Cyber Security

Syllabus

TECHNOLOGICAL PROTECTION





COURSES

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Behind Every Great Institute is a Great Founder



Mr. Kunal Sir

Director of CJC EdTech by Kunal Sir.

Mr. Kunal Sonu, Director of **CJC EdTech by Kunal Sir,** holds a Master's degree in Computer Applications & has over **15+ years** of experience in Java/J2EE technologies. After resigning from Syntel, he pursued a career in teaching to provide in-depth knowledge and guidance to aspiring professionals. **Mr. Kunal** has delivered lectures at renowned institutions such as **Sinhgad Institutes, JSPM Group,** & **MMCOE, Pune.** With a passion for education, he is dedicated to helping **students achieve success in their careers.**

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Module 1 :-

Hardware's

- Motherboard and CPU's.
- Computer power supplies.
- Memory.
- Physical storage.
- Input/output devices.
- Display devices.
- Network cable and connectors.
- Printers and multi functional devices.



Module 2 :-

Basic Networking

- Introduction to network fundamentals.
- The physical networking fundamentals.
- TCP/IP prime.
- Connecting networks, internet and WAN technologies.
- Wireless LAN.
- Services principles.
- Defending the network.
- Network planning.

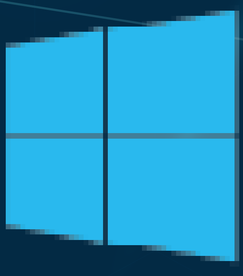


Module 3 :-

Windows Server

- Understanding of Microsoft windows.
- Different versions of windows.
- Windows vs Linux vs Mac.
- Setting up a lab.
- Creating virtual machine.
- Windows installation and configuration.
- Downloading windows server 2016.
- Installing windows server 2016.
- Access system file system.
- System administrator.





