:** 35 Participants.

**Venue:** Computer Center of Department of Computer Engineering.

**Date / Duration:** 27th December 2024 to 31st December 2024.

### **Trainer Details:**

Name	Designation with Employer Details	Address
Mr. Uddesh Vaidya	Cyber Security Analyst, Hacktify Cyber Security	Mumbai
Dr. Rohit Gautam	CISO, Hacktify	Mumbai
Dr. Shifa Cyclewala	CEO, Hacktify	Mumbai



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1. **Day 1: Introduction to VAPT and Reconnaissance**
    - Event host welcomed guests and introduced the event.
    - Speaker, Mr. Uddesh Vaidya, explained the **VAPT Methodology**.
    - OSINT tools for reconnaissance and bug bounty basics were demonstrated.
    - Hands-on session with key vulnerability assessment tools.
    - Guests included **Mr. Uddesh Vaidya** (main speaker), **Dr. Rohit Gautam**, and **Dr. Shifa Cyclewala** (both attended briefly).
  2. **Day 2: Web Application Attack Techniques**
    - Covered techniques in two parts.
    - Participants engaged in hands-on practice for web application attack methods.
  3. **Day 3: Web Application Scanning and Core Defense Mechanisms**
    - Explored web application scanning and traffic interception.
    - Covered defense mechanisms and countermeasures.
    - Practical application during hands-on sessions.
  4. **Day 4: Offensive and Defensive Security Techniques**
    - Offensive security strategies used by Red Teams.
    - Defensive techniques employed by Blue Teams.
    - Participants gained practical exposure through hands-on sessions.
  5. **Day 5: Bug Bounty Hunting and Program Reporting**
    - Focused on practical bug bounty hunting techniques.
    - Discussed the process of reporting vulnerabilities in bug bounty programs.
    - Assessment test conducted to evaluate participants' learning.
    - Vote of thanks delivered by the event host.
- 

## Key Takeaways

1. **Understanding VAPT:**
  - **Vulnerability:** Identify weaknesses in systems.
  - **Assessment:** Evaluate risks and prioritize mitigation strategies.
  - **Penetration Testing:** Simulate real-world attacks to uncover vulnerabilities.
2. **OSINT Techniques and Reconnaissance Tools:**
  - Search engine techniques.
  - WHOIS records analysis.
  - Tools like The Harvester and Google Dorks cheat codes.
3. **OWASP Framework:**
  - Core focus on OWASP Top 10 vulnerabilities, including injection flaws, cryptographic failures, and server-side request forgery.
  - Aligning practices with industry standards to enhance security posture.
4. **Phases of VAPT:**
  - Information gathering.
  - Threat modeling.
  - Vulnerability analysis and exploitation.



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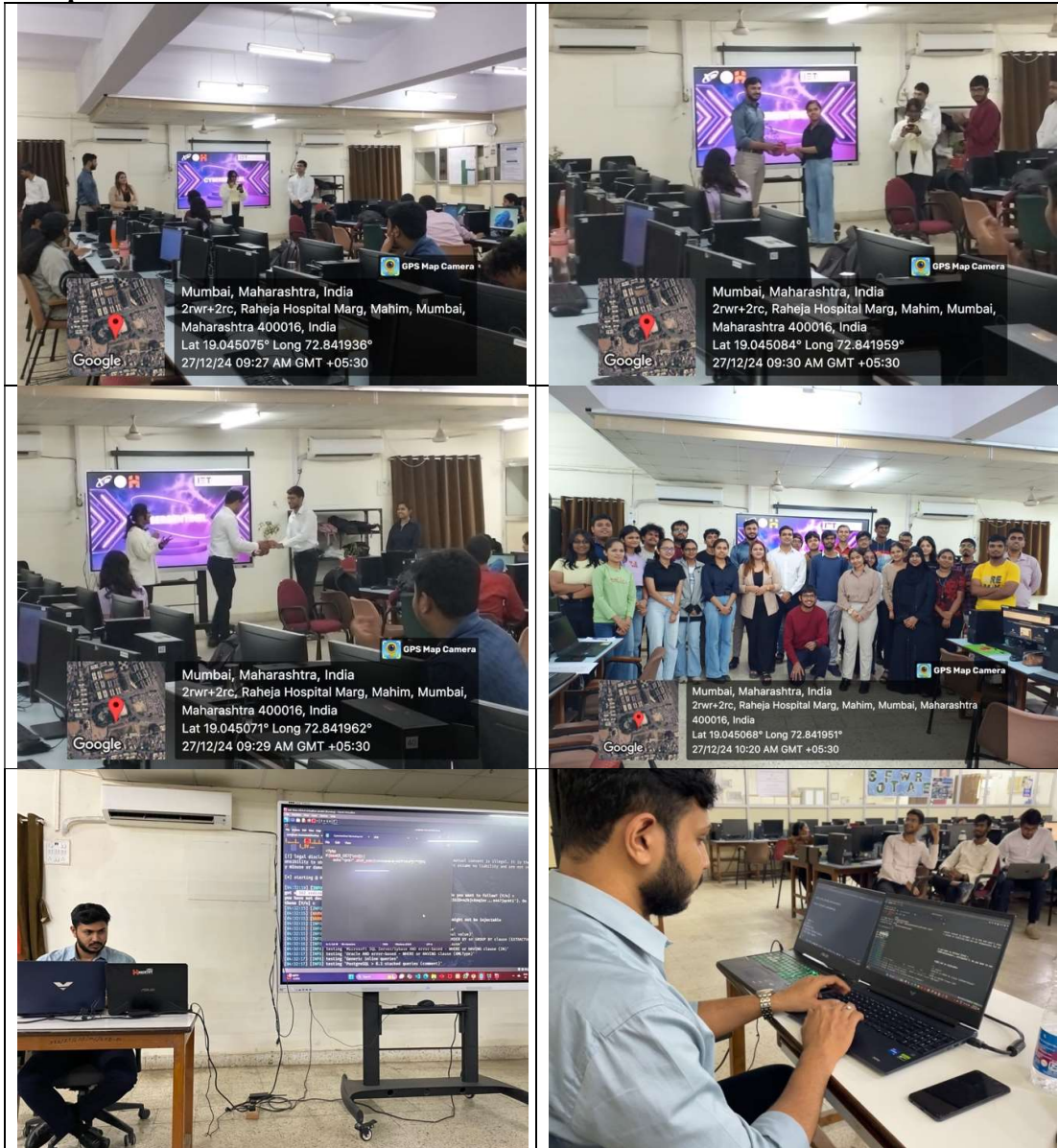
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- Reporting and documentation.
5. **Ethical Considerations:**
- Testing authorization protocols.
  - Avoiding unintended service disruptions.

