RAISE TECH

CYBER SECURITY

EDUCATION FOR A SAFER DIGITAL WORLD

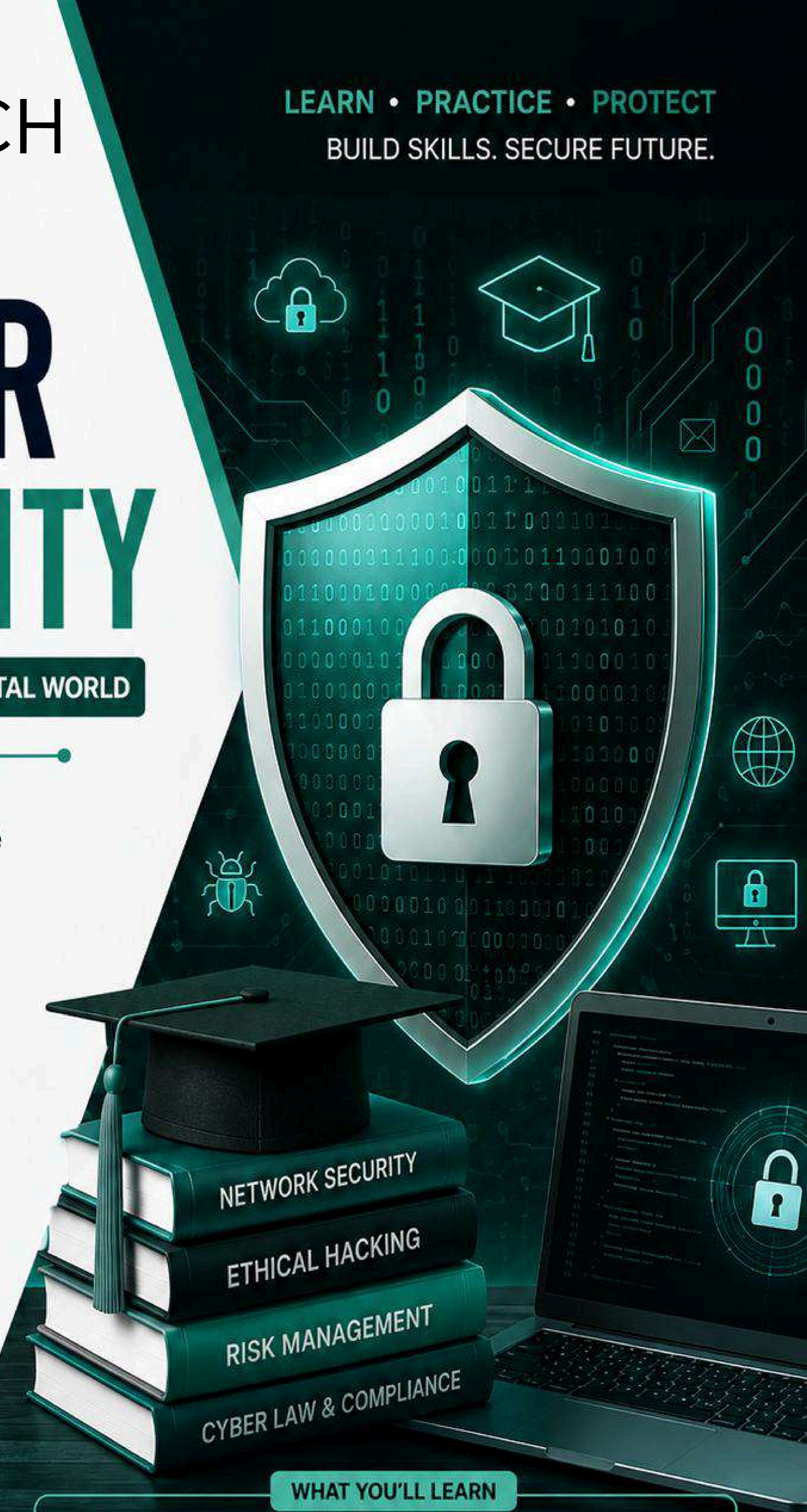
Learn the skills to identify threats, protect systems and build a secure tomorrow.

LEARN
Understand core concepts, tools and real-world cyber threats.

PRACTICE
Hands-on labs and simulations to build practical skills.

PROTECT
Apply knowledge to secure systems, data and networks.

GROW
Get certified and advance your career in cyber security.



WHAT YOU'LL LEARN

Threat Analysis | Network Security | Ethical Hacking | Incident Response | Security Tools

YOUR JOURNEY TO BECOME A CYBER SECURITY EXPERT

96422 10326

#304, 3rd floor, Nilagiri Block
Beside Metro station, Ameerpet, Hyderabad.

RAISETECH

CONTENT

- Network Security
- Endpoint Security
- Application Security
- Identity & Access Management (IAM)
- Cloud Security
- Security Operations Center (SOC)
- Mobile Security
- Data Security
- Penetration Testing
- Digital Forensics
- Malware Analysis
- Threat Intelligence & Threat Hunting

LAB ENVIRONMENTS

Kali Linux, Parrot OS, Windows, wazuh, Splunk, tryhackme, and various cyber security tools for hands-on experience.

NOTE

All modules include lab-based practical's and live demonstrations of attack and defense techniques.

