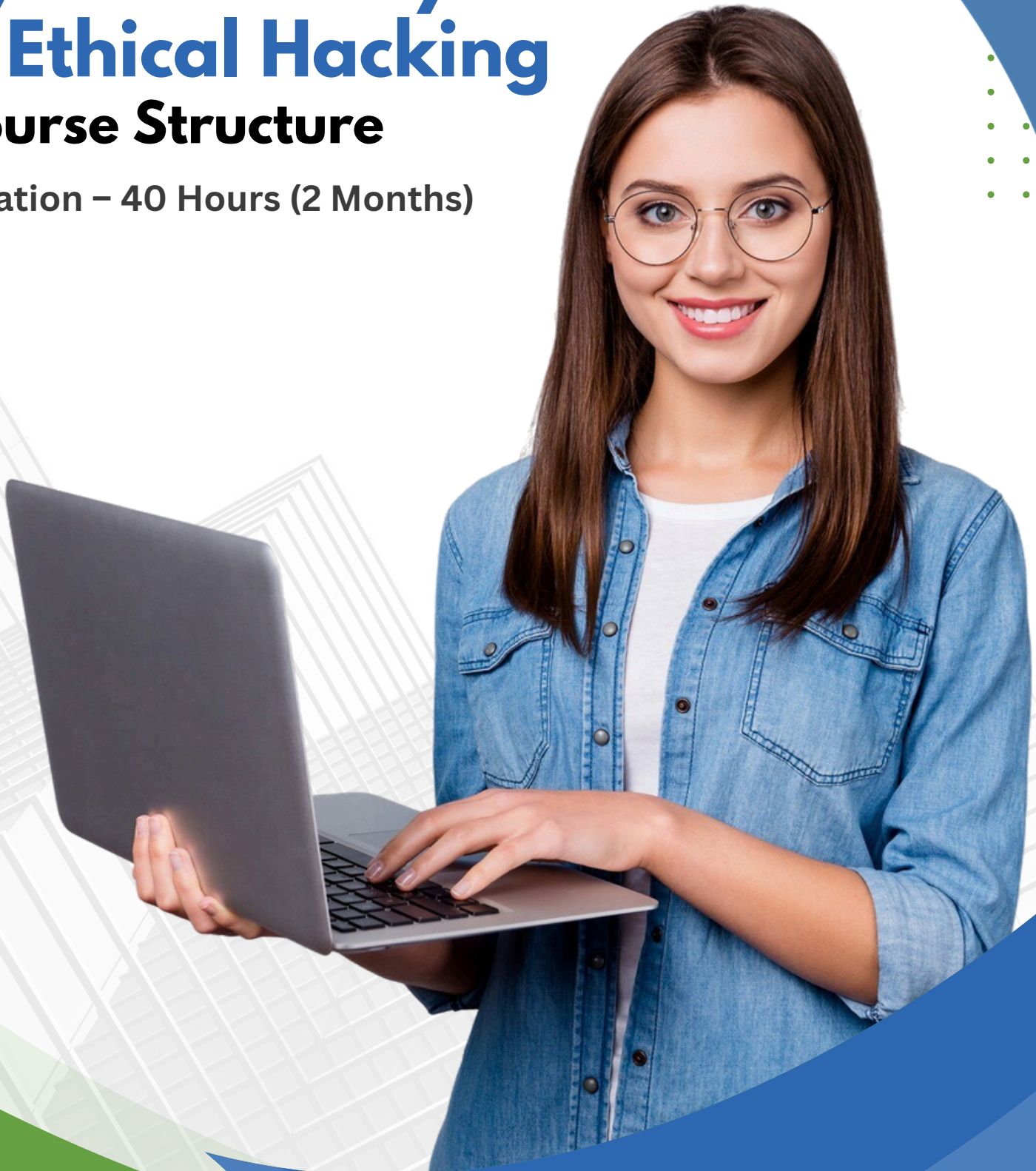




Cyber Security & Ethical Hacking Course Structure

Duration – 40 Hours (2 Months)



Introduction to Cyber Security & Ethical Hacking – 3 Hours

Understanding the fundamentals, types of hackers, the CIA triad (Confidentiality, Integrity, Availability), and legal/ethical considerations.

Networking Fundamentals – 3 Hours

Basics of computer networks, the OSI and TCP/IP models, IP addressing, protocols (TCP, UDP, ICMP), firewalls, and VPNs.

Footprinting & Reconnaissance – 3 Hours

Techniques for gathering information about target systems using both passive and active methods and various tools (e.g., Google Dorks, Whois).

Scanning Networks – 3 Hours

Learning different network scanning techniques, using tools like Nmap, and evasion methods.

Vulnerability Analysis – 3 Hours

Identifying security loopholes in systems, using vulnerability assessment tools like Nessus, and understanding scoring systems.

System Hacking – 3 Hours

Methodologies for gaining access to systems, including password cracking techniques, steganography, keyloggers, and maintaining persistence.

Malware Threats – 2 Hours

Understanding different types of malware (viruses, Trojans, ransomware, worms), their analysis, and detection/removal methods.



Sniffing & Session Hijacking – 2 Hours

Techniques for capturing network traffic, ARP poisoning, and hijacking sessions at both the network and application levels.

Web Application Security – 2 Hours

Focus on common web vulnerabilities as per the OWASP Top 10, including SQL injection, XSS, and CSRF attacks.

Wireless Network & Mobile Security – 2 Hours

Hacking and securing wireless networks (Wi-Fi terminologies, WEP/WPA/WPA2 cracking) and mobile platforms.

Social Engineering – 2 Hours

Methods used to manipulate people into revealing sensitive information and how to prevent such attacks.

Penetration Testing & Reporting – 2 Hours

The overall lifecycle of a penetration test, from planning and exploitation to documentation and reporting findings.

System Hacking – 3 Hours

Methodologies for gaining access to systems, including password cracking techniques, steganography, keyloggers, and maintaining persistence.





Contact Us Today!



+91 8282884601



partner@cronusconsultants.co.in



www.cronusconsultants.co.in



Corporate Office - Bengal Eco Intelligent Park, Floor 13,
Module 21, EM3, Salt Lake Sector V, Kolkata - 700 091

Registered Office - AA/19, DESBANDHU NAGAR, KOLKATA,
North 24 Parganas, West Bengal, 700059