

Course in Cyber Security

40 Days / 120 Hrs. (2 Hrs. per day)
Medium of Instruction: (English)

Objective

This is a practical oriented blended course which provides participants with the information and lab experience necessary to evolve as a professional using virtual lab. This course covers core Linux and basic Cyber security concepts and advanced server setup. It provides practical approach as well as in-depth knowledge on Security related environment and packages in virtual environment.

Eligibility

- B.Sc. (CS) / BCA / B.E / B. Tech in (CSE/IT/ECE)

Prerequisite

- ✓ Candidate must have any Computer/ Laptop compactable with any recent browser to access NIELIT Virtual Lab.
- ✓ Internet connection with good speed (*preferably 4Mbps or higher*)

Course Fees

Rs. 2500/- + GST

Certificate

Certificate will be provided to the participants after the online test, conducted at the end of the course.

Methodology

- ✓ Instructor-led live classes with Recording facilities
- ✓ Instructor-led hands-on lab sessions
- ✓ Cloud based Virtual lab Access 24x7
- ✓ Content Access through e-learning portal
- ✓ Assessment and Certification

Intended Users

The users can be people enthusiastic to jump into Cyber Security, as the course is designed to be a ground-up approach where Cyber Security is taught from scratch. Anyone who wants to get started in Cyber Security will go for this course since we are in digital world Cyber Security knowledge should be available for everyone.

Course Content

Course in Cyber Security

- Introduction to Communication Protocols and Analysis
- Introduction to Wireshark Software and usage
- Analyzing TCP/IP Protocols using Wireshark
- DNS and UDP Analysis
- ICMP and IP Analysis
- DHCP/Bootp Analysis
- HTTP & TCP Analysis
- Introduction to Linux Usage Basic & Browsing Filesystem
- Users, Group and Permissions
- Basic System Configuration Tools
- Finding and Processing Files
- Investigating and Managing Processes
- Essential System Administration Tools
- System Initialization & Package Management
- Linux Services & Network Configuration
- Configuring DNS Server
- Configuring Web Server
- Configuring File Server
- Introduction to Information System Security
- Cryptographic Fundamentals and algorithm analysis
- Overview of Security Threat and Attacks
- Information Gathering
- Sniffing
- MITM Attack
- Brute Force Attack
- Secure DNS & Secure Web Server
- Firewall using iptables
- Security Monitoring using Nagios & Security Auditing using OpenVAS
- System Hardening & Introduction to Cyber Law

Faculty

Dr. Munivel E	Sh. Mohamed Affan R	Sh. Yatish Kumar P
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