**Cyber Security**

**Month 1: Fundamentals and Ethical Hacking**

Week 1: Introduction to Cyber Security

* Overview of Cyber Security
* Importance of Cyber Security in modern society

Week 2-3: Networking Basics and Operating System Security

* Basics of networking and the OSI model
* TCP/IP fundamentals
* Operating system security (Windows and Linux)

Week 4-5: Introduction to Ethical Hacking

* Understanding ethical hacking
* Overview of penetration testing
* Information gathering and footprinting

Week 6: Scanning and Enumeration

* Network scanning techniques
* Enumerating systems and services

**Month 2: Network Security and Web Application Security**

Week 1-2: Firewalls, IDS, and VPNs

* Configuring firewalls
* Implementing intrusion detection and prevention systems
* Introduction to Virtual Private Networks (VPNs)

Week 3-4: Wireless Security and Web Application Security

* Securing wireless networks
* Wi-Fi vulnerabilities and countermeasures
* Common web application vulnerabilities

Week 5-6: Incident Response and Legal Aspects

* Preparing for and responding to security incidents
* Legal and ethical aspects of Cyber Security
* Cybersecurity laws and regulations