



IDMTECHPARK

GUIDE'S FOR PERFECT CAREER PATHWAY



Ethical Hacking Course Syllabus



N.S.D.C
National
Skill Development
Corporation



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About Us

IDMTECHPARK global retail & corporate training solutions provider in Coimbatore, Erode, Trichy & Salem that offers a comprehensive range of training and placement services for both fresher's and professionals seeking new opportunities. The company commenced its IT training business in 2016. A pioneer in IT education, over the years, we have trained over 50k students. Idmtechpark has a wide range of courses, maintains education standards & provides placement assistance.

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About IDMTECHpark Education Quality

IDMTECHPARK is managed and developed by industry specialists with more than 8 years of expertise in the field. IDMTECHPARK offers a staff of highly skilled professional trainers who deliver effective IT training in a friendly setting, concentrating on the needs of each individual to help them succeed in a demanding work world. In the book of career and success, our staff never leaves a page unturned.

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IDMTECHPARK's versatile instructor-led training class rooms and lower-class sizes enable people to engage more easily and absorb knowledge, resulting in remarkable results for both themselves and the organizations for which they work. Our training programmes are adaptable and customizable to ensure that each participant gets the most out of their time with us. IDMTECHPARK focuses in providing hands-on IT training in over 30 different courses.

- We teach in-demand courses
- We provide impactful learning material
- Our teachers are well-selected & trained
- We follow world-class teaching methods
- Our courses include E-Projects
- We conduct technical workshops
- Exams are held and based on Exams providing Certification
- Certificates are recognized the world over
- Our course timings are flexible



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Our Recent Placement

Idmtechpark assists students in getting job placements on successful completion of their courses. Idmtechpark also provides recruitment assistance to organizations. Idmtechpark students are shortlisted based on the organization's requirement. To make students job-ready, Idmtechpark conducts workshops e.g. How to do Group Discussions, how to behave in a Personal Interview. From time to time, job fairs & campus recruitments are conducted. Workplace skills such as time management, making effective presentations and communication skills are also provided. All this helps students find appropriate jobs in the IT industry while also helping save companies recruitment costs.

Krishnaveni M

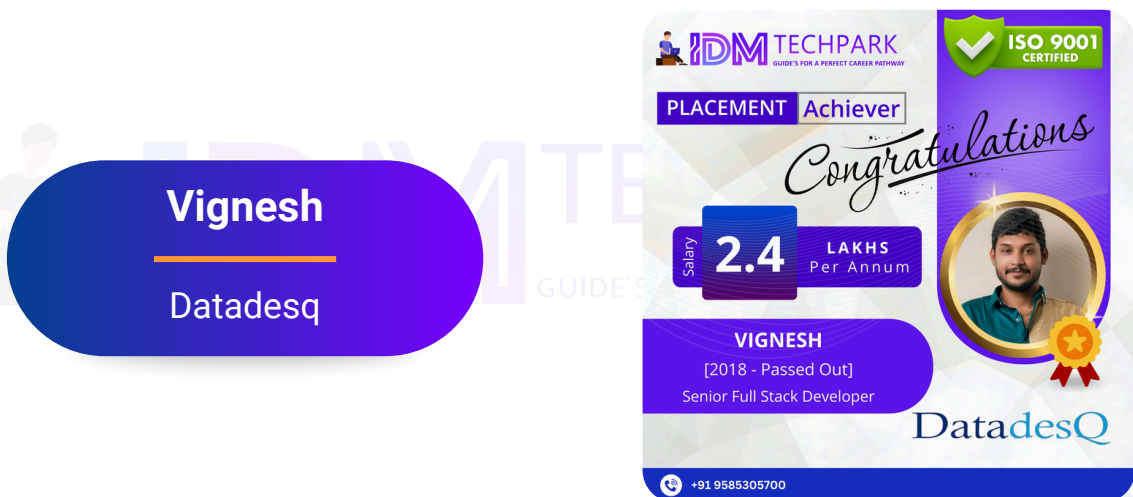
Frutterlabs





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Xccessor



Vignesh

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Accenture

Keerthana

AJS



Brindha Boopathi

AJS



Kavin Kumar

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Genpact



Surya

ZUCI

Pavithra

Vel Info Tech



Poovitha

Gray Matter



Ramesh

TDT

Siva Sankar
ST Cloudspark tech



Nabeel Hisham
VTail



Kalayarasan
Violet Infotech

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Our Alumni Working At



MODULE 1

Introduction to Ethical Hacking

- What is Ethical Hacking?
- Legal and ethical considerations
- Types of hackers: White Hat, Black Hat, Gray Hat
- Phases of ethical hacking

