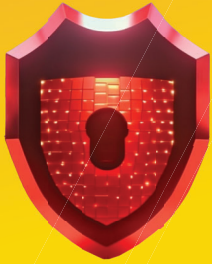


SELF-PACED

CERTIFICATE IN RED TEAMING



COURSE OVERVIEW

The Course introduces you to the Cyber Security Fundamentals, Concept of Cyber Threats, Cyber Law and Regulation, Computer programming basics, Knowledge of Digital Communication, Internet Infrastructure and Protocols, Attacks and Vulnerabilities, OS basics, Virtualization basics, Concept of Web, VAPT TTP, Python Libraries for hacking (Scapy, Nmap & Metasploit) , Risk Management and The Cyber Security Framework, SOC roles and functionality, Malware Analysis, Investigation of Events and Alarms, SIEM Tools, Incident Response. At the end, we have a hands-on live project where we will implement all the concepts learned.

COURSE OBJECTIVE

The objective of this course is to make learners develop the ability to understand the Cyber Security Building Blocks, Cyber Threats, Concepts of Web, Infrastructure, and working of Cyber Space. An understanding of the key concepts in the implementation of Tools, Techniques, and Procedures of hacking and protecting cyberspace.

SKILLS YOU WILL LEARN

In this course, you will learn the CIA Traid OSI/TCP-IP Model, Transmission Medium, VAPT TTP, Network Monitoring and Analysis, Static and Dynamic Malware Analysis, Python for hacking, Different Cyber Attacks, and Mitigation.

PROGRAM HIGHLIGHTS

Instructor – Mr. Aman Kumar Gupta

Duration – 6 months

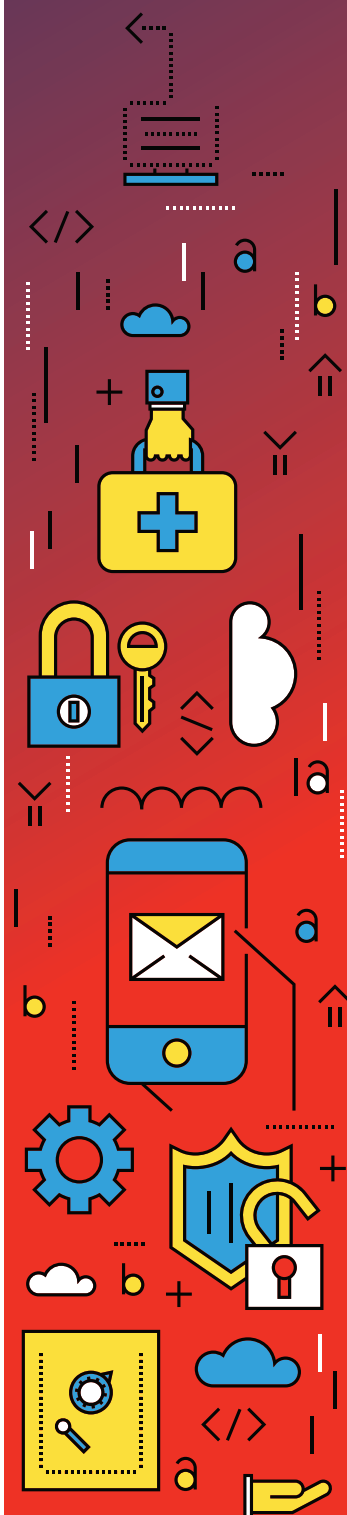
Eligibility – 10+2

No. of Modules – 6

Placement training – N/A

Language – English

Shareable certificate – Yes



Module 1 Introduction to Computer Network and Its Security

- Session 1 Network Fundamentals
- Session 2 IP address and MAC Address
- Session 3 Network Devices, Cabling & Packet Tracer
- Session 4 OSI Model and Ports
- Session 5 Routing and Switching
Assessment/Practical

Module 2 Linux Essential (Red Hat)

- Session 1 History of Linux , Unix
- Session 2 Bash Shell user and group management
- Session 3 Software Installation and management and password
bypass
- Session 4 Network Management
- Session 5 Swap space
Internal Assessment

Module 3 Fundamentals of Windows and Linux OS

- Session 1 OS Basics
- Session 2 Windows Essentials
- Session 3 Linux Essentials
- Session 4 Virtualization Basics
- Session 5 Basic Concept Of Web
Internal Assessment

Module 4 Python Programming

- Session 1 Introduction and Installation of Python
- Session 2 Beginning python basics
- Session 3 Python program flow
- Session 4 Python practice problem
- Session 5 Advance python with oops
Internal Assessment

Module 5 Ethical Hacking

- Session 1 Introduction to Ethical Hacking
- Session 2 Foot printing and reconnaissance
- Session 3 Network Scanning and vulnerability analysis
- Session 4 System Hacking and password bypassing
- Session 5 Malware Threats and Sniffing
- Session 6 Social Engineering and DOS Attack Tactics
- Session 7 Web server and web application hacking
- Session 8 SQL Injection and Wireless Attacks
- Session 9 Cryptography
Internal Assessment





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