Ethical Hacking & Cyber Security - Topics

# Cyber Security & Ethical Hacking

* Need of Cyber Security
* Ethical Hacking
* Types of Hackers
* Penetration Testing
* Footprinting
* Footprinting Techniques

# Cryptography

* Types of Cryptography
* Symmetric / Asymmetric
* Digital Signatures
* Hash Functions

# Computer Networks & Security

* Computer Network Architecture; Layered Architecture
* OSI Model
* TCP / IP Model
* Common Network Threats

# Application & Web Security

* Web Server Architecture & Attacks
* Web Client Architecture & Attacks
* Counter Measures & Patch Management

# Identity & Access Management (IdAM)

* Authentication
* Authorization
* IdAM
* Password Protection
* Identity Threats

# Vulnerability Analysis (VA) & System Hacking

* VA Types
* VA Lifecycle
* VA Tools
* Vulnerability Scoring System
* VA Report
* System Hacking
* Password Cracking
* Privilege Escalation, Hiding Files, Clearing Logs

# Sniffing & SQL Injection

* Malware & Its Types
* Sniffing Attacks & Its Types
* SQL Injection & Its Types

# Denial of Service (DoS) & Session Hijacking

* DoS Attacks & Symptoms
* DoS Detection
* System Hijacking
* Session / Application Level Hijacking
* Intrusion Detection Systems (IDS) & Types
* Firewalls & Types
* Honeypots
* Evading IDS