Cyber Security and Ethical Hacking

Roadmap v-2.0

1st week
- What is Ethical Hacking?
- Why we have to Learn Ethical Hacking?
- Ethical Hacking career
- Homework
- Login Page injection
- SQLi

2nd week
- Open Source Intelligence
- Live OSINT project
- Tracking of a target person
- Recover any deleted files. [PC or Mobile]
- Cryptography
- Cypher Language
- From Social Media
- Web server Whois
- subdomain
- Reserved IP Location
- Which platform used for developing
- Ping to identify server details
- Collecting Information from Email Header
- Email Tracking Tools
- Evading IDS, Firewalls, and Honeypots
- Malware Threats [Virus]
- o Home Work

3rd week -- 2 classes
- Denial-of-Service
- What is a Denial of Service Attack?
- What Are Distributed Denial of Service Attacks?
- How Distributed Denial of Service Attacks Work
- Live DDOS
  - What is a Trojan?
  - Batch programmer

- File Extension Viruses
- Pen Testing for Trojans and Backdoors
- Penetration Testing for Virus
- All Possible Passwords Cracking Method
- Password Guessing
- Default Password
- Session Hijacking
- Private exploit of Arena Web Security
- Compromising Session IDs using Sniffing (Live practice)
- Compromising Session IDs by Predicting Session(Project)
- o HomeWork

4th and 5th week:
- SQL Inject
- PHP & MySQL Basic
- WAF Bypass (Live practice)
- POST base SQL Injection
- Error Base / X-path
- o Home Work

6th week -- 2 classes
- Server Shell script
- Web Backdoors
- Shell upload
- Target IP Exploit (Live practice)

7th week -- 2 classes
- Content Management System
- Website Development (Live Project)
- Wordpress
  - Wp Exploit (Live)
  - CMS Vulnerability Assessment

- keylogger, Spyware
- How to make keylogger Spyware?
- How to bind keylogger file in Real setup File?
- Ardamex Keylogger
- Hardware Keyloggers
- How to Defend Against Keyloggers
- Paid course on keylogger project [free]
- o Home Work

- subdomain
- Reserved IP Location
- Which platform used for developing
- Ping to identify server details

8th week -- 2 classes
- LFI/RFI/RCE (Paper)
- Website Security, Measuring website quality
- Web Server security, Cpanel
- o Home Work

13th week -- 2 classes
- NMAP
- Computer Network Penetration Test
- FIN scan
- XMAS scan
- TCP scan
- UDP scan
- IDLE scan
(Reserved)

09th week
- Cross site request forgery
- Cross Site Scripting (XSS)
- Social Engineering
- Phising
- Social Media account recovery process.
- Fb / Gmail Account Security and Disable concept.
- o Home Work

14th week -- 2 classes
- Website Penetration Testing:
- What is website Penetration Testing?
- Website Penetration Testing Tools
- Discussion of the different types of vulnerabilities
- Defining a web application test scope and process
- Defining types of penetration testing
- Tools and manual process of penetration testing
- Some more ++
- o Home Work

10th week -- 2 classes
- Linux - Kali Linux
- Burpsuite
- o Home Work
- Hacking Lab
- Kali Linux Tools
- o HomeWork

15th week -- 2 classes
- Outsourcing in Fiverr / Upwork:
- What is Fiverr & Upwork?
- What type of work would suit you?
- How create a GIG and Sell it?
- Fiverr freelancing support.
- Order and Payment
- Dollar payout process
- o Home Work

11th week -- 2 classes
- System Hacking
- Cross Site Scripting
- Authentication Bypass
- Portswigger lab solve

16th week
- Outsourcing in Hackerone and Bugcroud
- How to Hackerone and Bugcroud
- First Bug Report in Hackerone and Bugcroud
- o Home Work

12th week -- 2 classes
- With kali linux
- Footprinting and Information Gathering:
- From Social Media
- Web server Whois

- **Bonus concept:** Deep Web, Dark Web, Tor Network
- HTML and CSS Injection (optional)
- Hacking Mobile Platfrom (optional)
- Proxy Tool
- Free Proxy Servers
    - Website Cookies history

(Paper base)

- Bonus project:
- Android keylogger
- CCNA Basic