

## **Week-1 Month-1**

1. Introduction to Cyber Security & Information Security
2. hacking phases and security issue
3. Methodologies to attack the target recent bug
4. Ipv6 threats and terminology
5. proxy servers
6. VPN overview
7. attacking vector

## **Week-2**

1. Email Tracing & Protection
2. Email Forgery, Spawning, Spoofing, Tracing - Flooding & Bombing with Security
3. Attacking Through IP Address – Metasploit Browser Based Attack Email Security - Headers and Authentication Based
4. IP Address & MAC Address Spoofing – Including ARP & RARP Protocols
5. introduction of Yougetsigal
6. google dorks & GHDB

## **Week-3**

1. footprinting
  - 1.1 using relation search
  - 1.2 footprinting via mirroring tool
  - 1.3 whois, domaintool,
  - 1.4 footprinting via Backtrack
  - 1.5 network footprinting

## **Week-4**

1. scanning introduction
2. scanning methodologies
3. Port scanning
4. networkingscanning
5. scanning beyond IDS
6. banergrabing

## **Week-1 Month 2**

1. scanning
2. scanning tool in BT
3. use of scanning tool ZAP, acunetix, nessus, netcraft,zmap
4. report generation
5. banner grabbing
6. drwaing network diagram

## **Week-2**

1. enumeration
2. enumeration tools in kali or BT
3. network enumeration
4. SNMP enumeration
5. pingswep, hping3 use
6. netbios enumeration

## **Week-3**

1. system hacking
2. system hacking via BT
3. use of key logger
4. hacking via use

5. crackin password linux, windows

6. metasploit hack xp, 7

## **Week-4**

Virus worms and trojan

## **Week-1 Month-3,4**

web site hacking

1. sql bypass

2. sql error base

3. sql firewall bypass

4. Upload Shell

## **Week-2**

1. understand and uploading shell

2. perl scripting

3. web exploit

4. XSS

5. IFi RFI

## **Week-3**

1. sniffing via cain able

2. sniffing via wireshark

3. phishing

4. dos&ddos

5. etthercap sniffing

## **Week-4**

WIFI

1. wireless basic overview WEP, WPA, WPA2

2. making fake AP
3. hacking WEP,
4. hole in mole
5. mitm attack
6. use of Gerix
7. use of fern
8. cracking without dictionary

## **Month-5**

Pen testing Hacking with Backtrack

Online money making

## **Month-6**

Project work and implementation