

ETHICAL HACKING

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3G IRPS PRESENTS

CYBER SECURITY- ETHICAL HACKING COURSE



3G IRPS
INSTITUTE OF INFORMATION TECHNOLOGY
BUILD INDIA TO SERVE THE WORLD

@3G IRPS, IIT MADRAS
RESEARCH PARK

CYBERSECURITY COURSE CURRICULUM

This course needs a period of 8 days to master the Ethical Hacking major topics. This Course period covers the below.

Course outcomes

- Students can find the Vulnerabilities present in the web application and servers
- Participate in Responsible Disclosure Program of Tech giants like Google, FB and more
- Gain a internship from leading cyber security firm
- Placement Assistance based on performance
- Gain a certificate from leading security

Free access to LetsHack Foundation Hackathon for two years.

Day 1 : Introduction to Ethical Hacking and Virtual Machines

- Basics
- Methodologies of Hacking
- What hackers really do
- How good hackers earn money
- A big picture of Cybersecurity
- How Cybersecurity companies really work
- OWASP 10 Hacking methods
- Installing a Virtual Machine
- Introduction to Linux
- Linux Basics
- Introduction to GitHub and Git - Import

Day 2 : Basics on Hacking

- Information Gathering
- Introduction to information gathering tools
- Using Google for Hacking
- Opensource tools for hacking
- Scanning the target
- Types of scanning
- Using Opensource tools for scanning
- Hacking servers during scanning

Day 3 : Introduction to some advanced tools and OWASP Top 10 Vulnerabilities

- Burpsuite
- Metasploit
- Wireshark
- Top 10 Vulnerabilities discussion
- OWASP #1 Vulnerability



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Day 4 : OWASP #2 Vulnerability

- Broken authentication and session management
- Insecure Direct Object References - IODR
- Buffer Overflow Attacks

Day 5 : OWASP #3,4 Vulnerability

- Sensitive Data exposure
- Broken Access Control
- XML external entities

Day 6 : OWASP #5,6 Vulnerability

- Security Misconfiguration
- Cross site scripting (XSS)
- Types of XSS
- Bypassing WAF for XSS

Day 7 : OWASP #7,8 Vulnerability

- Cross Site Request Forgery-CSRF attacks
- Components using known vulnerabilities
- Improper Authentication
- Improper Authorization

Day 8 : OWASP #9,10 Vulnerability

- Unvalidated Redirects and Forwards
- Insufficient logging and monitoring





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