

# 12-Month Cyber Security Course Outline

## Official Course Roadmap

🌐 Website: [Ts-Developers.com](https://Ts-Developers.com)

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### ◆ ◆ **Module 1: Fundamentals & Networking (Months 1-2)**

- Introduction to Cyber Security & Career Path
- Basic Networking (TCP/IP, OSI Model)
- Linux Fundamentals & Command Line
- Security Basics (CIA Triad, Threats & Attacks)
- Mini Labs: Network Setup & Basic Security Configurations

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### ◆ **Module 2: Operating System Security (Month 3)**

- Windows Security & User Management
- Linux Hardening & Permissions
- User Authentication & Access Control
- System Vulnerabilities & Patching
- Practical: Securing Local Systems

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### ◆ **Module 3: Network Security (Months 4-5)**

- Firewalls & IDS/IPS Concepts
- Network Monitoring using Wireshark
- VPN & Secure Communication
- Network Attacks & Defense Techniques
- Practical Labs: Traffic Analysis & Attack Detection

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### ◆ **Module 4: Ethical Hacking (Months 6-7)**

- Footprinting & Reconnaissance
- Scanning & Enumeration Techniques
- Exploitation & Gaining Access
- Metasploit Framework
- Vulnerability Assessment & Reporting
- Live Labs: Simulated Hacking Environment

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◆ **Module 5: Web Application Security (Month 8)**

- Web Application Attacks (SQL Injection, XSS, CSRF)
- Burp Suite & Testing Tools
- Secure Coding Principles
- Web Security Testing & Reporting
- Project: Secure a Web Application

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◆ **Module 6: Digital Forensics (Month 9)**

- Evidence Collection Techniques
- Disk & Memory Analysis
- Incident Investigation Process
- Reporting & Documentation
- Practical: Forensic Case Study

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◆ **Module 7: Cloud Security (Month 10)**

- Cloud Computing Basics (AWS Concepts)
- Cloud Threats & Vulnerabilities
- Securing Cloud Infrastructure
- Identity & Access Management (IAM)
- Practical: Secure Cloud Environment Setup

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◆ **Module 8: Advanced Security & Projects (Month 11)**

- Penetration Testing Projects
- Red Team vs Blue Team Concepts
- Real-world Cyber Attack Case Studies
- Security Auditing & Risk Assessment
- Project: Full Security Assessment

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◆ **Module 9: Final Project & Career Development (Month 12)**

- Final Cyber Security Capstone Project
- Certification Preparation (CEH, Security+)
- Freelancing & Bug Bounty Platforms
- CV Building & Interview Preparation
- Final Presentation & Certification