

Ethical Hacking & Information Security Workshop Curriculum

Course Duration – 16 hours (Will be covered in 2 days, 8 hours)

Concept of Hacking

- **Reading the Hacker's mind and Understanding the hacking psychology and methodology**
 - Get to know how a Hacker thinks and prepares for his attack
 - Types of Hackers and their mentality
 - Steps performed by a Hacker to attack the target
 - How an attacker uses the freely available resources in his attack
 - Hiding your identity while performing the attack

Email Hacking

- **Email Forgery**
 - How an Email travels from sender to the receiver
 - Sending fake Emails, how terrorists send threatening Emails
- **Email Password Hacking**
 - Cracking the Email ID Passwords using the fake Websites
- **Email analysis**
 - Tracing the Email path and locating the Original Sender of the Email

System Hacking

- **Targeting a Windows System**
 - Cracking Windows password using the Bruteforce technique
 - How to bypass the Login Screen and directly Login as the Administrator of the Computer
 - Grant unlimited access to a limited user
 - How to use a keylogger to hack the passwords on a computer
 - Hiding secret messages behind images
- **Protecting your System resources**
 - Configuring strong passwords
 - Change the Boot sequence
 - Applying the File and Folder security
 - Hiding files. Encrypting data on the hard disk with a password
 - Detecting the Keylogger on a Local Computer

Trojans

- How does a Trojan works
- Building a Trojan server and binding it with any other file as hidden
- Controlling the remote computer from your computer
- Detection of Trojan on a Local computer and removing it manually

Attacks on Network

- **Performing the LAN based attacks**
 - Enumerating the Network details
 - Sniffing the Network Data
 - Poisoning the Network details and hacking the passwords
 - Perform the DNS Spoofing attack
- **Counter apart the Network attacks**
 - Trace the attacker on the Local Area Network and shutting down the network attacks

Web Server as a Target

- **Web Application Attacks: Live Demonstrations**
 - Google Hacking
 - Input Validation attacks
 - Website Enumeration
 - Placing backdoors in Website
- **Putting breaks on Web Application attacks**
 - Proper Input validation
 - Directory access controls
 - Deny Google to your website

Wireless Hacking

- **Cracking Wireless Network Password**
 - Checking out the Wireless network details and cracking the WEP key encryption on the Wireless network
- **Wireless Security**
 - How can you make your Wireless network secure and very to hard to be cracked?