

ETHICAL HACKING INTERNSHIP PROGRAM

This ethical hacking internship course for beginners typically covers a range of topics to provide a solid foundation in cybersecurity and ethical hacking techniques

COURSE OUTLINE

Week 1: Introduction to Ethical Hacking

- \approx Understanding the basics of ethical hacking
- \approx Differentiating between ethical hacking and malicious hacking
- \approx Legal and ethical considerations in ethical hacking
- \approx Introduction to common tools used in ethical hacking

Week 2: Information Gathering

- \approx Techniques for gathering information about a target
- \approx Using search engines and social engineering for information gathering
- $\approx~$ Introduction to reconnaissance tools such as Nmap and Shodan
- \approx Hands-on exercises on information gathering

Week 3: Scanning and Enumeration

- \approx Understanding network scanning techniques
- \approx Port scanning with tools like Nmap
- \approx Service enumeration and version detection
- \approx Hands-on exercises on scanning and enumeration

Week 4: Vulnerability Assessment

 \approx Identifying vulnerabilities in systems and networks

- \approx Using vulnerability scanners like OpenVAS and Nessus
- ≈ Manual vulnerability assessment techniques
- \approx Hands-on exercises on vulnerability assessment

Week 5: Exploitation

- \approx Understanding common exploits and attack vectors
- \approx Exploiting vulnerabilities found during assessment
- \approx Introduction to exploitation frameworks like Metasploit
- \approx Hands-on exercises on exploitation

Week 6: Post-Exploitation

- \approx Maintaining access to compromised systems
- ≈ Privilege escalation techniques
- \approx Data exfiltration methods
- ≈ Hands-on exercises on post-exploitation

Week 7: Web Application Security

- \approx Introduction to web application vulnerabilities
- \approx Common web application attacks such as SQL injection, XSS, and CSRF
- \approx Using tools like Burp Suite for web application testing
- \approx Hands-on exercises on web application security

Week 8: Wireless Network Security

- ≈ Understanding wireless network vulnerabilities
- \approx Wireless network scanning and enumeration
- ≈ Common attacks on wireless networks (e.g., WEP/WPA/WPA2 cracking)
- \approx Hands-on exercises on wireless network security

Week 9: Social Engineering

- \approx Understanding social engineering techniques
- \approx Phishing attacks and email spoofing
- \approx Pretexting and baiting
- \approx Hands-on exercises on social engineering

Week 10: Reporting and Ethics

- \approx Writing professional and comprehensive penetration testing reports
- \approx Legal and ethical considerations in reporting vulnerabilities
- \approx Guidelines for responsible disclosure
- \approx Ethical hacking certifications and career paths