MODULE 2

Networking Fundamentals

- IP/TCP/UDP protocols
- OSI model
- Subnetting and DNS
- Network devices and ports

MODULE 3

Footprinting and Reconnaissance

- Passive vs Active Recon
- Whois, nslookup, Maltego
- Google Dorking
- Social Engineering basics

MODULE 4

Scanning Networks

- Nmap, Zenmap basics
- Identifying live hosts
- Port scanning techniques
- Banner grabbing

MODULE 5

Enumeration Techniques

- NetBIOS, SNMP, LDAP enumeration
- User and group discovery
- Tools: Enum4linux, SNMPwalk

MODULE 6

Vulnerability Assessment

- Vulnerability vs Exploit
- Vulnerability scanners (Nessus, OpenVAS)
- CVSS scoring system

MODULE 7

System Hacking

- Password cracking (John the Ripper, Hydra)
- Privilege escalation techniques
- Covering tracks: Clearing logs



MODULE 8

Malware Threats

- Types of malware (virus, worm, trojan, ransomware)
- Malware analysis basics
- Creating and testing trojans (in lab environment)



MODULE 9

Sniffing and MITM Attacks

- Packet capturing (Wireshark)
- ARP Spoofing
- DNS Spoofing
- SSL stripping

MODULE 10

Social Engineering

- Phishing attacks
- Pretexting & baiting
- Email spoofing
- Tools: SET (Social Engineering Toolkit)

MODULE 11

Denial-of-Service (DoS/DDoS) Attacks

- DoS vs DDoS
- Botnets & amplification
- Tools: LOIC, HOIC, Slowloris

MODULE 12

Session Hijacking

- Cookie stealing
- Session fixation and prediction
- Tools: Burp Suite, Firesheep



MODULE 13

Web Application Hacking

- OWASP Top 10 vulnerabilities
- SQL Injection, XSS, CSRF
- Command Injection
- Tools: DVWA, Burp Suite, OWASP ZAP

MODULE 14

Password Attacks

- Dictionary, Brute-force, Rainbow table
- Password policies & defenses
- Tools: Hashcat, Cain & Abel



MODULE 15

Wireless Network Hacking

- WEP, WPA/WPA2 cracking
- Evil Twin attacks
- Tools: Aircrack-ng, WiFi Pineapple

MODULE 16

Hacking Mobile Platforms

- Android & iOS vulnerabilities
- APK reverse engineering
- Tools: MobSF, Drozer

MODULE 17

Hacking Cloud Environments

- Cloud threats and misconfigurations
- AWS/Azure pentesting basics
- Tools: ScoutSuite, Prowler

MODULE 18

Metasploit Framework

- Exploit-db usage
- Finding and using exploits
- Payloads, listeners, and shells

MODULE 19

Reverse Engineering Basics

- Assembly basics
- Disassemblers (IDA, Ghidra)
- Analyzing malware and software

MODULE 20

Buffer Overflow Attacks

- Stack-based buffer overflows
- Writing simple overflow exploits
- Tools: Immunity Debugger

MODULE 21

Penetration Testing Methodology

- Pre-engagement activities
- Scoping and rules of engagement
- Reporting and remediation

MODULE 22

Web Application Pentesting

- Advanced Burp Suite techniques
- Testing for business logic flaws
- Bypassing authentication

MODULE 23

Digital Forensics & Incident Response

- Log analysis
- Chain of custody
- Imaging and evidence handling

MODULE 24

Laws, Certifications & Career Path

- CEH, OSCP, CompTIA Security+
- GDPR, HIPAA, PCI-DSS
- Career paths and salary expectations

MODULE 25

Capstone Project / CTF Challenges

- Simulate a real-world pentest
- Solve Capture the Flag (CTF) challenges
- Prepare a pentest report

Thank You

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