



# **Cyber Security Syllabus**

**DURATION – 5 MONTHS**

**MODE OF TRAINING – OFFLINE/ONLINE**

# Cyber Security



- **MODULE-1**
- Introduction to Ethical Hacking
- Cover the fundamentals of key issues in the information security world, including the basics of ethical hacking, information security controls, relevant laws, and standard procedures.
- **MODULE-2**
- Foot Printing and Reconnaissance
- Learn how to use the latest techniques and tools to perform foot printing and reconnaissance, a critical pre-attack phase of the ethical hacking process.
- **MODULE-3**
- Scanning Network
- Learn different network scanning techniques and countermeasures.

# Cyber Security

- **MODULE-4**
- Enumeration
- Learn various enumeration techniques, such as Border Gateway Protocol (BGP) and Network File Sharing (NFS) exploits, and associated countermeasures.
- **MODULE-5**
- Vulnerability Analysis
- Learn how to identify security loopholes in a target organization's network, communication infrastructure, and end systems. Different types of vulnerability assessment and vulnerability assessment tools.
- **MODULE-6**
- System Hacking
- Learn about the various system hacking methodologies—including steganography, steganalysis attacks, and covering tracks—used to discover system and network vulnerabilities

# Cyber Security

- **MODULE-7**
- **Malware Threat**
- **Learn different types of malware (Trojan, virus, worms, etc.), APT and fileless malware, malware analysis procedure, and malware countermeasures.**
- **MODULE-8**
- **Shifting**
- **Learn about packet-sniffing techniques and how to use them to discover network vulnerabilities, as well as countermeasures to defend against sniffing attacks.**
- **MODULE-9**
- **Social Engineering**
- **Learn social engineering concepts and techniques, including how to identify theft attempts, audit human-level vulnerabilities, and suggest social engineering countermeasures**

# Cyber Security

- **MODULE-10**
- Denial-Of-service
- Learn about different Denial of Service (DoS) and Distributed DoS (DDoS) attack techniques, as well as the tools used to audit a target and devise DoS and DDoS countermeasures and protections.
- **MODULE-11**
- Session Hijacking
- Understand the various session hijacking techniques used to discover network-level session management, authentication, authorization, and cryptographic weaknesses and associated countermeasures
- **MODULE-12**
- Evading IDS, Firewalls, and Honeypots
- Get introduced to firewall, intrusion detection system (IDS), and honeypot evasion techniques; the tools used to audit a network perimeter for weaknesses; and countermeasures

# Cyber Security

- **MODULE-13**
- Hacking Web Server
- Learn about web server attacks, including a comprehensive attack methodology used to audit vulnerabilities in web server infrastructures and countermeasures.
- **MODULE-14**
- Hacking Web Application
- Learn about web application attacks, including a comprehensive web application hacking methodology used to audit vulnerabilities in web applications and countermeasures.
- **MODULE-15**
- SQL injection
- Learn about SQL injection attacks, evasion techniques, and SQL injection countermeasures.

# Cyber Security

- **MODULE-16**
- Hacking Wireless Network
- Understand different types of wireless technologies, including encryption, threats, hacking methodologies, hacking tools, Wi-Fi security tools, and countermeasures
- **MODULE-17**
- Hacking Mobile Platforms
- Learn Mobile platform attack vector, android and iOS hacking, mobile device management, mobile security guidelines, and security tools.
- **MODULE-18**
- IOT & OT Hacking
- Learn different types of IoT and OT attacks, hacking methodology, hacking tools, and countermeasures.

# Cyber Security

- **MODULE-19**
- Cloud Computing
- Learn different cloud computing concepts, such as container technologies and server less computing, various cloud computing threats, attacks, hacking methodology, and cloud security techniques and tools.
- **MODULE-20**
- Cryptography
- Learn about encryption algorithms, cryptography tools, Public Key Infrastructure (PKI), email encryption, disk encryption, cryptography attacks, and cryptanalysis tools.

# HANDS-ON LEARNING LABS



- **100% virtualization for a complete learning experience**
- **After login, you will have full access to preconfigured targets, networks, and the attack tools necessary to exploit them:**
- **Pre-configured vulnerable websites**
- **Vulnerable, unpatched operating systems**
- **Fully networked environments**
- **3,500+ hacking tools And much more!**
- **Wide range of target platforms to hone your skills**
- **519 attack techniques**
- **Objective-oriented flags for critical thinking and applied knowledge assessment**
- **Cloud-based cyber range**

# Aptitude

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## Quantitative Aptitude

- Average
- Percentage
- Profit and Loss
- Simple Interest
- Compound Interest
- Ratio Proportion
- Time and Work
- Time
- Speed
- Distance Number
- System
- Permutation and Combination
- Probability
- Data Interpretation

## Logical Reasoning

- Blood Relation
- Direction sense
- Coding and decoding
- Clocks and Calendar
- Cubes and Dices
- Seating arrangement
- Syllogism
- Data sufficiency
- Puzzles
- Miscellaneous



# Softskill



- Setting the tone
- Introduction of Be Employable
- Competency Matrix
- Effective Communication
- Presentation skills
- Business Communication
- Attitude + Motivation
- Emotional Intelligence
- Leadership
- Create CV/Resume
- Group Discussion
- Mock Group Discussion
- PI practice
- Virtual Interview
- Industry Knowhow and future, Certifications and action plan

# Key Feature

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- Trainer with 12+ Years of Experience
- 200 hours of high-quality course
- Best Quality Training
- Live Project Experience
- Demo Lectures are available
- In-depth Course Contents
- 100 % Placement Assistance
- Internship support



# Orange Itech Offer You



INTERNSHIP





# THANK YOU

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