



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

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

- **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



THANK YOU

**317,B wing 3rd Floor, Rajdhani Complex,
Near Shankar Maharaj Math, Pune - Satara
Road, Balajinagar, Pune
9975708774/9623922545
website - <http://orangeitech.in>**