

## Introduction

A guest lecture on "*Tech Insights on Cybersecurity*" was organized by training and placement cell for CSE (cyber-Security) students at Lecture Hall 2 on 23<sup>rd</sup> May 2025 from 2.00PM to 4.00 PM by **Ms. Sowmya N Swamy**, a recognized industry expert with extensive experience in cybersecurity, information assurance, and data protection. The session aimed to bridge the gap between academic learning and real-world cybersecurity practices. Over 170 students from second and third year CSE(Cyber Security) and all faculties of CSE (Cyber Security) attended the session. The Event was coordinated by Prof.Naveen Kulkarni from CSE (Cyber Security) and Mr. Sagar B S, placement officer, DSU.

## Objective

The primary goal of the session was to introduce undergraduate students to the evolving landscape of cybersecurity, key threats in the digital space, and industry best practices. It also aimed to inspire students to pursue careers in cybersecurity and understand the importance of securing digital assets.

## Speaker Profile

Ms. **Sowmya N Swamy** is a Vice President, Information Security Associate Manager at Wells Fargo having 17 years of experience in Cyber Security, threat analysis, ethical hacking, data privacy, and compliance frameworks. She has worked with leading tech firms contributing to several level cyber protection initiatives.

## Key Highlights of the Session

### 1. Understanding Cybersecurity

- Definition and significance of cybersecurity in today's interconnected world.
- Real-life examples of cyberattacks: ransomware, phishing, DDoS attacks, and data breaches.

### 2. Emerging Threats

- Rise of AI-driven cyberattacks.
- Importance of securing IoT and cloud infrastructures.
- Threats to personal data and social engineering attacks.

### 3. Cyber Hygiene for Students

- Password management, use of VPNs, and multi-factor authentication (MFA).

- Importance of regular updates, antivirus tools, and being cautious with downloads.

#### **4. Ethical Hacking and Career Opportunities**

- Basics of ethical hacking and penetration testing.
- Certifications such as CEH (Certified Ethical Hacker), CISSP, and CompTIA Security+.
- Career roles in cybersecurity: SOC analyst, cybercrime investigator, and security architect.

#### **5. Interactive Q&A Session**

- Students engaged actively, asking questions about careers, internships, and current threats.
- Ms. Sowmya encouraged hands-on learning through capture-the-flag (CTF) competitions and open-source tools like Kali Linux and Wireshark.

#### **Outcome**

The session proved to be highly informative and motivating for the students. It helped demystify the field of cybersecurity and shed light on practical steps to safeguard digital identity. Students gained awareness of the critical need for cybersecurity in all aspects of life and were inspired to explore the field further.

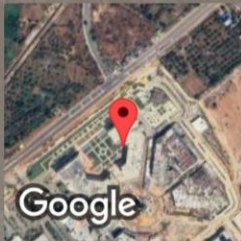
#### **Conclusion**

The guest lecture by **Ms. Sowmya N Swamy** provided valuable insights into cybersecurity from an industry perspective. It not only enhanced the students' theoretical knowledge but also introduced them to current industry practices and future career possibilities. Such interactions are vital for grooming industry-ready graduates.



## Industry Insights

- ▶ Real-World Challenges & Cybersecurity Trends:
  - ▶ - Rising cyber warfare threats
  - ▶ - Remote work security concerns
  - ▶ - Global cybersecurity regulations (GDPR, CCPA)
- ▶ Major Cyber Incidents:
  - ▶ - SolarWinds Supply Chain Attack
  - ▶ - Colonial Pipeline Ransomware Attack



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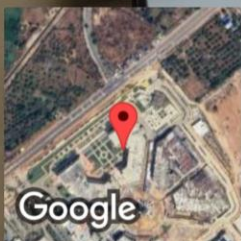







#### Industry Insights

- Real World Challenges & Cybersecurity Trends
- Attack vector surface trends
- Remote work security concerns
- Global cybersecurity regulations (GDPR, CCPA)
- Major Cyber Incidents
  - SolarWinds Supply Chain Attack
  - Colonial Pipeline Ransomware Attack



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