



**KALINGA INSTITUTE  
OF INDUSTRIAL TECHNOLOGY**  
Deemed to be University U/S 3 of the UGC Act, 1956



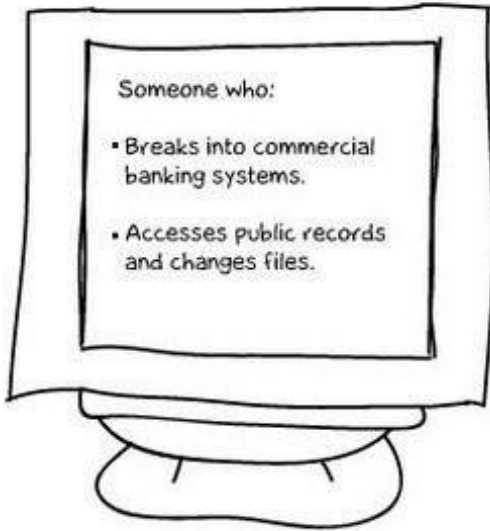
# KONNEXIONS

[ETHICAL HACKING]

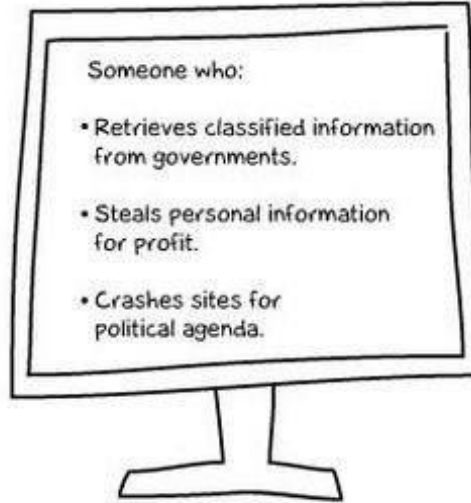
DISCUSS | LEARN | CREATE



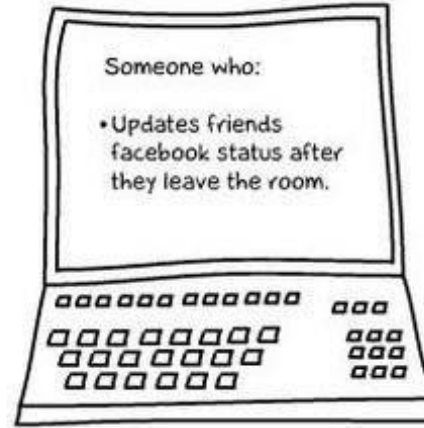
A "Hacker" in 1997:



A "Hacker" in 2003:



A "Hacker" in 2011:



When you put 'password' in the password field and it works.

"But we are hackers and hackers have black terminals with green font colors!"

- John Nunemaker

**Hackers Elite**





# Course Description

An Introductory *Training-cum-Certification* course for students looking to enter the Cybersecurity industry and become a skilled security specialist , aka A Hacker!

You will learn how to **scan, test, hack** and **secure** target systems. The program cover the Five Phases of Ethical Hacking:

- **Information Gathering**
- **Enumeration**
- **Gaining Access**
- **Maintaining Access**
- **Covering your tracks.**







## Target Audience

App and Web Developers,  
Programmers, Students  
looking to enter the field of  
Cybersecurity



## Duration

**90-min** LIVE Weekend sessions  
Total: 8-10 Classes  
Recommended Self-practice:  
*3-4 hrs/week*

## Pre-requisites

Basic CS and Programming  
knowledge.



## Certification

An exam will be held post  
completion of the course.  
Candidates that successfully  
pass the exam will receive  
their official Course Certificate  
from **Konnexions** (*Recognized  
by KIIT*).



# Course Outline

## Basics of LINUX & Networking

Introduction, Setup the Lab environment,  
Linux commands, Staying anonymous

01

## Scanning & Enumeration

IP, port, OS and vulnerability scanning  
using NMAP

03

## Web Application Pen-testing - I

Basic Web concepts, SQL Injection,  
Command File Inclusion

05

## Reconnaissance / Footprinting

Information Gathering, Google Dorks,  
Network scanning, Shodan

02

## System Hacking

Windows and Android hacking using  
Metasploit

04

## Web Application Pen-testing - II

Cross Site Scripting (XSS), Arbitrary File  
Upload

06



# Course Outline

## Wireless Hacking

WiFi hacking using Wireshark and Aircrack-ng

07

## Man-in-the-Middle Attacks

MITM attacks using arpspoof in Kali Linux

09

## CTF Methodology

Tools, Methods, Scripts and sources to refer to successfully complete CTF challenges and pwn boxes.

11

## Session-Hijacking / Cookie Grabbing

Session hijacking using XSS, Reading and writing cookies

08

## Cryptology

Different encryption and cryptographic methods.

10

## Certification EXAM (Theory + Practical)

12

# Post course completion



Hack The Box  
PEN-TESTING LABS

hackerone



## Certifications

For people looking to advance in this field, this will help you gain an edge over others in terms of knowledge and experience.



## CTF's / Competitions

Capture-The-Flag events are organized globally with hefty perks and prizes. These may help you standout in the crowd.



## Bug Bounty Hunting

Companies offer a huge bounty to find vulnerabilities in their system and network infrastructure. Bounties generally range between \$50 - \$150K



## Freelance / Jobs

You can start applying to Jobs, Internships, or start working on a contract basis for companies in need of Security Engineers.



# Career Roadmap

## Penetration Tester

Authorized to simulate a cyber-attack on a computer system, and evaluate the security of the system.

Salary - Rs.20,00,000 – Rs.25,00,000

## Security Systems Administrator

Responsible for managing all IT-related security and safety issues within a company. This can include developing systems and policies, as well as overseeing the implementation of procedures to secure both company and customer data.

Salary - Rs.7,00,000 – Rs.10,00,000

## Cyber Security Analyst

Assess, plan, and enact security measures to help protect an organization from security breaches and attacks on its computer networks and systems.

Salary - Rs.12,00,000 – Rs.17,00,000

## Information Security Engineer

They plan and carry out security measures to monitor and protect sensitive data and systems from infiltration and cyber-attacks.

Salary - Rs.8,00,000 – Rs.12,00,000

## IT Security Architect

Assess their organizations' information technology and computer systems, identifying strengths and weaknesses.

Salary - Rs.10,00,000 – Rs.15,00,000