FUNDAMENTALS OF CYBER SECURITY

Introduction to Cyber Security

- Evolution of Cyber security
- Cyber security & Situational Awareness
- The Cyber security Skills Gap
- Difference between Information Security & Cyber security
- Cyber security Objectives
- Cyber security Roles and Career Paths

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UNDERSTANDING DEVICES AND INFRASTRUCTURE

- Infrastructure Terminology
- Security-Focused Network Design
- Network Topology & Architecture
- OSI Layers & TCP/IP Model
- IPv4 & IPv6 Addressing
- Essential Ports & Protocols
- Firewalls & Intrusion Prevention Systems
- VPNs and VPN Concentrators
- Intrusion Detection & Prevention Systems
- Proxy Servers & Load Balancers
- Network Access Control (NAC) & Zero Trust Architecture
- Secure Mail Gateways

ETHICAL HACKING & PENETRATION TESTING

- Introduction to Ethical Hacking
- Types of Hackers and Their Motivations
- Ethical Hacking vs. Malicious Hacking
- Phases of Ethical Hacking
- Web Application Penetration Testing (OWASP Top 10)
- Network and Wireless Penetration Testing
- Exploiting Vulnerabilities and Privilege Escalation
- Post-Exploitation Techniques
- Penetration Testing Methodologies

THREATS, ATTACKS, AND VULNERABILITIES

- Understanding Cyber Threat Actors
- Types of Malware (Viruses, Trojans, Ransomware, etc.)
- Zero-Day Exploits and Advanced Persistent Threats (APT)
- Denial-of-Service (DoS) and Distributed DoS (DDoS) Attacks
- Man-in-the-Middle (MitM) and Phishing Attacks
- ARP Poisoning & MAC/IP Spoofing
- Credential Harvesting and Social Engineering Techniques

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Course Assessments

- Network Fundamentals Quiz – Covering OSI Model, TCP/IP, IP addressing, and protocols.
- Cyber Security Fundamentals – CIA, Phases of Hacking, Types of Hackers
- Ethical Hacking Practical – Conduct a basic vulnerability scan and document findings.
- Incident Handling Simulation – Analyze a mock cyber incident and respond accordingly.
- Phishing & Malware Analysis – Investigate a phishing email and extract indicators of compromise.
- Threat Hunting Exercise – Use MITRE ATT&CK framework to detect adversarial tactics.
- Security Operations Center (SOC) Assessment – Evaluate SOC operations.
- SIEM analysis, and log correlation.
- Final Cyber Security Assessment – A comprehensive test covering all course modules

Daily Assignments

- All daily assignments will be aligned with the topics discussed in class. Need to be documented.

Security Operations Center (SOC) Fundamentals

- What is a SOC and how it operates?
- SOC Teams & Responsibilities (Tiers 1, 2, 3)
- Security Information and Event Management (SIEM) Tools
- Log Analysis and Threat Detection
- Incident Response Lifecycle
- SOC Metrics & Key Performance Indicators (KPIs)

Incident Handling & Cyber Defense

- Cyber Kill Chain & MITRE ATT&CK Framework
- Incident Response Frameworks (NIST, SANS)
- Threat Intelligence Gathering & Analysis
- Malware Sandboxing & Reverse Engineering
- Security Analytics & Threat Hunting
- Active Defense Strategies

ETHICAL HACKING & PENETRATION TESTING

- Forensic Data Acquisition & Imaging
- Memory & Disk Analysis Techniques
- Network Traffic Analysis for Threat Hunting
- Email Header Analysis for Phishing Detection
- Log Analysis & Correlation Techniques
- Incident Reporting & Documentation Best Practices

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Career Opportunities after this Course

- SOC Analyst (L1/L2)
- Threat Intelligence Analyst
- Incident Responder
- Cyber Security Analyst
- SIEM Engineer
- SOC Analyst (Tier 1, Tier 2, Tier 3)
- Threat Hunter
- Security Operations Engineer
- Incident Responder
- Cyber Threat Intelligence Analyst
- Network Security Engineer
- Firewall & Perimeter Security Administrator
- SOC Analyst (Network Security Focus)
- Threat Detection Engineer
- Cloud Network Security Engineer
- Penetration Tester (Web, Network, Wireless, Cloud)
- Red Team Operator / Adversary Emulation Specialist
- Bug Bounty Hunter & Security Researcher
- Offensive Security Consultant
- Exploit Developer & Malware Analyst
- Career Opportunities after this Course
- Cloud Security Architect
- DevSecOps Engineer
- Container Security Specialist
- Kubernetes Security Engineer
- Cloud Compliance & Risk Analyst

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RAISE TECH

CYBER SECURITY

100% PLACEMENT ASSISTANCE

EDUCATION FOR A SAFER DIGITAL WORLD

Gain the skills. Get certified. Build a secure future.
Our programs empower you with practical knowledge to protect systems, data and digital assets.

- Network Security
- Ethical Hacking
- Cyber Law & Compliance
- Malware Analysis
- Cloud Security
- Incident Response & Forensics

ADDITIONAL SKILLS YOU WILL LEARN

THREAT ANALYSIS
Identify, evaluate and respond to modern cyber threats.

NETWORK DEFENSE
Secure networks and infrastructure from attacks.

RISK MANAGEMENT
Assess risks and implement effective security strategies.

SECURITY TOOLS
Hands-on with industry leading security tools.

AI IN CYBER SECURITY
Use AI technologies to detect and prevent threats.

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