DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT – ONLINE SEMINAR ON "CYBER SECURITY: EMERGING THREATS AND DEFENCE STRATEGIES"

Title: An Online Seminar on "Cyber Security: Emerging Threats and Defence Strategies"

Date: 03 September 2026

Time: 10:00 AM – 12:00 PM

Venue: Intel Lab, AVIT

Organized By: Department of Computer Science and Engineering in association with CYFENCE Club, AVIT

Introduction

The Department of Computer Science and Engineering, Aarupadai Veedu Institute of Technology, in association with **CYFENCE Club, AVIT**, organized an online seminar titled **"Cyber Security: Emerging Threats and Defence Strategies"** on **03 September 2026** at the Intel Lab, AVIT. The seminar was designed to enhance students' awareness and understanding of emerging cybersecurity threats and the defence strategies required to protect modern digital environments.

With the rapid growth of digital technologies, cloud computing, artificial intelligence, online services, connected devices, and digital transactions, the cybersecurity landscape is continuously evolving. The seminar provided students with an opportunity to understand the changing nature of cyber threats and the importance of adopting effective security practices.

The session was handled by **Mr. Anurag Sinha, AI Trust & Safety Engineer, CEH (Certified Ethical Hacker), CHFI (Computer Hacking Forensic Investigator), GBIT India Pvt. Ltd., Hyderabad**. His professional experience provided valuable industry-oriented insights into cybersecurity challenges, emerging threats, and strategies for strengthening digital security.

The seminar followed an informative and application-oriented approach, enabling students to relate cybersecurity concepts to real-world security challenges and defence mechanisms.

Objective of the Seminar

- Create awareness among students about the evolving cybersecurity threat landscape.
- Strengthen students' understanding of emerging cyber threats and vulnerabilities.
- Introduce effective defence strategies and cybersecurity best practices.
- Familiarise students with the importance of ethical hacking and security awareness.
- Highlight the role of cybersecurity professionals in protecting digital systems and information.
- Provide students with industry-oriented insights into cybersecurity practices and career opportunities.

Seminar Proceedings

The seminar commenced at **10:00 AM at the Intel Lab, AVIT**, with an introductory session highlighting the growing importance of cybersecurity in today's increasingly connected digital environment.

The resource person, **Mr. Anurag Sinha, AI Trust & Safety Engineer, GBIT India Pvt. Ltd., Hyderabad**, provided an industry-oriented discussion on **emerging cybersecurity threats and defence strategies**. The session focused on the changing cybersecurity landscape and the need for individuals and organisations to adopt proactive approaches towards digital security.

The seminar addressed the significance of identifying emerging threats, understanding vulnerabilities, and implementing appropriate security measures to safeguard digital systems, networks, applications, and information. The discussion also highlighted the importance of security awareness, responsible digital practices, and continuous monitoring in reducing cybersecurity risks.

The resource person shared practical and industry-oriented insights based on his professional experience in **AI Trust & Safety, Ethical Hacking, and Computer Hacking Forensic Investigation**. Students gained a broader perspective on the challenges faced by cybersecurity professionals while responding to modern cyber threats.

An interactive session was conducted during the seminar, allowing students to clarify their doubts and discuss cybersecurity technologies, professional practices, career opportunities, certifications, and industry expectations.

The seminar concluded with an emphasis on the importance of **continuous learning, practical skill development, ethical practices, and proactive defence strategies** for aspiring cybersecurity professionals.

Learning Outcomes

The seminar successfully provided students with meaningful exposure to emerging cybersecurity challenges and defence practices. The major outcomes were:

