

A Report on One-Day Guest Lecture on
“The Evolution of Cyber Threats: Navigating Emerging Trends”
Organized By Department of Computer Science & Technology
on 26.02.2024



Organized by: Ms. Lakshmi B, Assistant Professor, Department of CST; Ms. Gopika Venu, Assistant Professor, Department of CST
Submitted by: Ms. Gopika Venu, Assistant Professor, Department of CST
Resource Person Details: Dr. Prasanna Lakshmi G S, Associate Professor, Department of Computer Science and Engineering, Nagarjuna College of Engineering & Technology, Bengaluru.
Participants: II Year CST Students
Attendance: 119 participants
Venue: Seminar Hall B
Mode of conduct: Online
Report Received on 29.02.2024

Department of Computer Science & Technology has organized “One-Day Guest Lecture on “The Evolution of Cyber Threats: Navigating Emerging Trends” on 26.02.2024 (Monday) from 10:00 AM to 12:00 PM.

Welcome Address:

The event commenced promptly at 10:00 AM with a warm and engaging welcome address to all by **Ms. Gopika Venu, Assistant Professor, Department of CST, Madanapalle Institute of Technology & Science (MITS), Madanapalle.** The main objective of the Guest Lecture on “The Evolution of Cyber Threats: Navigating Emerging Trends” is to Provide participants with insights into how cyber threats have evolved over time, from traditional forms of attacks to more sophisticated and complex threats. It also highlights the latest emerging trends in cyber threats, including new attack vectors, techniques, and technologies being utilized by threat actors. This will help attendees assess the current risk landscape in cyberspace, including the potential impact of emerging threats on individuals, organizations, and society as a whole. This guest lecture also deals with the present real-world case studies and examples of recent cyber-attacks to illustrate the evolving nature of threats and the tactics used by attackers.

Keynote Address

Dr. K. Dinesh, Academic coordinator welcomed the resource person with his keynote address and motivated the students to enrich themselves with the knowledge gained from the guest lecture.

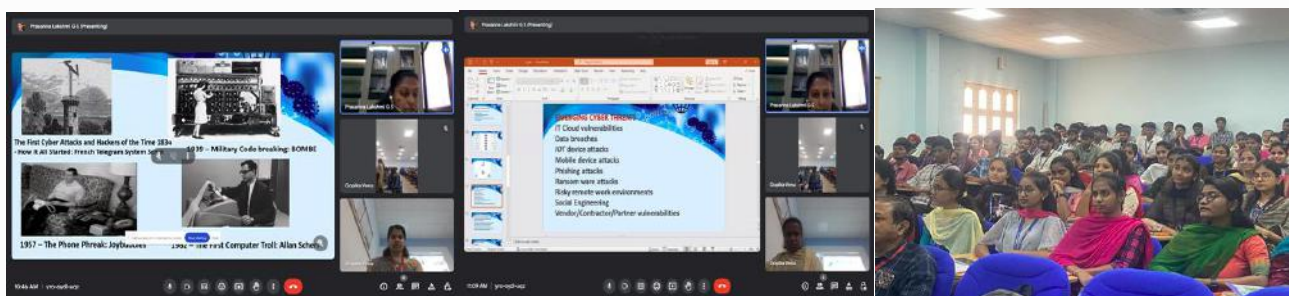
Resource Person Lecture:

Dr. Prasanna Lakshmi G S, Associate Professor, Department of Computer Science and Engineering, Nagarjuna College of Engineering & Technology, Bengaluru. started to explain about, The Evolution of Cyber Threats: Navigating Emerging Trends.

The resource person shared the following on The Evolution of Cyber Threats: Navigating Emerging Trends

The guest lecture on "The Evolution of Cyber Threats: Navigating Emerging Trends" provided attendees with invaluable insights into the dynamic landscape of cybersecurity. The lecture covered various aspects of the evolution of cyber threats, including technological advancements, the sophistication of threat actors, emerging threat vectors, regulatory considerations, and the cybersecurity skills gap.

Attendees gained a deeper understanding of the challenges and opportunities presented by emerging trends in cybersecurity and learned strategies to navigate and mitigate evolving risks effectively.



The lecture highlighted the impact of technological advancements such as cloud computing, Internet of Things (IoT), artificial intelligence (AI), and blockchain on the cybersecurity landscape. Attendees learned how these technologies create both opportunities and challenges for cybersecurity practitioners.

The lecture discussed the increasing sophistication of threat actors, including nation-state actors, organized crime groups, and hackers. Attendees gained insights into the diverse tactics, techniques, and procedures (TTPs) employed by threat actors to achieve their objectives.



Attendees were informed about emerging threat vectors such as mobile malware, phishing attacks, and supply chain vulnerabilities. The lecture emphasized the importance of staying vigilant and adopting proactive defence strategies to mitigate these risks.

The lecture addressed the regulatory and compliance landscape in cybersecurity, including the impact of regulations such as GDPR and CCPA on organizational cybersecurity practices. Attendees learned about the importance of compliance and its implications for risk management. The lecture highlighted the growing cybersecurity skills gap and its implications for organizations. Attendees gained insights into strategies for addressing the skills gap, including education, training, and workforce development initiatives.

Vote of thanks

The workshop formally concluded with a vote of thanks delivered by **Ms. Lakshmi B, Assistant Professor, Department of CST**. In her address, she expressed sincere gratitude to resource person for the time to share her expertise.



Outcomes:

At the end of Program, Students can able to,

1. Recall key concepts related to the evolution of cyber threats.
2. Understand the implications of emerging trends in cybersecurity.
3. Apply critical thinking skills to evaluate the effectiveness of different cybersecurity measures.
4. Analyze the characteristics and patterns of recent cyber-attacks.

Critically evaluate the ethical considerations and implications of different cybersecurity practices