

A REPORT ON
Cysec

Date: 5th & 6th September, 2024

Venue: Cybersecurity Lab, Silver Oak University

CYSEC

Introduction:

"Cysec", a premier cybersecurity event held by **Silver Oak University IEEE Women in Engineering Student Branch Affinity Group**, in association with **SecureOps** and supported by **Securis360**, provided in-depth knowledge on critical cybersecurity topics. The event offered attendees valuable insights into the evolving threat landscape and effective countermeasures against cybercrime, phishing, cloud security threats, and dark web dangers

About the Speaker:

The event featured enlightening technical sessions, expertly led by renowned specialists in cybersecurity:

1. **Mr. Jigar Raval** – Head of Computer Technology and Information Division, Physics Research Laboratory
2. **Mr. Ashay Doshi** – Manager, Security Operations at Sophos
3. **Mr. Nisarg Trivedi** – Co-Founder & CTO of Securis360
4. **Mr. Jeel Vekariya** – Cyber Security Instructor, Red and White Multimedia Education; Student Advisory Board Member of IEEE SOU SB

About the Session:

Date: 5th and 6th September, 2024

Time: 10:30 AM - 01:00 PM

Venue: Cybersecurity Lab, EB block, Silver Oak University

Participants: 110

Day 1

The event commenced on a spiritual note with a mesmerizing Saraswati Vandana. This was followed by a heartfelt gesture of appreciation, as Dr. Satvik Khara honored Mr. Jigar Raval with a memento, acknowledging his invaluable support. He delivered a captivating presentation that delved into the complex world of email headers and phishing. He revealed the clever tactics used by attackers to deceive unsuspecting victims, expertly dissecting how malicious actors manipulate email headers to conceal their intent and compromise security.

Real-life incidents, such as the alarming cyber-attack on Adar Poonawala, underscored the severity of this threat. Mr. Raval then guided the audience through the stages of a cyber-attack, emphasizing vulnerability exploitation and proactive defence strategies.

The discussion seamlessly transitioned to cyber forensic processes, encompassing digital evidence collection and analysis. A live email forensics demonstration vividly illustrated email system operations and architecture. The session culminated in a thought-provoking discussion on the vital importance of prompt cyber incident reporting in mitigating damage.

The baton was then passed to Mr. Ashay Doshi, who carried the momentum with an insightful session on cloud security's complex landscape. By breaking down intricate concepts into clear, actionable insights, he elucidated the key differences between SaaS, PaaS, and IaaS – the three fundamental cloud service models. His engaging presentation illuminated the significance of cloud security models in various business contexts. He emphasized the rapid expansion of the global cloud security market, fueled by organizations adopting cloud-based operations.

As businesses transitioned to cloud-based operations, robust security measures became crucial for risk mitigation. He stressed the imperative of safeguarding against data breaches through encryption, identity management, and incident response, while ensuring governance and compliance.

He elaborated on the shared responsibility model, delineating the roles of cloud providers and users in securing data. His expert analysis highlighted the vital importance of collaboration in cloud security. The session culminated in a heartfelt gesture, as Prof. Digant Parmar presented Mr. Ashay Doshi with a memento, recognizing his invaluable contributions.

Day2

The event continued with renewed energy, setting the stage for another day of insightful discussions and expert-led sessions. Mr. Nisarg Trivedi, Co-founder and CTO of Securis360, delivered a dynamic session on "Unmasking Threats." He shared valuable expertise, beginning with a comprehensive discussion on network security and scanning.

Mr. Trivedi demonstrated various tools, including "Angry IP Scanner," "Zenmap," and "Wireshark," which cybersecurity personnel utilize to scan and protect devices from data loss or theft. A hands-on practical session was also conducted on virtual machines, focusing on SQL Injection and XSS Injection. He provided guidance on how these tools enable hackers and cybersecurity personnel to attack and defend devices.

Through this immersive approach, Mr. Nisarg Trivedi's session effectively connected theoretical knowledge to practical application, equipping participants with real-world skills. Prof. Digant Parmar presented a memento to Mr. Nisarg Trivedi, acknowledging his insightful and expert presentation.

