Cyber Security tools and Technologies

Mid term syllabus

Book: Computer Security Fundamentals

Chapter 1 (Introduction to Computer Security)

- Introduction
- How Seriously Should You Take Threats to Network Security?
- Identifying Types of Threats (seven broad classes)
- Assessing the Likelihood of an Attack on Your Network
- Basic Security Terminology
- Concepts and Approaches
- How Do Legal Issues Impact Network Security? (excluded)

Chapter 2 (Networks and the Internet)

- 1. Introduction
- 2. Network Basics
- 3. How the Internet Works
- 4. History of the Internet (excluded)
- 5. Basic Network Utilities
- 6. Other Network Devices
- 7. Advanced Network Communication Topics

Chapter 5 (Malware)

- 1. Introduction
- 2. VIRUSES
- 3. TROJAN HORSES
- 4. The Buffer-Overflow Attack (excluded)
- 5. SPYWARE
- 6. Other Forms of Malware
- 7. Detecting and Eliminating Viruses and Spyware

Forum: TryHackMe

Nmap

 Nmap Live Host Discovery room: all tasks and related concepts

Pre Security

- Module 1: Introduction To Cyber Security
- 1. Intro to Offensive Security.
- 2. Intro to Defensive Security.
- 3. Careers in Cyber

Module 2: Network Fundamentals

- 1. What's networking?
- 2. Intro to LAN
- 3. OSI Model
- 4. Packets and Frames

Pre Security

- Module 3: How the Web Works
- DNS in detail
- 2. HTTP in detail
- 3. How websites work

Module 4: Linux Fundamentals

1. Linux Fundamentals Part 1

Other Material

Slides

- Slides shared on GCR
- Research article titled (shared on GCR)
 - From information security to cyber security