

Cryptography: hashing of connections

VPN: virtual private network only you and the server can access using cryptography

Tunnel: like VPN but between two devices only no one outside can access

Malwares: harmful softwares with different types and examples but most lead to stealing data

Other to cyber security topics:

- 1- digital forensics: analyzing digital evidence from cyber crimes or data breaches
- 2- security information and event management: real-time analysis for detecting threats and responding to them
- 3- cloud security: securing cloud infrastructure including identity management and data privacy
- 4- Incident response and data recovery: detecting, responding and recovering from cyber attacks
- 5- Threat intelligence: gathering and analyzing data about current and emerging threats to improve defence
- 6- Security of IOT: protecting smart devices from being exploited
- 7- Mobile security: techniques to secure smart phones or tablets from SMS phishing and app-based threat also OS exploits
- 8- Operational technology security: securing industrial systems like SCADA and ICS used in manufacturing, energy and critical infrastructure
- 9- Security Compliances & Regulations: understanding laws and frameworks like GDPR (general data protection regulation)
- 10- Supply Chain Attacks: understanding how attackers compromise trusted vendors or software updates to reach targets