



Course Roadmap

Version 7.0

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1st week

2 Credit

- ▶ What is Ethical Hacking?
- ▶ Why we have to Learn Ethical Hacking?
- ▶ Ethical Hacking career
- ▶ Login Page injection
- ▶ SQLi
- ▶ Assignment

2nd week

3 Credit

- ▶ 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]
- ▶ Assignment

3rd week (2 classes)

3 Credit

- ▶ Denial-of-Service
- ▶ What is a Denial-of-Service Attack?
- ▶ What Is 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)
- ▶ Assignment

4th and 5th week

3 Credit

- ▶ SQL Inject
- ▶ PHP & MySQL Basic
- ▶ WAF Bypass (Live practice)
- ▶ POST base SQL Injection
- ▶ Error Base / X-pat
- ▶ Assignment

6th week (2 classes)

2 Credit

- ▶ Server Shell script
- ▶ Web Backdoors
- ▶ Shell upload
- ▶ Target IP Exploit (Live practice)

7th week (2 classes)

3 Credit

- ▶ 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]
- ▶ Assignment

8th week (2 classes)

3 Credit

- ▶ LFI/RFI/RCE (Paper)
- ▶ Website Security, Measuring website quality
- ▶ Web Server security, cPanel
- ▶ Assignment

9th week

1 Credit

- ▶ Cross site request forgery
- ▶ Cross Site Scripting (XSS)
- ▶ Social Engineering
- ▶ Phishing
- ▶ Social Media account recovery process.
- ▶ Fb / Gmail Account Security and Disable concept.
- ▶ Assignment

10th week (2 classes)

2 Credit

- ▶ Linux - Kali Linux
- ▶ Burpsuite
- ▶ Hacking Lab
- ▶ Kali Linux Tools
- ▶ Assignment

11th week (2 classes)

3 Credit

- ▶ System Hacking
- ▶ Authentication Bypass
- ▶ Portswigger lab solve

12th week (2 classes)

3 Credit

- ▶ With kali Linux
- ▶ Foot printing and Information Gathering:
- ▶ From social media
- ▶ Web server Whois
- ▶ subdomain
- ▶ Reserved IP Location
- ▶ Which platform used for developing
- ▶ Ping to identify server details

13th week (2 classes)

2 Credit

- ▶ NMAP
- ▶ Computer Network Penetration Test
- ▶ FIN scan
- ▶ XMAS scan
- ▶ TCP scan
- ▶ UDP scan
- ▶ IDLE scan (Reserved)

14th week (2 classes)

3 Credit

- ▶ 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 ++
- ▶ Assignment

15th week (2 classes)

3 Credit

- ▶ 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
- ▶ Assignment

16th week (2 classes)

2 Credit

- ▶ Outsourcing in Hackerone and Bugcrowd
- ▶ How to Hackerone and Bugcrowd
- ▶ First Bug Report in Hackerone and Bugcrowd
- ▶ Assignment

Thesis

6 Credit

- ▶ Thesis (2 Weeks)

Internship

6 Credit

- ▶ Internship (30 Days)

★★★★ Total Credit 50

- ✓ This Credit System only works in Arena Web Security.
- ✓ Minimum 44 Credits along with Thesis, Internship & Final Exam have to complete to avail the certificate.

Mark distribution (Full Marks 100)

- ▶ Obedient to teachers : 20
- ▶ Supportive to course mate : 10
- ▶ Mid exam : 10
- ▶ Viva : 10
- ▶ Thesis : 20
- ▶ Final written exam : 30

Bonus concept

- ▶ Deep Web, Dark Web, Tor Network
- ▶ HTML and CSS Injection (optional)
- ▶ Hacking Mobile Platform (optional)
- ▶ Proxy Tool
- ▶ Free Proxy Servers
- ▶ Website Cookies history