## Glimpse of the event:



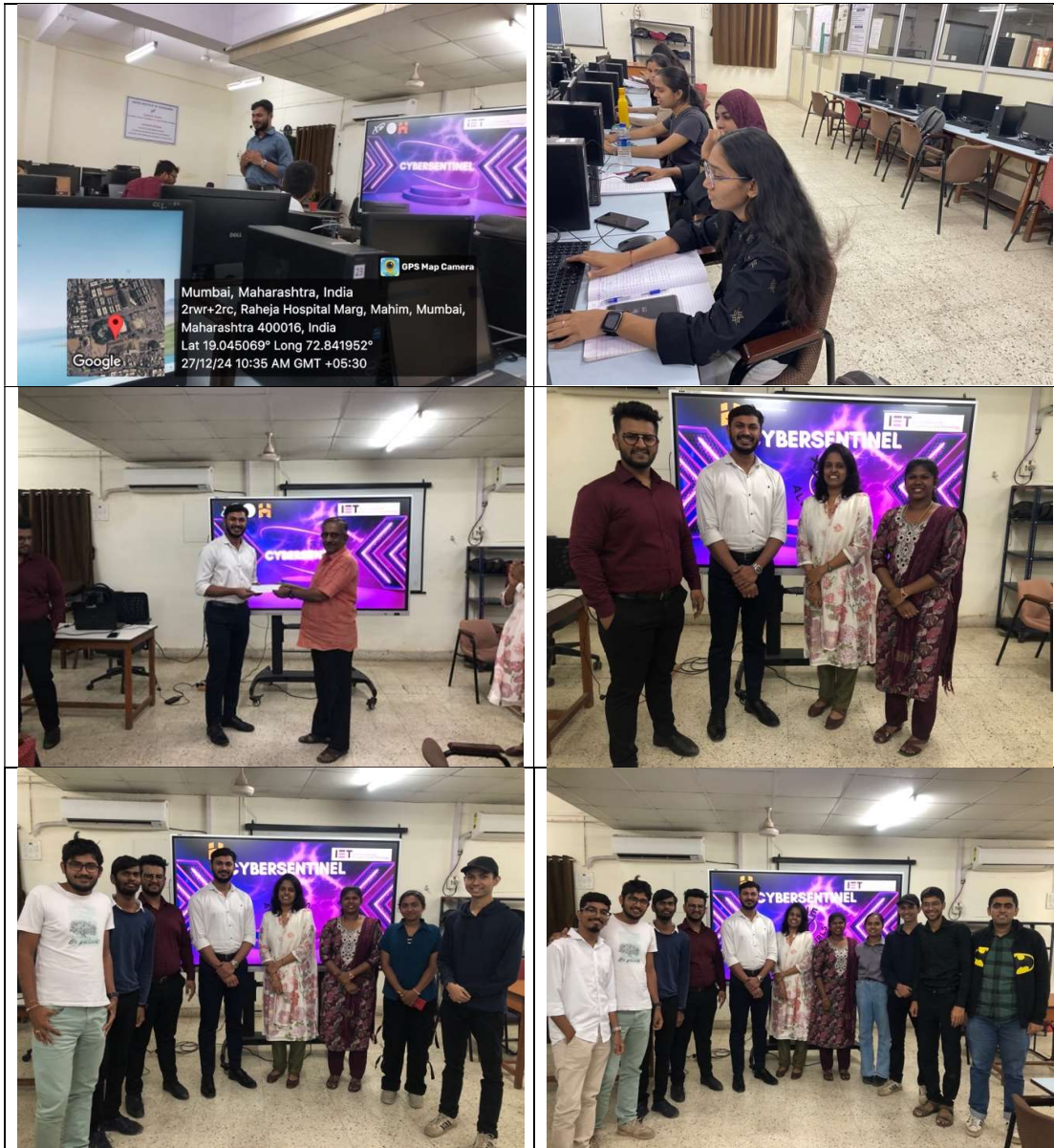


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## LET The Institution of Engineering and Technology





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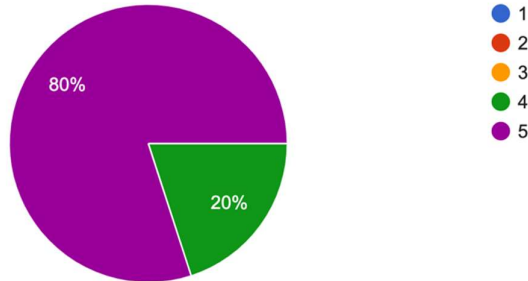
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## Feedback Analysis from Students:

Overall Rating of Event (5-High, 3-Medium, 1-Low)

10 responses





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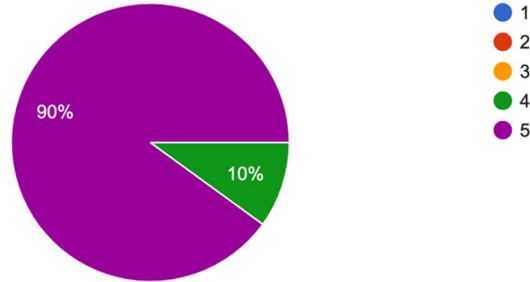
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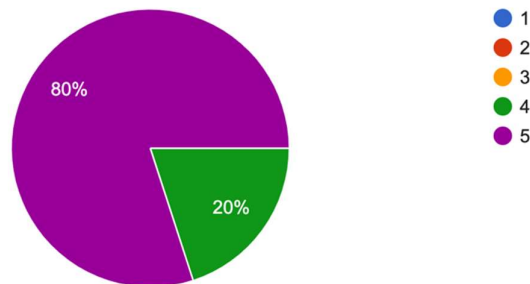
Were the topics covered relevant and helpful? (5-High, 3-Medium, 1-Low)

10 responses



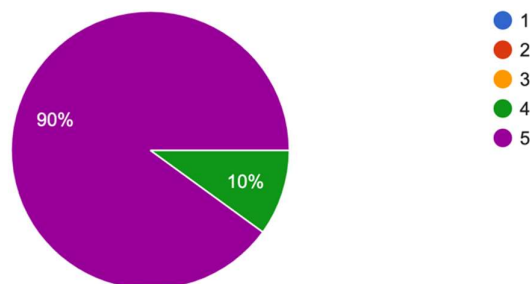
