Name of the program :   Introduction to Cyber Security

Duration :   1 week- Online

About the program: This program is about the understanding about the Information Technology, Cyber Security , types of cyber Crime with safety and security features .

Modules / Topics

Introduction to Cyber World

- Introduction to computer, Introduction to IT and Cyber Space, Cyber Crime, Types of Cyber Crimes.
- Planning of Cyber crime, Cyber Crime against Individuals/Society/Organization, Hacking, -White hat hacker, Black hat hacker, gray hat hacker.

Vulnerability Analysis and Penetration Testing

- VAPT:- Installtion of Kali Linux & lab setup, Introduction to DVWA & OWASP.

Network Security

- Introduction to Network & its security, Principles of Cryptography, Message Integrity and Digital Signatures, End-Point Authentication, Securing E-Mail, Virtual Private Networks, Securing Wireless LANs, Firewalls and Intrusion Detection Systems.

IT & OT Security

- Layered Industrial structure for IT & OT, Cyber Physical System, Industrial hardware and software, SCADA security & vulnerability.

ISMS

- Security Risk Assessment and Management, ISO27001, Compliance and certificates, PDCA cycle, Professionalism of auditors.

Learning Outcome :

1. In-depth knowledge of Cyber Security world and different domains existance.

2. Sharpen the skills of professionals who are already working in this field

Name of the Faculty :   Dr. Rakesh Singh Kunwar