Quiz

To reinforce the learning experience, Mr. Nisarg Trivedi facilitated an interactive cybersecurity quiz, testing attendees' knowledge on fundamental concepts and encouraging active participation. Further amplifying the engagement, the IEEE Student Branch hosted an additional quiz, skillfully conducted by students. This student-led quiz injected a spirited competitive edge, fostering a dynamic and collaborative atmosphere among participants.

The discussion took a deep dive into the hidden aspects of the Deep web and Dark web. Mr. Jeel Vekariya provided a brief introduction to this tricky section of the internet, highlighting its differences from the surface web and the risks involved in accessing this section.

Throughout the session, many myths and realities were addressed and clarified. He explained how and why these browsers are used for both legitimate and illegitimate purposes. Attendees gained insights on how to access this section with precautionary measures and were warned about potential hacking activities that could occur if proper care was not taken.

Many real-world incidents of cyber frauds and scams were also discussed. Mr. Jeel Vekariya explained how criminals exploited people through fake calls and messages. He then elaborated on the methods used to carry out this exploitation. Finally, he guided the audience on the reasons why people get exploited and provided valuable advice on how to safeguard themselves by taking precautions. Ms. Janvi Bhagchandani presented a memento to Mr. Jeel Vekariya, recognizing his invaluable contribution to the cybersecurity community.

Conclusion:

The **Cysec** event proved a resounding triumph, providing invaluable insights into the pressing concerns of cybersecurity. Renowned experts shared their specialized knowledge through relatable examples, while live demonstrations transformed theoretical concepts into tangible realities. This blend of information and interaction made the event an immersive and engaging experience. Participants departed with an enhanced understanding of cyber threats and effective countermeasures, armed with expertise in critical areas such as email forensics, the cybersecurity kill chain, and the pivotal role of cloud security in yesterday's digital landscape.

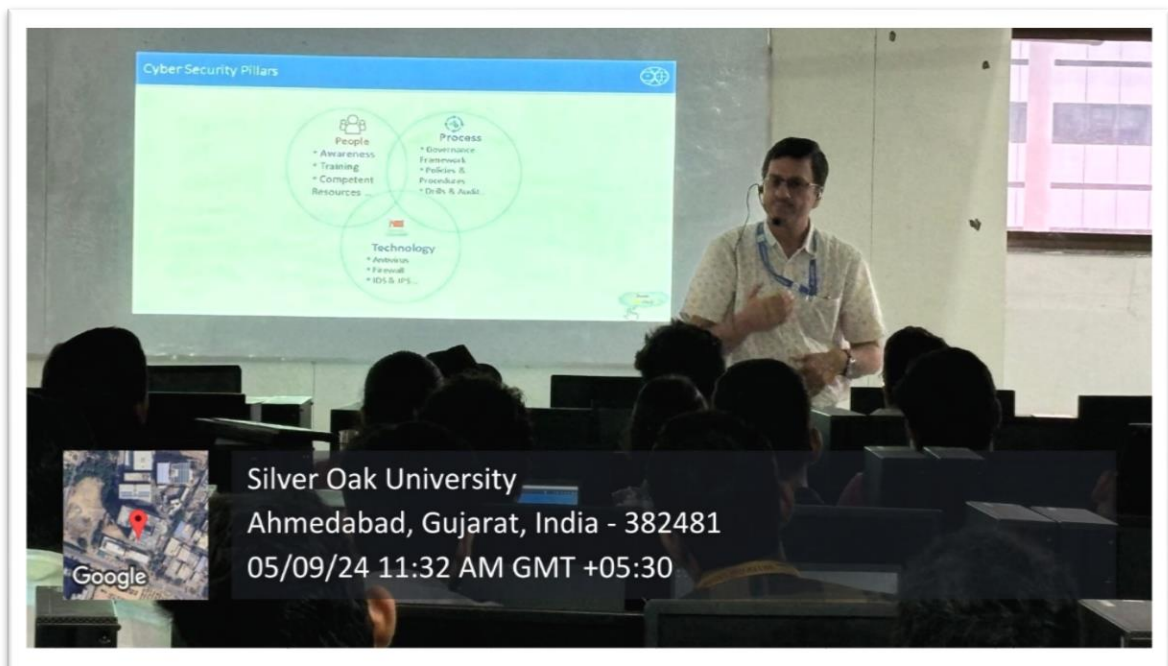
The event's success is greatly attributed to the guidance and support of Dr. Satvik Khara, Dean, Diploma Engineering, SOU; Head, Department of Computer Engineering, SOCET; IEEE Senior Member; Chairperson, SIGHT, IEEE Gujarat Section; Secretary, Computer Society, IEEE Gujarat Section; and Founding Member, Silver Oak University IEEE Student Branch.

