

# Diploma in Cyber Security & Ethical Hacking

Forensic Academy (Indian's Ethical Hacking and Cyber Security Training Academy)

- Duration 1 year
- Full Diploma Fees- RS 70,000
- Exam fee Included
- Certificates fee Included
- Certificates Courier payment not included
- Online Live Classes Only using zoom or google meet
- Exam mode online
- Class Test after complete one module

## Course Detail:

### ➤ Introduction

Introduction to Cyber security and ethical hacking  
Introduction to all Underground Ethical Hacking Community  
Types

### ➤ Basics of Operating System and architecture

Introduction to OS architecture  
window , Linux , mac

### ➤ Linux

Introduction to Linux  
Linux Architecture  
Installation VM or virtual box  
Installation Linux like :- Kali , ubuntu , parrot  
Linux File system and Commands  
What is Shell and Bash Scripting  
Environment Setup and Lab setup  
Introduction to All Linux commands and Tools

### ➤ Networking

Introduction to Networking  
Lab setup for Networking  
Protocols like UDP , ICMP , TCP etc  
IPv4 or IPv6

CISCO packet Tracer tools

## ➤ Network Security

Information Gathering and Footprinting

Network Vulnerability Assessment

WiFi hacking and security

Router Penetration testinging

Network Hacking

Port Scanning

Nmap and zenmap

Metasploit Framework

Network scanning

Scapy and Hping3

wireshark

Secure Network Design

VPN and Proxy server for Anonymous in Cyber security world

Networking Testing Report

## ➤ Web security and Hacking

Introduction to web

Frontend and backend

Hacking and Security

Advance Burp suite and zap tool

OWASP TOP 10

XSS attack

Sql injection

LFI or RFI

CSRF , SSRF

Sensitive Data exposure

Xml

Broken access control

Security misconfiguration

Open redirection Vulnerability

OTP bypass

Race condition

Code executing

OS command injection

Google Dorking

Admin page bypassing

Database hacking and security

Payment gateway bypassing

Firewall bypassing

VAPT

Touchup with Javascript , PHP , Python

Apache or NGINX server

Sql Database , MongoDB , maria DB

Denial of Service attack and DDOS

Brute Force attack

Phishing

Password Hacking

Hash Password Cracking

Attack on Live website

MITM attack

Data Breaching

Secure Website Development

Web vulnerability assessment and penetration testing

Report Designing

## ➤ CTF Weeks

1)bluemoon.ova

2)cybersploit.ova

3).kioptrix level1.ova

4).basic\_penetesting1.ova

5).driftingblues.ova

6).colddb.ova

7).sosimple.ova

8).Driftingblues2.ova

9).Driftingblues3.ova

10).covfefe.ova machine

11).toppo .ova machine

12).web developer 1 ova machine

some hacker one machines

some Tryhack me machines

## ➤ Bug Bounty Hunting

Introduction to Bug Bounty Hunting

Target Choosing

Hackerone , Bugcrowd

Top Bug hunting tools :-

- Subfinder , knockpy , httpx
- Burp suite Full

- FFUF , Waff
- GF , GAU, waybackurls
- Dalfox , Githound
- Paramspider
- Dirsearch
- Dirbuster or Gobuster
- Big bug bounty recon tool
- Log4j scanner
- Xss scrapy
- Nuclie
- Eyewitness
- Wpsscan
- Airxss , qsreplace , Gxss , knxss
- Many more tools.....

Manual Testing and Automate Testing

Nessus , Appscan , Netsparker , Acunetix

Report writing

## ➤ **Basic Android testing**

- Android Architecture
- APK
- Application testing
- Firebase
- Android testing using burpsuite
- Automated App Testing
- Manual App testing
- Application files Analysis
- Tools based Analysis
- Android security and Hacking

## ➤ **OS and Server Hardening**

OS Architecture works

OS security

Window , linux Hardening

Secure Services

Log and Events handling

Prevent OS

Antivirus  
Data  
Introduction to server  
Physical server security  
Logs analysis  
IDS or IPS  
Security server Configuration  
How to Design own server  
Server Development  
Red hat linux , Mint linux , Ubuntu linux  
Window server 2012 , 2019  
Automatic Tools  
Manual configuration  
Log or Event handling  
File encrypting  
Root password configuration  
Usb port Disable  
Apache security  
NGNIX security  
Mod security enable  
Enable firewall  
System Hardening | Windows | Linux | Mac

