

GUEST LECTURE SERIES
CYBERSECURITY AND CRYPTOGRAPHY

Title	MBA Guest Lecture – Cyber Security and Cryptography
Department	Department of Management Studies
Date	15th of February 2024
Time	9.00 AM to 11.00 AM
Speaker Name	Dr. Vinod Krishna M U Professor at PESU and Principal Consultant at Vitta Vibhava
Brief Description	<p>Department of Management Studies, NHCE organized a Guest Lecture on “Cyber Security and Cryptography” for all the 3 sections of II Semester MBA students. The guest speaker of this session was Dr.Vinod Krishna, and he spoke on the following lines that is briefed below. He started with introduction to an era where digital interactions are ubiquitous, cybersecurity has become paramount. Cryptography stands as a critical tool in this endeavour, providing a means to secure data and communications from unauthorized access.</p> <p>He proceeded to explain on the current landscape focusing on the concepts of cyber threats such as ransomware, phishing, and data breaches, organizations face immense pressure to fortify their defences. Later he continued on giving the importance of cryptography and mentioned that Cryptography plays a vital role in ensuring confidentiality, integrity, and authenticity in digital communications. It facilitates secure transactions, protects intellectual property, and preserves user privacy in an increasingly interconnected world. He did mention on the key technologies like symmetric encryption, asymmetric encryption, and hashing algorithms form the foundation of modern cybersecurity solutions.</p> <p>These technologies enable secure data transmission, digital signatures, and verification mechanisms are there. He highlighted on the emerging trends of quantum computing poses new challenges to traditional cryptographic methods, necessitating the development of quantum-resistant algorithms. Additionally, block chain technology integrates cryptographic principles to create tamper-resistant and transparent digital ledgers and concluded the session by mentioning that cryptography serves as a cornerstone of cybersecurity, offering robust mechanisms to protect sensitive information and communications from malicious actors. By embracing cryptographic best practices and staying abreast of technological advancements, organizations can enhance their resilience against cyber threats and uphold trust in the digital domain.</p> <p>I thank Dr Guru Basava Aaradhya, Head of department of Management studies for organizing such an insightful session that is relevant to the industry and for constantly encouraging and motivating both the faculty and the students.</p>

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