Was the pace of the sessions appropriate (5-High, 3-Medium, 1-Low)

10 responses



Knowledge and Expertise of Trainers: (5-High, 3-Medium, 1-Low)

10 responses





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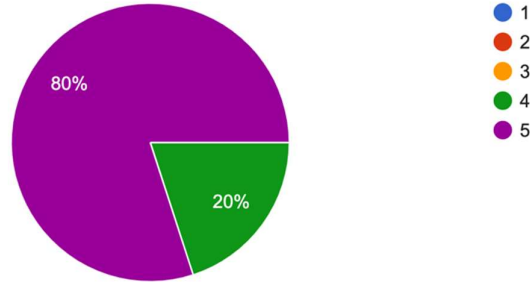
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Was the pace of the sessions appropriate (5-High, 3-Medium, 1-Low)

10 responses



Any Additional Comments or Suggestions:

Need more such sessions/ Workshops by Respected Sir/ Team.

Need more sessions like these.

NA

Good

## MAPPING OF EVENT OUTCOME WITH POs/PSOs:

#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
EO1	3	3	3	3	3	2	2	2	3	3	2	2	2	2
EO2	3	3	3	3	3	2	2	2	3	3	2	2	2	2

**Dr. Vaishali Gaikwad**  
Associate Professor  
XIE-IET On Campus Convener