

Ethical Hacking & Cyber Security

<u>INTRO TO ETHICAL HACKING</u>	<u>FOOTPRINTING AND RECONNAISSANCE</u>
<ul style="list-style-type: none"> • Information Security Overview • Information Security Threats and Attack Vectors • Hacking Concepts • Ethical Hacking Concepts • Information Security Controls • Penetration Testing Concepts • Information Security Laws and Standards 	<ul style="list-style-type: none"> • Footprinting Concepts • Footprinting through Search Engines • Footprinting through Web Services • Footprinting through Social Networking Sites • Website, Email, DNS, Network, Whois Footprinting • Footprinting through Social Engineering • Footprinting Tools • Footprinting Countermeasures • Footprinting Pen Testing
<u>SCANNING NETWORKS</u>	<u>ENUMERATION</u>
<ul style="list-style-type: none"> • Network Scanning Concepts • Scanning Tools & Techniques • Scanning Beyond IDS and Firewall • Banner Grabbing • Draw Network Diagrams • Scanning Pen Testing 	<ul style="list-style-type: none"> • Enumeration Concepts • NetBIOS Enumeration • SNMP, LDAP, NTP Enumeration • DNS Enumeration • Other Enumeration Techniques • Enumeration Countermeasures • Enumeration Pen Testing
<u>VULNERABILITY ANALYSIS</u>	<u>SYSTEM HACKING</u>
<ul style="list-style-type: none"> • Vulnerability Assessment Concepts & Solutions • Vulnerability Scoring Systems • Vulnerability Assessment Tools & Reports 	<ul style="list-style-type: none"> • System Hacking Concepts • Cracking Passwords • Escalating Privileges • Executing Applications • Hiding Files • Covering Tracks • Penetration Testing
<u>MALWARE THREATS</u>	<u>SNIFFING</u>
<ul style="list-style-type: none"> • Malware & Trojan Concepts • Virus and Worm Concepts • Malware Analysis • Anti-Malware Software • Malware Penetration Testing 	<ul style="list-style-type: none"> • Sniffing Concepts • Sniffing Technique: MAC & DHCP Attacks • Sniffing Technique: ARP & DNS Poisoning • Sniffing Technique: Spoofing Attacks

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NEXTGEN

Computer Institute

	<ul style="list-style-type: none"> • Sniffing Tools • Countermeasures • Sniffing Detection Techniques • Sniffing Pen Testing
<u>SOCIAL ENGINEERING</u>	<u>DENIAL-OF-SERVICE</u>
<ul style="list-style-type: none"> • Social Engineering Concepts & Techniques • Insider Threats • Impersonation on Social Networking Sites • Identity Theft • Countermeasures • Social Engineering Pen Testing 	<ul style="list-style-type: none"> • DoS/DDoS Concepts & Techniques • Botnets • DoS/DDoS Attack Tools • Countermeasures • DoS/DDoS Protection Tools & Penetration Testing
<u>SESSION HIJACKING</u>	<u>EVADING IDS, FIREWALLS, AND HONEYPOTS</u>
<ul style="list-style-type: none"> • Session Hijacking Concepts • Application Level & Network Level Session Hijacking • Session Hijacking Tools • Countermeasures • Penetration Testing 	<ul style="list-style-type: none"> • IDS, Firewall and Honeypot Concepts & Solutions • Evading IDS & Firewalls • Detecting Honeypots • IDS/Firewall Evasion Countermeasures • Penetration Testing
<u>HACKING WEB SERVERS</u>	<u>HACKING WEB APPLICATIONS</u>
<ul style="list-style-type: none"> • Web Server Concepts • Web Server Attack Methodology & Tools • Patch Management • Web Server Security Tools • Web Server Pen Testing 	<ul style="list-style-type: none"> • Web App Concepts • Web App Threats • Hacking Methodology • Web App Hacking Tools • Countermeasures • Web App Security Testing Tools • Web App Pen Testings
<u>SQL INJECTION</u>	<u>HACKING WIRELESS NETWORKS</u>
<ul style="list-style-type: none"> • SQL Injection Concepts • Types of SQL Injection • SQL Injection Methodology • SQL Injection Tools • Evasion Techniques • Countermeasures 	<ul style="list-style-type: none"> • Wireless Concepts • Wireless Encryption • Wireless Threats • Wireless Hacking Methodology • Wireless Hacking Tools • Bluetooth Hacking

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<u>HACKING MOBILE PLATFORMS</u>	<u>CLOUD COMPUTING</u>
<ul style="list-style-type: none">• Mobile Platform Attack Vectors• Hacking Android OS• Hacking iOS• Mobile Spyware• Mobile Device Management• Mobile Security Guidelines and Tools• Mobile Pen Testing	<ul style="list-style-type: none">• Cloud Computing Concepts• Cloud Computing Threats & Attacks• Cloud Security• Cloud Security Tools• Cloud Penetration Testing
<u>CRYPTOGRAPHY</u>	
<ul style="list-style-type: none">• Cryptography Concepts• Encryption Algorithms• Cryptography Tools• Public Key Infrastructure (PKI)• Email Encryption• Disk Encryption• Cryptanalysis	

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