## ➤ Forensic

**(Corporate Forensic | Criminal Forensic)**

Computer Forensic | Mobile Forensic | Server Forensic | Cloud Forensic | social media Forensic

- Introduction
- Chain of custody & 6A's of forensics
- Legal study of evidence acquisition
- Disk based forensics
- Network forensics
- Data packed Analysis
- Browser Forensic
- USB forensics
- Memory Analysis | forensic
- Window forensic
- Android | IOS Forensic
- Tools based on forensic study
- Deleted data recovery

- Image forensic
  - Evidence Recovery
  - Protocol standard
  - WLAN security
  - Dead vs Live forensics
  - HDD & Recovery forensic
  - Video & CCTV forensic
  - Camera forensic
  - WhatsApp | Instagram | snapchat forensic
  - CLOUD based forensic
  - Contact number forensic
  - SIM card forensic
  - Gallery images forensic investigation
  - Transaction Forensic
  - Antivirus Forensic
  - IP Forensic
  - Router Forensic
  - Forensic with CDAC GOVT. forensic tools
- Tools like:- FTK , Autopsy , Molekit forensic , Rescue pro , Stellar data recovery , Mobile check , win lift and many more.....

❖ *Special Forensic All tools kit providing by Forensic Academy for Students*

❖ *Special Forensic Material for Students*

❖ *Free life time forensic live webinars only for forensic academy students*

❖ *Advance Forensic Analyst Certificate by forensic Academy for only Registered Students*

## COMPLIANCE

- Basic principles of assessment & auditing
- Types of Auditing
- IT LAWS and ACTS
- ISO200:200:203basics
- PCIDSS
- Risk Assessment

- BCM
  - Network Security Auditing
  - Physical Security and Compliance
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## ➤ Certified Malware Analysis

- Malware Fundamentals
- Malware Costing
- Types
- Virus and Trojans
- Antivirus working
- Live Malware sample
- Tool kit providing
- Malware encryption
- Malicious Code & Pattern analysis
- Complete Malware analysis
- Static Malware Analysis
- Dynamic malware Analysis
- In-depth study of Self-Defending Malware
- Maneuvering Techniques
- Persistence Techniques
- Self destruction
- Self Avoidance
- Security degradation
- Malicious Documents
- Memory Forensics
- Registry Settings
- System Settings
- Keylogger Spyware Software
- Trojans and Backdoors Attack
- Virus Worm & Trojan
- Rootkits

- Opensource Trojan horses
- Live Malware Analysis and testing
- Wannacry ransomware Analysis and testing
- Malware Analysis Tools
- Yara rules
- Build own yara rules
- Yara gen auto rules builder
- Android Malware Analysis
- Manual and Automated Analysis
- Build basic malware and virus using c , c ++ , python
- Android malware testing
- Automatically Testing + Manual Testing

### ➤ **Reverse Engineering (special 3 week training)**

- Fundamental of Reverse Engineering
- Software Reverse Engineering
- Labs solve
- How to crack software
- Power ISO , video editor , text editor , winrar cracking
- USING GHIDRA NSA tool
- X64dbg

### ➤ **Cyber Crime Investigation one week Training**

- Cyber Crime Investigation Fundamental
- Dark web and Deep web monitoring
- IP Training
- VPN and Proxy Server
- Event Handling
- Defensive Security 2 hrs classes
- National Security Database
- Phishing Training
- Data Theft

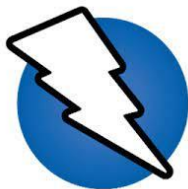


- Prevent Cyber Attacks
- National cyber-crime reporting Portal
- Email Header Analysis
- Banking Fraud and ATM cloning
- Social media Networking sites fraud
- Cyber Cell Investigation Process

## Red Teaming VS Blue Teaming one Week Training

Red Teaming Tools

Blue Teaming Tools



AUTOPSY  
DIGITAL FORENSICS



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