

Guest Lecture on
“Introduction to the Verticals of
Cyber Security”

REPORT ON ONE DAY GUEST LECTURE ON

“Introduction to the Verticals of Cyber Security”

Overview

Guest Lecture on “**Introduction to the Verticals of Cyber Security**” on the 27th of July 2024 was organized by the Department of Electronics and Communication Engineering and IIOT and presided by **Dean-Outreach and Industrial Relations and HoD (VLSI) Dr. Ajayan K. R.** and the Chief guest **Mr. Kalmesh Joshi**, Principal Advisor, EBTS, Bangalore.

The welcome address was given by **Dean-Outreach and Industrial Relations Dr. Ajayan K. R.** The Venue was Seminar hall – 4 (10.00 AM to 12:00 PM).

Mr. Kalmesh Joshi, a renowned expert in cyber security, delivered an insightful lecture that provided a comprehensive overview of the various dimensions within the field of cyber security, highlighting its critical importance in the contemporary digital landscape. Cyber security encompasses a range of practices, technologies, and processes designed to protect networks, devices, programs, and data from attack, damage, or unauthorized access. The lecture began with an introduction to the fundamental concepts of cyber security, emphasizing its role in safeguarding the integrity, confidentiality, and availability of information.

The lecture was structured around the primary verticals of cyber security, which include:

Network Security: This vertical focuses on protecting the integrity, confidentiality, and accessibility of data as it travels across or is stored on a network. Topics covered included firewalls, intrusion detection systems (IDS), and virtual private networks (VPNs).

Information Security: This aspect of cyber security is concerned with protecting data from unauthorized access and alterations. It includes the use of encryption, data masking, and data loss prevention (DLP) strategies to secure sensitive information.

End-User Education: Recognizing that human error is a significant vulnerability, this vertical emphasizes the importance of training and awareness programs for employees and users. Phishing simulations, security awareness training, and best practices for password management were highlighted as crucial components.

Identity and Access Management (IAM): IAM is essential for ensuring that the right individuals have appropriate access to resources.

The lecture also touched on emerging trends and challenges in cyber security. The growing prevalence of Internet of Things (IoT) devices, the rise of artificial intelligence (AI) in security solutions, and the increasing sophistication of cyber attacks were also discussed.



Dr. Ajayan K. R. is presenting bouquet to the Chief Guest Mr. Kalmesh Joshi



The Chief Guest is delivering his lecture



Students are attentively listening to the lecture

Overall, 100 students and 10 faculty members participated. This workshop was a good learning experience for the participants. This lecture provided a well-rounded understanding of the various facets of the field. It emphasized the necessity of a multi-layered approach to security, integrating technology, processes, and people to effectively mitigate cyber threats. As cyber threats continue to evolve, the knowledge and strategies shared in this lecture are invaluable.