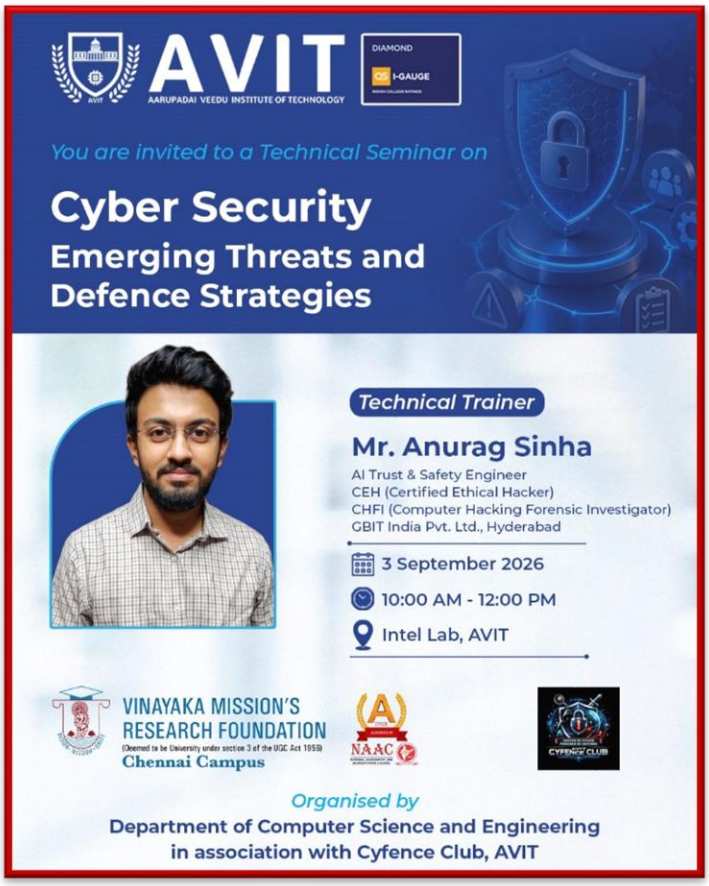
- **Enhanced Cybersecurity Awareness:**
  Students developed greater awareness of the evolving cybersecurity threat landscape and the importance of protecting digital assets.
- **Understanding of Emerging Threats:**
  Participants gained insights into emerging cyber threats, vulnerabilities, and the challenges associated with securing modern digital environments.
- **Knowledge of Defence Strategies:**
  Students developed an understanding of the importance of proactive security measures, threat identification, security awareness, and appropriate defence mechanisms.
- **Industry Exposure:**
  Interaction with an experienced industry professional provided student with valuable insights into real-world cybersecurity practices and industry expectations.
- **Career Awareness:**
  The seminar motivated students to explore professional opportunities in cybersecurity, ethical hacking, trust and safety, digital forensics, and related domains.
- **Skill Development:**
  Students were encouraged to continuously develop technical knowledge and practical cybersecurity skills to meet the requirements of the evolving industry.

SDG Alignment

The seminar contributed to several **United Nations Sustainable Development Goals (SDGs)**, particularly **SDG 4 – Quality Education**, by providing students with industry-oriented cybersecurity knowledge, awareness, and learning opportunities; **SDG 8 – Decent Work and Economic Growth**, by enhancing students' technical competencies, employability, career awareness, and understanding of industry requirements in cybersecurity; **SDG 9 – Industry, Innovation and Infrastructure**, by promoting awareness of modern cybersecurity technologies, emerging threats, and the importance of secure and resilient digital infrastructure; and **SDG 16 – Peace, Justice and Strong Institutions**, by promoting responsible digital practices, cybersecurity awareness, secure use of digital technologies, and trustworthy digital environments.

Coordinator HoD/CSE

Flyer



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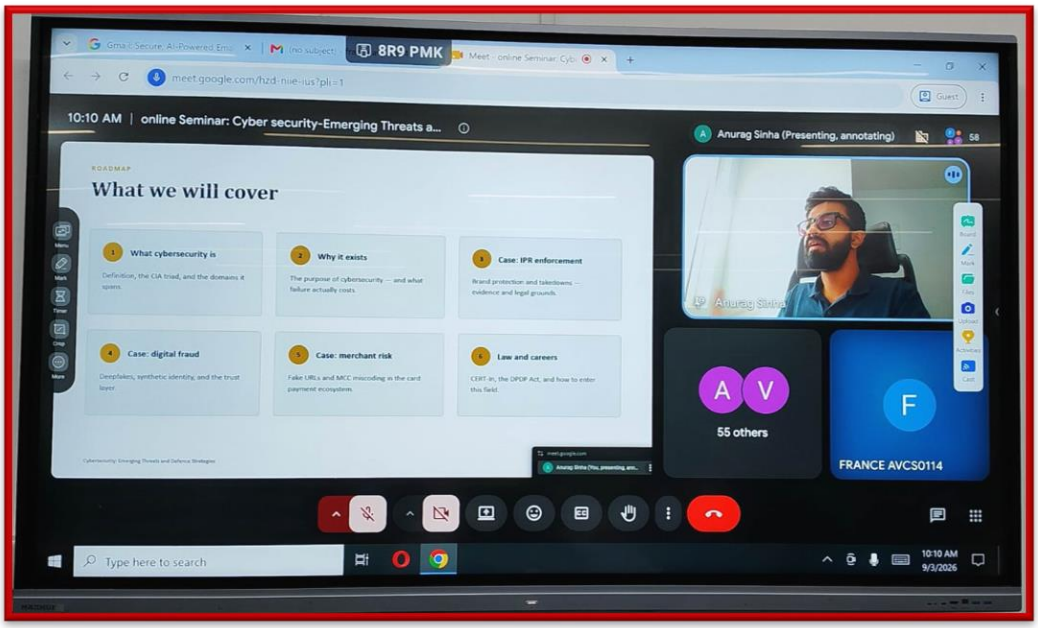

