NITTTR BHOPAL

CSEE-1/2024-2025
Cyber Security
10-06-2024 to 14-06-2024
NITTTR Bhopal

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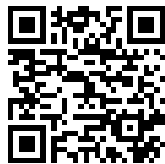
Rationale

In the linked world of today, cybersecurity is a vital problem. Organizations' data and systems are seriously at danger from the spread of cyberthreats including ransomware, malware, and phishing scams. To safeguard their companies against cyberattacks, IT specialists and cybersecurity practitioners must keep up with the most recent developments in cybersecurity techniques and tools. Participants should leave this one-week cybersecurity traning with a thorough understanding of cybersecurity practices and principles. The essentials of cybersecurity, such as risk management, security policy, incident response, and threat intelligence, will be covered for participants. Advanced subjects including cryptography, secure coding techniques, network security, penetration testing, and digital forensics will all be covered in the curriculum. In order to apply their knowledge in practical settings, participants will have the chance to take part in interactive exercises and simulations.Upon completion of the program, participants will possess the necessary skills and knowledge to effectively plan, execute, and manage cybersecurity measures.

Programme Outcomes

Explain fundamental concepts of cybersecurity
Compare various types of cyber threats and attacks
Explain principles of risk management in cybersecurity
Implement security policies and best practices
Perform incident response and management
Comprehend network security principles and practices
Explain the role of cryptography in cybersecurity
Apply secure coding practices

Programme Content

Computer security networking basics, network security types, security controls
 Network security algorithms like RSA, ECC, Blowfish & Twofish etc., Types of cyber security threats and attackes, Cyber Law, risk management in cybersecurity, incident response and management, secure coding practices, penetration testing and vulnerability assessments tools, and digital forensics investigations tools.

Target Group

Faculty of Computer Engineering and allied discipline, Programmers and System Analysts

Coordinator & Co-Faculty

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