

## Ethical Hacking Course Content

**Overview:** The purpose of ethical hacking is to evaluate the security of a network or system's infrastructure. It entails finding and attempting to exploit any vulnerability to determine whether unauthorized access or other malicious activities are possible.

### **Day 1**

#### **Session 1 : INTRODUCTION TO ETHICAL HACKING**

- Introduction to Internet
- Introduction to Networking
- Introduction to Ethical Hacking

#### **Session 2: ETHICAL HACKING START UP BASICS**

- Information gathering and Google Hacking (Theory and Practical)
- Windows Security (Theory and Practical)
- SQL Injection Attacks (Theory and Practical)

#### **SESSION 3: FURTHER PRACTICAL**

- Phishing, Trojan and Viruses.
- Session hijacking and Cookie grabbing.
- Social Engineering Attacks.
- SQL Injection Using DVWA
- Introduction of SQL
- What are SQL Injection and DVWA ?
- Checking SQL Injection Vulnerability(Demo)
- Basic strategy of SQL Injection (Demo)
- Getting login credentials SQL Injection (Live Demo)
- URL and Forms Demo.
- SQL Query SELECT,DROP etc.(Demo)
- SQL Cheat Sheets(Demo)
- Using Source Changes to bypass client side validation (Demo).
- Live Demonstration of the Attacks.(Demo)
- Using SQL Injection Tools (Demo)
- How to protect your System to Attacks.

## Day 2

### Session 1: DNS & SPOOFING

- DNS Spoofing
- E-mail Hacking, Forging and Tracing.
- Fake SMS & Calls
- Charge/Penalties against Hacking an INDIA

### Session 2: HACKING USING BACK TRACK

- Man-in-the-Middle Attack (MITM Attack)
- Cross-site-scripting Attack(XSS)

### Section 3: PROJECT IMPLEMENTATION AND TESTING

- Live Info gathering (Nmap, Maltego etc.)
- Live active and passive scanning
- Live DNS Hijacking(DNS Spoofing)
- Live cache poisoning.
- Live XSS attack with cookie grabbing
- Live DVWA and Web-goat for testing
- Live key-loggers attacks
- Sending fake E-mails and Email Forging
- Fake Calls and call Forging
- Live Website hacking using SQL Injection
- Live MITM Attack(APR Spoofing)

### Session 4:

- Query
- Competition
- Certificate Distribution