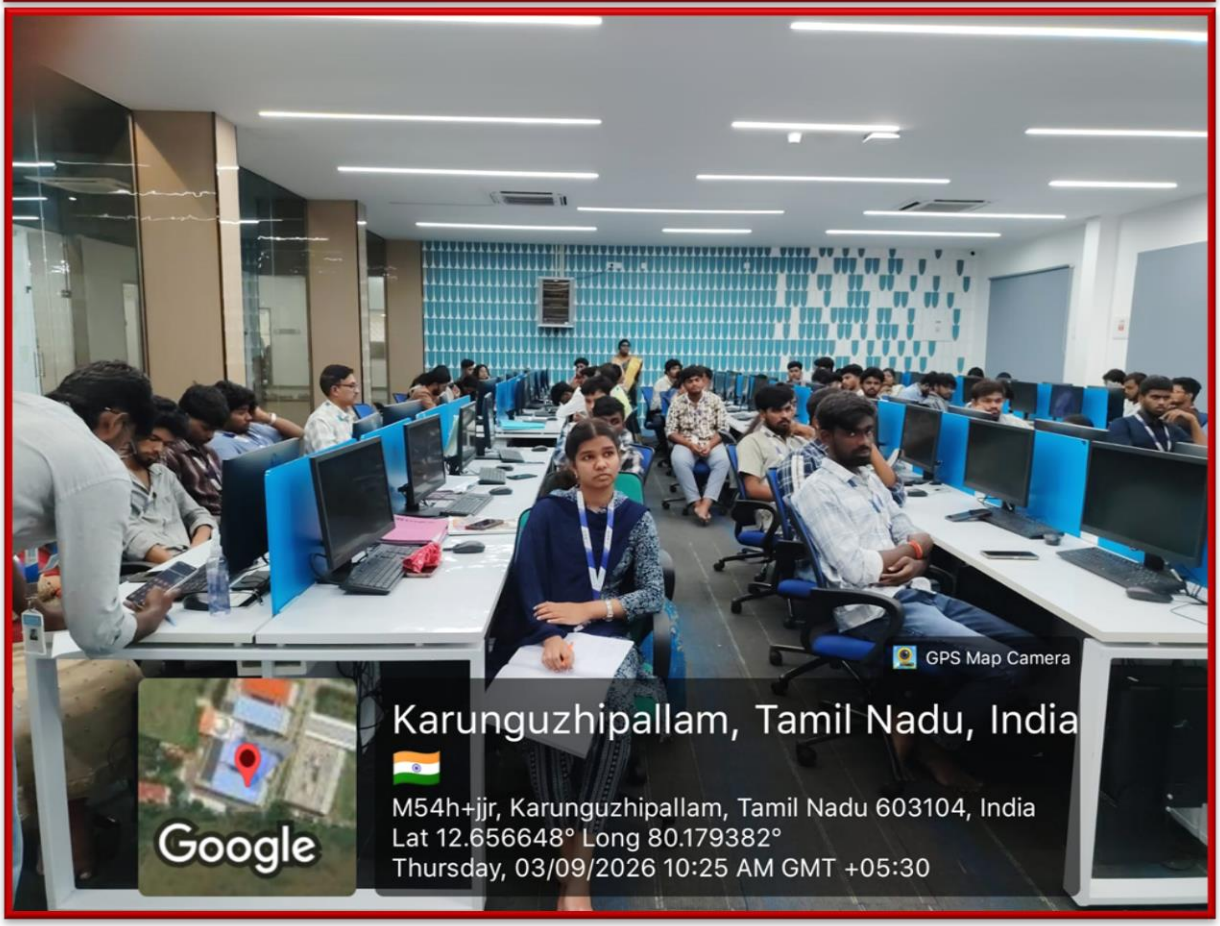
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