J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS)

Bhaskar Nagar, Moinabad Mandal, R.R. District, Hyderabad -500075

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Report on Report on Workshop cum Guest Lecture: on "Cyber Kill Chain: Live Hacking Simulation from Attack to Defense"

1. Introduction

A highly interactive and practical **workshop on cyber security** was organized by the Department of Computer Science & Engineering **on 31st January 2026**. The session, titled "**Cyber Kill Chain: Live Hacking Simulation from Attack to Defense**," was conducted by **Mr. M. Uday Kiran**, a seasoned cyber security professional with over 20 years of industry experience. The workshop aimed to bridge the gap between theoretical knowledge and real-world cyber threat scenarios through live demonstrations and hands-on learning.

2. About the Speaker

Mr.Uday Kiran Mudigonda is a distinguished cyber security expert with extensive experience in networking, systems, and security operations. His academic and professional credentials include:

M.Tech (IT) from BITS, Hyderabad

Industry Certifications: CCNP Security, CCNP Routing & Switching, OSCP (Offensive Security Certified Professional), and ISO 27001 Lead Auditor

Professional Experience: Previously worked with ADP (India), Dimension Data (London), and Vodafone (Scotland)

Current Role: Director of Cyvero, providing cyber security training, consulting, VAPT testing, and network solutions

Mr. Kiran has trained thousands of professionals and worked with enterprises and government organizations, making him a highly credible voice in the field of cyber security.

3. Workshop Objectives

The workshop was designed to:

- Demonstrate the stages of a cyber attack using the Cyber Kill Chain framework
- Simulate real-world hacking techniques in a controlled environment
- Equip participants with defensive strategies and countermeasures
- Provide insights into industry best practices and tools used in cybersecurity

4. Session Overview

The session began with an introduction to the Cyber Kill Chain model, which outlines the step-by-step process of a cyber attack—from reconnaissance to exfiltration. Mr. Kiran emphasized the importance of understanding each phase to build effective defenses.

Key Activities Covered:

- ❖ Live Hacking Simulation: Mr. Kiran demonstrated how attackers perform reconnaissance, weaponization, delivery, exploitation, installation, command & control, and actions on objectives.

- ❖ Hands-On Lab Exercises: Participants engaged in practical exercises using virtual labs to identify vulnerabilities and apply mitigation techniques.

- ❖ Defensive Strategies: The speaker highlighted tools and methodologies used by cyber security professionals to detect, prevent, and respond to attacks.

- ❖ Q&A Session: An interactive discussion allowed students and faculty to clarify doubts and explore career opportunities in cyber security.

5. Learning Outcomes

Participants gained:

- A clear understanding of the Cyber Kill Chain and its relevance in modern threat landscapes
- Practical exposure to ethical hacking tools and techniques
- Awareness of defensive mechanisms and security best practices
- Insight into the role of certifications like OSCP and CCNP Security in building a cyber-security career

6. Feedback and Engagement

The workshop received an enthusiastic response from students and faculty. The live demonstrations and real-time simulations kept the audience engaged throughout the session. Mr. Kiran's industry anecdotes and practical advice were highly appreciated.

7. Conclusion

The workshop successfully provided a comprehensive, hands-on learning experience in cybersecurity. By combining theoretical frameworks with live hacking simulations, it empowered participants to think like both attackers and defenders—a critical skill in today's digital world. The Department of Computer Science & Engineering looks forward to organizing more such industry-aligned sessions in the future.

8. Coverage

Event photographs are given below.

