

Ethical Hacking & Penetration Testing

General Information

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| Duration: | Level-1 | 20 Course Hours | Level-2 | 20 Course Hours |
| Course Fee: | Level-1 | PKR 8,000/- | Level-2 | PKR 8,000/- |
| Seats: | Level-1 | 10 | Level-2 | 10 |
| Venue: | RTE Networking Lab | | | |

Tentative Course Outline

| Ethical Hacking Level-1 | Theory & Practical |
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| <p>Introduction to Ethical Hacking Elements of Security Phases to perform Hacking Types of Hacker Attacks Vulnerability Research & Tools Hacktivism Footprinting Reconnaissance Information Gathering Methodology of Hackers Competitive Intelligence gathering Tools that aid & Footprinting steps Scanning Scanning Methodology Checking live systems Checking open ports Scanning techniques Scanning Tools Banner Grabbing OS Fingerprinting Enumeration Techniques for Enumeration SNMP Scan Active Directory Enumeration Countermeasures System Hacking Types of Password Attacks Keyloggers Spyware Rootkits Steganography Introduction to Trojans Types & Working of Trojans Countermeasures Tools to detect Trojans Viruses & Worms Different characteristics and types of virus Basic working and access methods of virus Anti-Virus Software Etc.</p> | |
| Ethical Hacking Level-2 | Theory & Practical |
| <p>Sniffing Types of sniffing ARP and ARP spoofing attack MAC flooding Sniffing tools Ethereal & Wireshark Social Engineering Types of Social Engineering Social Engineering Threats and Defenses Countermeasures for Social engineering Phishing Phishing Methods Process of Phishing Types of Phishing Attacks Anti-phishing Tools Ways for Getting Email Account Information Denial of Service(DOS) Attack BOTs Distributed Denial of Service (DDoS) Attack Worms and their role in DDoS attack Session Hijacking Difference between Spoofing and Hijacking Countermeasures for Session Hijacking Cryptography Encryption and Decryption Data Encryption Standard (DES) Message Digest Functions Cryptography Tools Cryptography Attacks Wireless Networking Types of Wireless Networks Setting up a WLAN How to Access a WLAN Steps for Hacking Wireless Networks Cracking WEP Etc.</p> | |