

# Certificate Course on Cyber Security and Ethical Hacking (5 Days)

## Objective

- To build practical knowledge of Cyber Security and Ethical Hacking among Law Enforcement Officials.
- To empower participants with the skills required to detect, investigate, and prevent cyber crime.
- To strengthen the capability of LEAs to deal with emerging cyber threats.

## Intake

- 20 participants per batch (Constable to Sub-Inspector ranks).
- Nomination to be made by respective Law Enforcement Agencies (LEAs).

## Benefits to Participants

- Exposure to real-world Cyber Security techniques.
- Training in Ethical Hacking.
- Certification by NIELIT (Ministry of Electronics and Information Technology, Govt. of India).
- Access to labs, tools, and hands-on case studies.
- Enhanced operational readiness in Cyber Security prevention techniques.

## Facilities

- Residential training at NIELIT Chennai campus (lodging included).
- Access to dedicated computer labs.
- Training kit, study material, stationery and group photograph.
- Expert sessions by internal and external faculties with LEA experience.

**Venue : NIELIT Chennai, No.25, ISTE Complex, Opp: Anna Centenary Library, Gandhi Mandabam Road, Kotturpuram, Chennai - 600025.**

# Day-Wise Schedule

## **Day 1: Foundations of Computer & Cyber Security**

- Introduction to Computer
- Networking Fundamentals
- Cyber Security & Cyber Attacks Techniques
- Cryptography, Hashing, Encryption, Digital Signature, File / Disk Encryption

## **Day 2: Ethical Hacking Basics**

- Ethical Hacking, Foot-printing, Reconnaissance, Enumeration, Vulnerability Analysis
- Search Engine, OSINT & Google Dorking
- Password Attacks, Brute Force, Steganography, Wireless Network & Cyber Crime

## **Day 3: Web, Email & Social Media Security**

- Web Application Attacks and its Security
- Email Security, Email Header Analysis, Phishing Attack
- Social Media Security Options Related Crime, LEA Platforms on Social Media

## **Day 4: OS, Mobile & Cloud Security**

- Mobile & Android Security, Hardening
- Hardening of Windows OS
- Cloud Computing & its Security, SIEM

**Scan to Apply:**

<https://nva.nielit.gov.in/i4c/>



## **Day 5: Legal Ecosystem & Case Studies**

- Cyber Laws IP & DPDP Act
- Incident Handling, Reports & LEA Compliance
- Real World Case Studies
- Valedictory Ceremony

## **Learning Outcomes:**

- Understand cybersecurity techniques and hacker methodologies.
- Detect and investigate cybercrimes.
- Apply preventive and protective measures.
- Draft incident reports & compliance certificates.

## **Sponsored By**

**National Cybercrime Training Center [NCTC] Under Indian Cybercrime Coordination Center (I4C), Ministry of Home Affairs. Govt of India.**