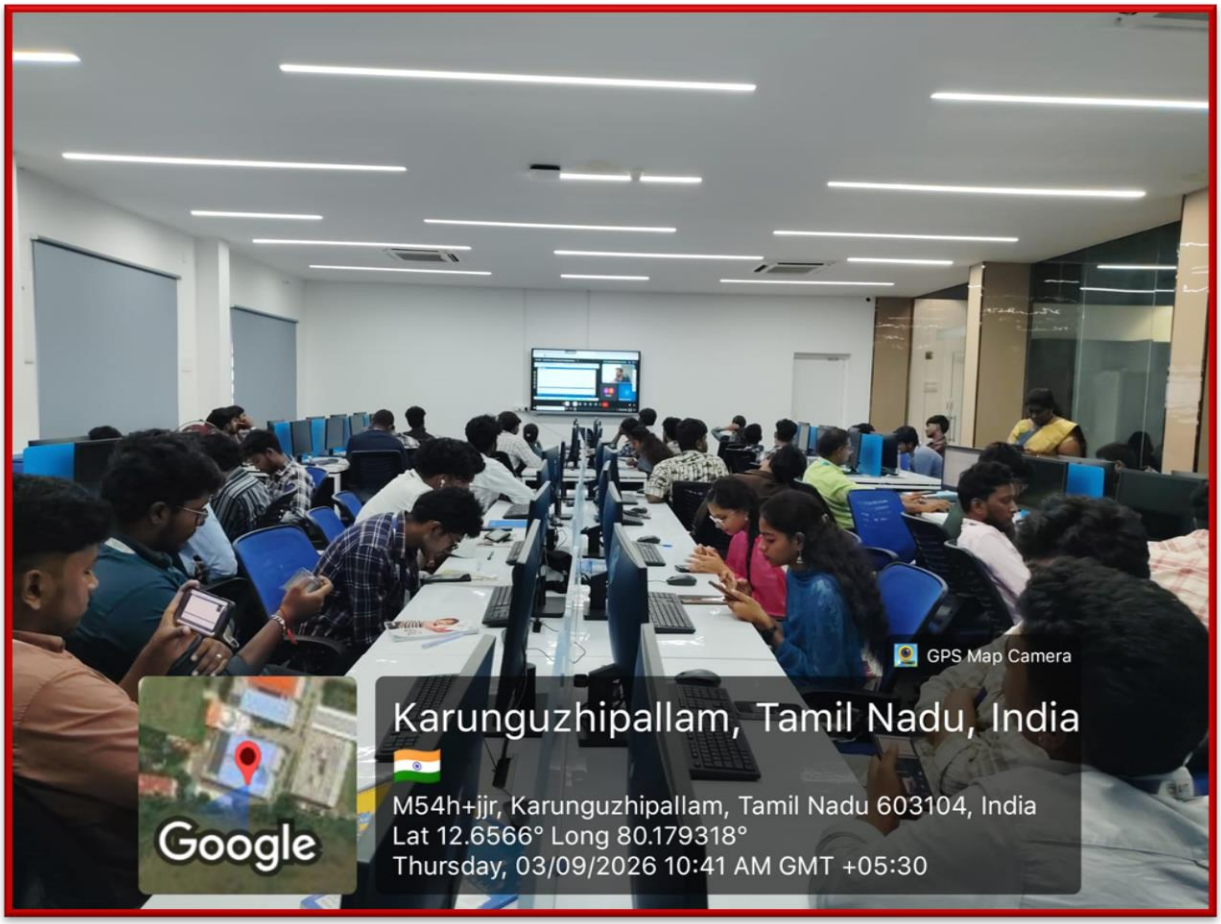
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