HOD, CSE


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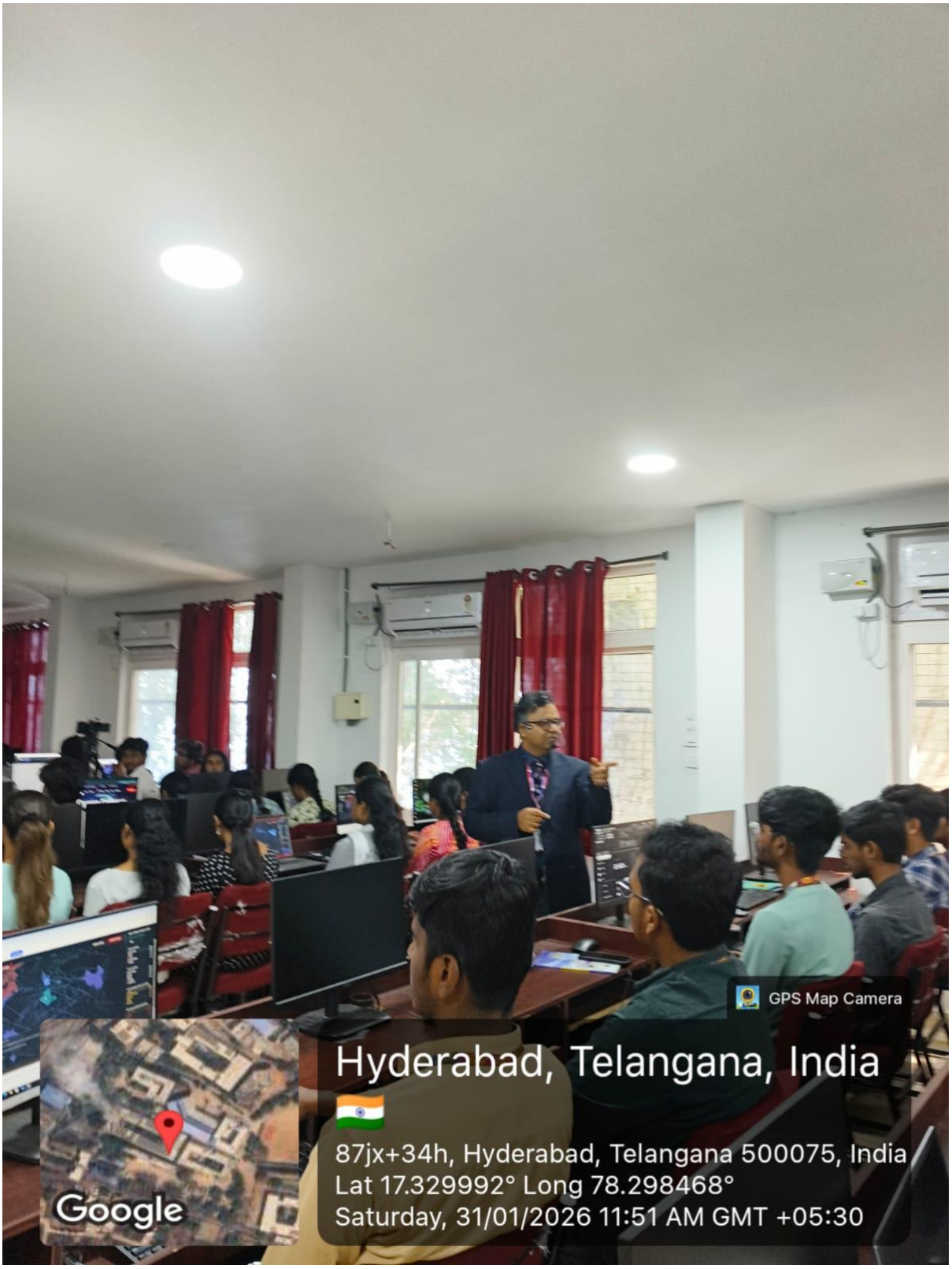
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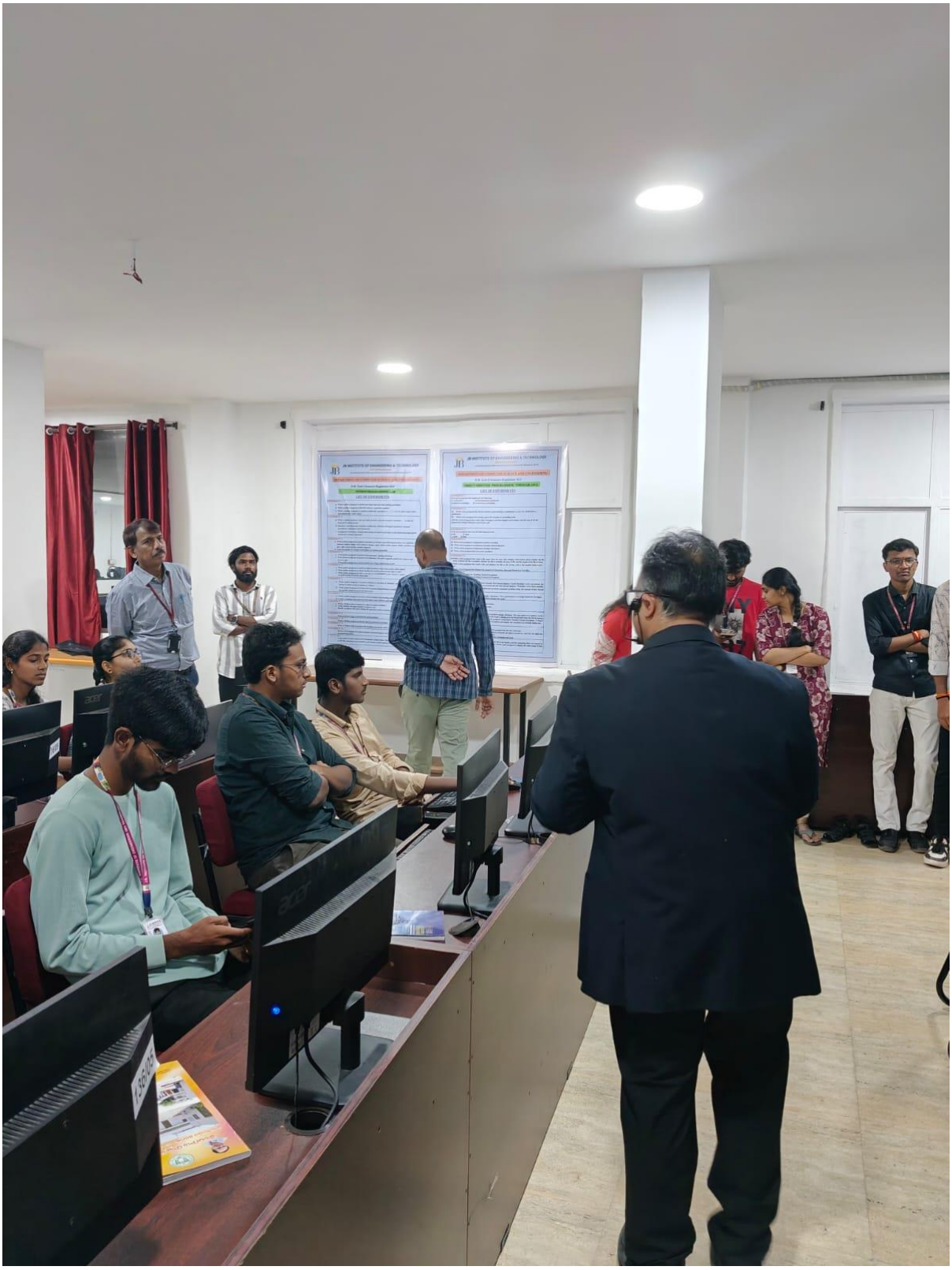


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