

# **Emerging Technologies**

## **Certified Network Security Professional (CNSP) Program**

### **Curriculum**

#### **Program Outline :**

##### **Module 1:Core Security Technologies**

- 1. Introduction to Network Security**
  - Core principles, tools, and industry applications.
- 2. Firewall Management**
  - Configuring and managing firewalls.
- 3. Email and Web Security**
  - Securing email and web applications.
- 4. VPN Management**
  - Setting up and managing VPNs.

##### **Module 2: Advanced Security Tools**

- 5. Advanced Network Monitoring**
  - Monitoring and analyzing network traffic.
- 6. Incident Response**
  - Responding to security incidents.
- 7. Security Assessment and Testing**
  - Evaluating security measures.
- 8. Security Policies and Governance**

- Developing and implementing security policies.

### **Module 3: Practical Applications**

#### **9. Practical Security Projects**

- Developing and implementing security projects.

#### **10. Security Operations Management**

- Managing security operations.

#### **11. Data Analysis and Visualization**

- Analyzing security data and visualizing results.

#### **12. Business Intelligence Applications**

- Using data for security decision making.

### **Module 4: Capstone Project**

#### **13. Integration of Learned Skills**

- Apply tools and techniques to real-world security problems.

#### **14. Advanced Security Systems**

- Developing complex security systems.

#### **15. Cloud Security Management**

- Securing cloud-based platforms.

#### **16. AI for Security**

- Implementing AI solutions in security.

### **Elective Modules**

#### **17. Data Ethics and Privacy**

- Ethical considerations, privacy laws, compliance strategies.

#### **18. Predictive Analytics with Security Management**

- Building and validating predictive models.

#### **19. AI for Security Management**

- Implementing AI solutions in security.

#### **20. Advanced Data Warehousing Techniques**

- Optimizing data warehousing solutions.

#### **21. Data-Driven Security Decision Making**

- Using data to inform and drive security strategies.

#### **22. Cloud Security Solutions**

- Deploying security management systems on cloud platforms.

#### **23. Security Project Management**

- Leading security projects, ensuring successful delivery.

#### **24. Big Data Security**

- Securing data in big data environments.

#### **25. IoT Security**

- Securing IoT devices and systems.

#### **Websites:**

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>