Windows

Module 4 :-

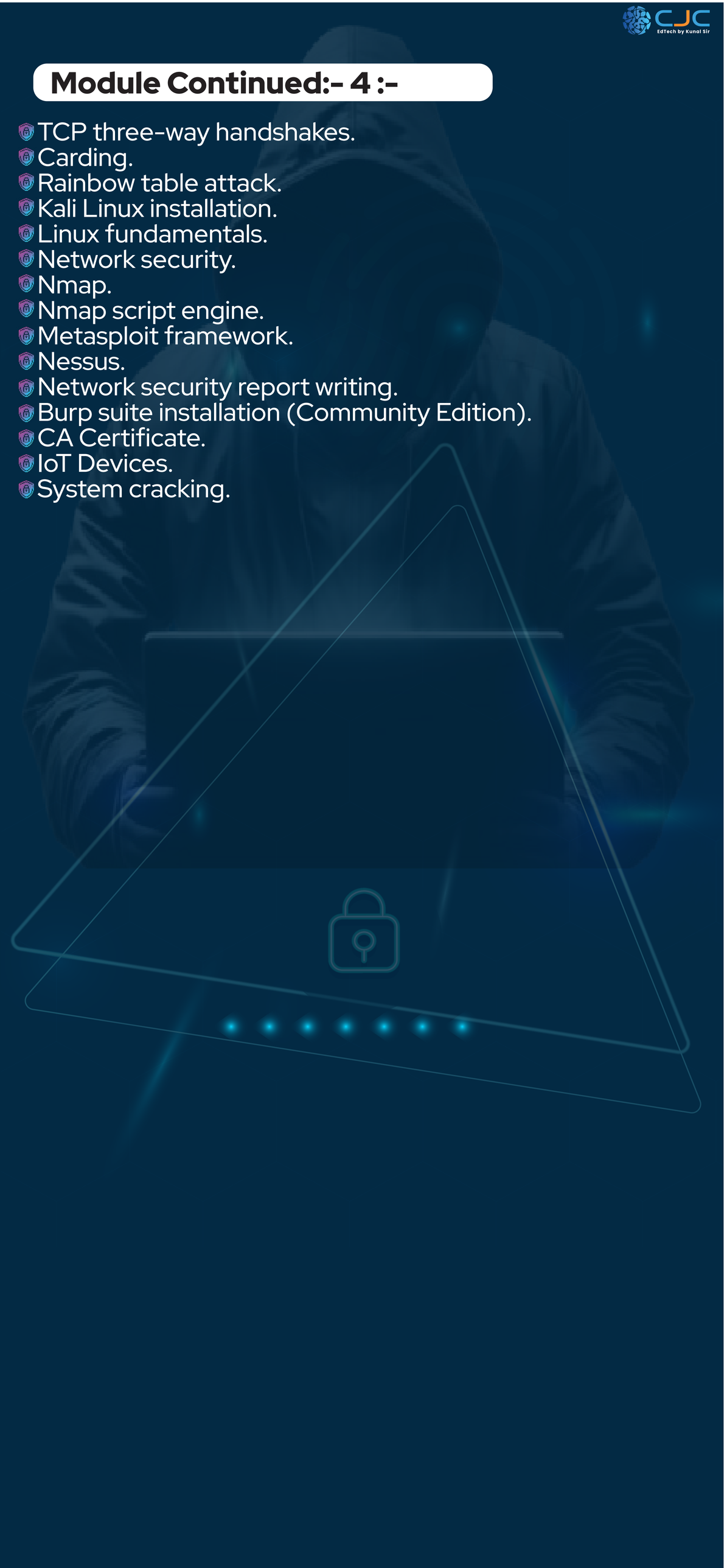
Ethical hacking

- What is hacking?
- Types of hacking.
- CIA triad.
- Malware (Virus, Worm, Trojan, Spyware, Ransomware).
- Phishing.
- Social engineering.
- DoS and DDoS.
- Man-In-The-Middle attack (MITM).
- Cracking.
- Teams in cyber security.
- IDS and IPS.
- False positive and False negative.
- Cryptography.
- What is VPN?
- Concept of zero-day vulnerability.
- List privilege in cyber security.
- What is SOC and how does it function in cyber security.
- framework.
- Difference between VA and PT.
- Risk management.
- Information gathering (Reconnaissance).
- Types of testing in cyber security.
- 8 types of cookie attributes.
- Types of errors on internet (status code).
- Two factor authentication and multi factor authentication.



Module Continued:- 4 :-

- TCP three-way handshakes.
- Carding.
- Rainbow table attack.
- Kali Linux installation.
- Linux fundamentals.
- Network security.
- Nmap.
- Nmap script engine.
- Metasploit framework.
- Nessus.
- Network security report writing.
- Burp suite installation (Community Edition).
- CA Certificate.
- IoT Devices.
- System cracking.



Module 5 :-

Tools Installation.

- Foxy proxy installation.
- Burp suite installation (Professional Edition).
- Wapplyzer.
- Nikto.
- JSQL.
- Wireshark.



Module 6 :-

VAPT.

- Business and technical logistics of pen testing.
- Information gathering – reconnaissance – passive only.
- Detecting live system.
- Banner grabbing.
- Enumeration.
- Vulnerability assessment using automated tools.
- Advance assessment and exploration technique.
- Network and sniffing.
- Hacking web technologies.
- Live attacks.

- 1)SPF (Sender Policy Framework).
  2)HTML Injection.
  3)Cross Site Scripting.
  - i. Reflected XSS.
  - ii. Stored XSS.
  - iii. DOM XSS.





Module Continued 6 :-

- Click jacking.
- Clear text password submission.
- Sensitive data exposure.
- Missing HSTS certificate.
- SSL and TLS.
- Technology version disclosure.
- Technology version not updated.
- Software version disclosure.
- Software version not updated.
- Server version disclosure.
- Server version not updated.
- SQL Injection.
    - i. Manual.
    - ii. Automated.
        1. JSQL.
        2. Sqlmap.
- Cross Site Request Forgery (CSRF).
- CSRF through XSS.
- CSRF through HTML Injection.
- CSRF through SQL injection.



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