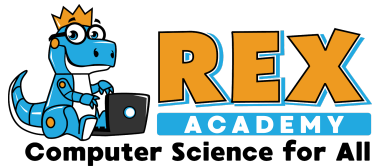


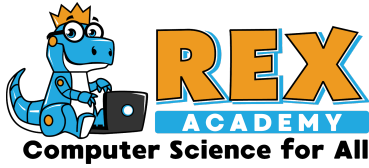
## CYBERSECURITY CURRICULUM

### LEVEL -1

Topic Name	Tools and Media
<b>Chapter - I With Great Power Comes Responsibilities</b>	Slides of hacking movies and quotes of hackers
Define Hacking	
Myths of Hacking	
Do's & Don'ts	
Types of Hackers	
<b>Chapter - II Who am I</b>	Command Prompt, whatismyip.com, facebook, instagram, Email etc
Digital Identity	
IP address	
MAC Address	
<b>Chapter - III We are every where &amp; No where</b>	hidemyip,securitykiss,hidemymac, crazycall, ezacmai, phpEmailspoofer
IP Spoofing	
Email Spoofing	
Call spoofing	
Advanced VPN	
<b>Chapter - IV Now you can see me</b>	Whois, whois.com, tracert, nmap,netcat,ping,zenmap
Who is	
Tracert	
Nmap & Port Scanning	
Ping	
<b>Chapter - V Crypt it</b>	Hashkiller, python hash generator
Introduction of Cryptography	
Basic Algorithms	
Hashes	
Encryption & Decryption	
<b>Chapter - VI Lets Break</b>	John the ripper, Hydra



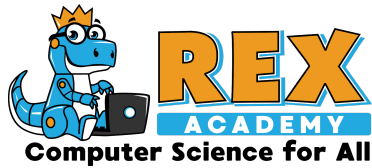
Tradition Password patterns	
John the ripper	
Brute force in depth	
Cracking Windows Password from Boot	
SAM Dump Crack	
Blind Change Windows Password	
<b>Chapter - VII Games of Trojans</b>	Darkcomet, Poison IVY,ardamax keylogger
Malware	Wanna cry ransomware case study
Backdoors	
Ransomware	
RAT Functionality	
Crypter FUD	
Enboxing trojan	
<b>Chapter - VIII The great KALI</b>	Vmbox, Kali Linux.vmx
Installation of VMware	
Kali VM setup	
Linux 101 - Basics	
Bash scripting	
<b>Chapter - IX MITM</b>	Wireshark, tcpdump, Ettercap
ARP Concepts	
SSL STRIP	
TCP Dump	
Introduction to wireshark	
Man in the middle attack	
<b>Chapter - X Put on a happy face</b>	SEE KIT, kali linux
Introduction to Social Engineering	
Individual Attacking Vector	
Phishing	
Vishing	
Pdf Exploit	
MS office	
Password Guessing	



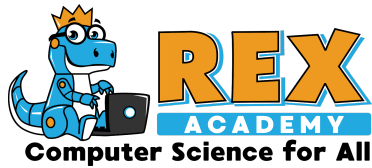
Social engineering exploit tool kit	
<b>Chapter - XI Happy neighbour WIFI</b>	net stumber, aircrack, kali linux
<b>WIFI 101</b>	
WEP Cracking	
WPA-2 Cracking	
Caffe-latte attack	
War driving	
<b>Chapter - XII Secure Ending</b>	Mc Café antivirus, Malware bytes
Windows Hardening	
User Privileges	
Anti Virus	
<b>Chapter - XIII Play time</b>	
CTF	

## LEVEL 2

Topic Name	Tools & Media Used
<b>Chapter I New Era Be the King</b>	Exploit DB, splot, exploits
Privilege Escalation	
Backdoor Revisted	
<b>Chapter II The one</b>	
Introduction to metasploit	
meterpreter	
Linux 101 - Intermediate	
<b>chapter III Network</b>	Vmware, vmbox
Vmbox Revisited	
Port Forwarding	
Setting up private network in vmbox	
<b>Chapter IV Ghost Protocol</b>	Wireshark



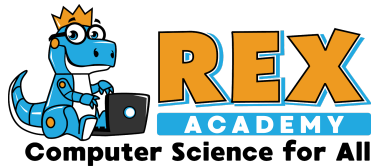
OSI Model, tcp/ip Model	Case study on data transmission in different physical layers I,e lan,wifi
Network Layer protocols	
Application Layer Protocol	
Chapter V Firewall	Snort, IP tables
Principles of Firewalls	Checkpoint, Palo Alto
IDS vs IPS	
Snort	
IP Tables & fifo	
Checkpoint & Palo Alto on hands	
<b>Chapter VI Spun the web</b>	AWS/GCE/AZURE/Digital Ocean DVWA
Creating AWS/GCE/Azure Cloud account	
Creating cloud vm	
Registering sample domain	
Deploying Sample web App	
<b>chapter VII Doctor Strange Injection</b>	SQLMAP, BURP SUITE
Introduction to OWASP & SANS 25	
Sql Injection	
Commands Injection	
RCE	
XSS	
CSRF & XST	
LFI & RFI	
<b>Chapter VIII Practice Makes anyone perfect</b>	KALI Tools
Metasploitable	
Kioptrixx	
Web Goat	
Badstore	
Mutillidae	
<b>Chapter IX Sherlock and logs</b>	Log Analyzer



Log Analysis	
Event Analysis	
Incident Recreation	
<b>Chapter X \$ Commercial Tools \$</b>	
Acunetix	
HP Web Inspect	
Netsparker	
Burpsuite Pro	
<b>Chapter XI Penetration Testing</b>	
Creating project Scope	
Do's And Dont's	
Agreement Writing	
Tools & Licensing	
PT Cycle	
Generating POCS	
Report Writing	
Remedy Implementation	
<b>Chapter XII END GAME</b>	
CTF	

## **Table of Content for CEH Certification**

Setting up labs
Vulnerable machine cracking
Practice Tests
Various types of footprinting, footprinting tools, and countermeasures
Network scanning techniques and scanning countermeasures
Enumeration techniques and enumeration countermeasures
System hacking methodology, steganography, steganalysis attacks, and covering tracks



Different types of Trojans, Trojan analysis, and Trojan countermeasures
Working of viruses, virus analysis, computer worms, malware analysis procedure, and countermeasures
Packet sensing techniques and how to defend against sniping
Social Engineering techniques, identity theft, and social engineering countermeasures
DoS/DDoS attack techniques, botnets, DDoS attack tools, and DoS/DDoS countermeasures
Session hijacking techniques and countermeasures
Different types of web server attacks, attack methodology, and countermeasures
Different types of web application attacks, web application hacking methodology, and countermeasures
SQL injection attacks and injection detection tools
Wireless Encryption, wireless hacking methodology, wireless hacking tools, and wireless security tools
Mobile platform attack vector, android vulnerabilities, jailbreaking iOS, windows phone 8 vulnerabilities, mobile security guidelines and tools
Firewall, IDS and honeypot evasion techniques, evasion tools, and countermeasures
Various cloud computing concepts, threats, attacks, and security techniques and tools
Different types of cryptography ciphers, Public Key Infrastructure (PKI), cryptography attacks, and cryptanalysis tools
Various types of penetration testing, security audit, vulnerability assessment, and penetration testing roadmap