

## Certificate Course in Information Security & Cyber Law

**Objective of the Course:**

Students will learn the basics of Information Security, Anatomy of information Security Attacks their countermeasures and Fundamentals of Cyber Law through Virtual Training Environment.

**Learning Outcomes:**

The participants will be able to design countermeasures against common Information Security Attacks, they will be able to implement operating system hardening, Configure Firewall &IDS and Evaluate, implement Information security in a Network Environment.

**Duration of the Course (in hours)**      80 hrs

**Appr. Fees (INR):**                      Rs.5000/-

**Minimum Eligibility Criteria and pre-requisites, if any**                      10<sup>th</sup> pass with basic computer & networking knowledge.

**Outline of Course**

S. No	Topic	Minimum No. of Hours
1	Introduction to Information Security	2 hrs
2	Information Gathering & Countermeasures	5hrs
3	Sniffing & Countermeasures	5hrs
4	Brute Force Attack & Countermeasures	2 hrs
5	IP Spoofing with DOS & Countermeasures	5hrs
6	Trojan, Backdoor, Virus & Countermeasures	5 hrs
7	Bypassing Proxy & Countermeasures	2hrs
8	SQL Injection Attack & Countermeasures	3hrs
9	Code Injection & Countermeasures	5hrs
10	E-mail Spoofing, Phishing & Countermeasures	2hrs
11	Hacking Wireless Network & Countermeasures	5hrs
12	E-mail Security	5hrs
13	Network Traffic Analysis	2hrs
14	Network Traffic Encryption	7hrs
15	Installing & Configuring Intrusion Detection System	3hrs
16	Configuring Host Based Firewall	2hrs
17	Host System Hardening (Windows)	7hrs
18	Host System Hardening (Linux)	3hrs
19	Evaluating Security	8 hrs
20	Introduction to IT Act 2000/2008	2 hrs
<b>Theory / Lecture Hours:</b>		60 hrs
<b>Practical / Tutorial / Lecture Hours:</b>		20 hrs
<b>Total Hours:</b>		80 hrs.

## Short Term Courses – NIELIT

**Books recommended  
for reference and  
reading:**

Course material Developed at NIELIT Gorakhpur

**Group Code:** ISCF

**Group Name:** Information Security & Cyber Forensic

**Course Code:** CT01

**Course Name:** Certificate Course in Information Security & Cyber Law