Glimpses of the event:

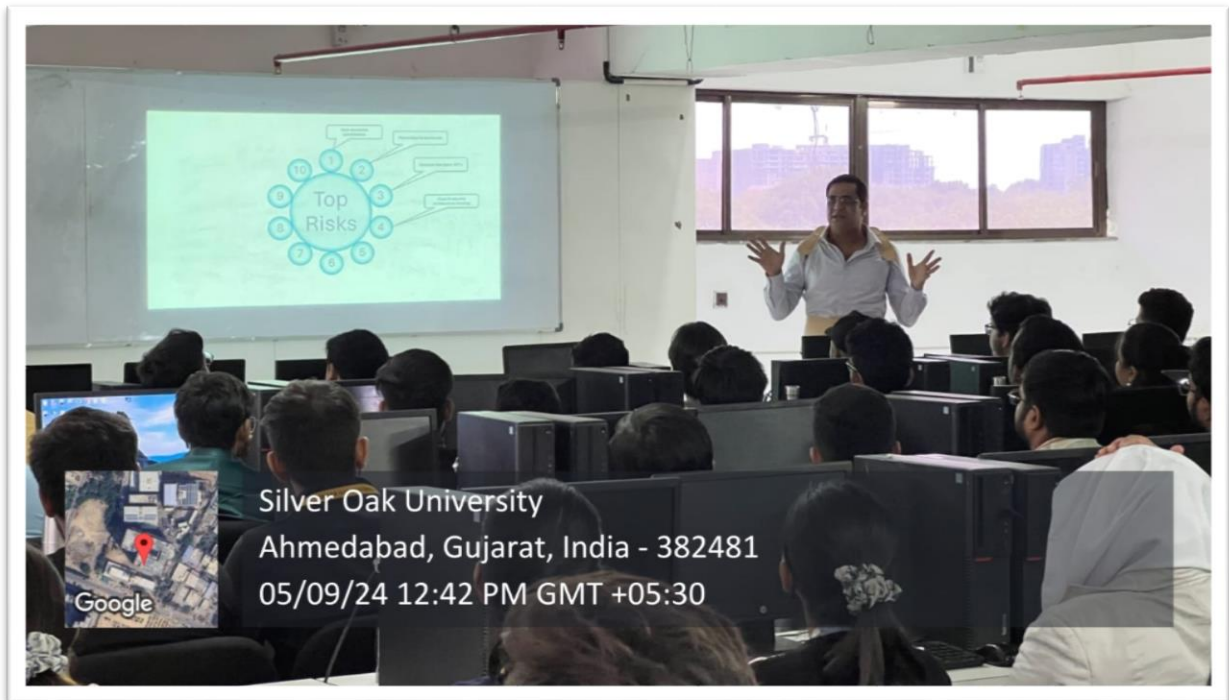
Day 1:



Dr. Satvik Khara honors Mr. Jigar Raval with felicitations



Mr. Jigar Raval guides the audience through the Cyber Attack Lifecycle



Mr. Ashay Doshi sheds light on cloud security's complex landscape



Prof. Digant Parmar presented Mr. Ashay Doshi with a token of appreciation

Day 2:



Mr. Nisarg Trivedi explores the Intersection of Cloud Security and Innovation



Participants put their cybersecurity skills to the test during the quiz session



Mr. Jeel Vekariya explores the Complexities of the Dark Web



Mr. Jeel Vekariya is being felicitated by Ms. Janvi Bhagchandani