

National Institute of Electronics & Information Technology

Gorakhpur – Extension Centre Lucknow

(Under Ministry of Electronics and Information Technology, Govt. of India) MMMUT Campus, Deoria Road, Gorakhpur-273010 https://www.nielit.gov.in/gorakhpur/index.php



Ethical Hacking & Information Security

Ethical Hacking and Information Security 90 Hours Online Course

urity 06 Weeks. (3 Hrs. per day) Timing: - 2:00 PM to 05:00 PM Medium of Instruction: Bilingual (English& Hindi)



This course introduces the concepts of Ethical Hacking and gives the learner the opportunity to learn about different tools and techniques used in Ethical hacking andsecurity system as well as to identify and analyze the stages an ethical hacker requires to take in order to compromise a target system alongwith applying preventive, corrective and protective measures to safeguard the system. After the completion of this course, candidate would be able to identify tools and techniques to carry out a penetration testing and critically evaluate security techniques used to protect system and user data and it will also help to demonstrate systematic understanding of the concepts of security at the level of policy and strategy in a computer system

B.E*/B.Tech.* / B.Sc. - M.Sc. / Graduate / Diploma in any stream with Basic Knowledge of Programming or B.C.A*. / M.C.A. pursuing or qualified or NIELIT O-Level / NIELIT A-Level Qualified or 10+2 qualified with knowledge of programming. (Note: *pursuing candidate can also apply)

Eligibility

Course Fees

Methodology

- Prerequisites
- Candidate must have latest computer/laptop with preferably 8 GB RAM or higher

Internet connection with good speed (preferably 4 Mbps or higher).

Rs. 2700/- incl. GST & all other charges.

Certificate

Digital Certificate will be provided to the participants, based on minimum 75% attendance and on performance (minimum 50% marks) in the online assessment, conducted at the end of the course.

- ✓ Instructor-led live classes.
- ✓ Instructor-led hands-on lab sessions using Virtual and Portable lab.
- ✓ Content Access through e-Learning portal.
- ✓ Assessment and Certification

Step-1: Read the course structure & course requirements carefully.

How to Apply

Step-2: Visit the Registration portal <u>https://regn.nielitvte.edu.in</u> and browse the course under Online Course Section and click on apply button.

Step-3: Create login credentials and fill up all the details, see the preview and submit the form.

Step-4: Login with your credentials to verify the mobile number, email ID and then upload the documents, Lock the profile and Pay the Fees online, using ATM-Debit Card / Credit Card / Internet Banking / UPI etc.



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Unit	Торіс	Unit	Topi c	Unit	Торіс
Unit #01	NETWORK PRIMER -I	Unit #02	NETWORK PRIMER –II	Unit #03	NETWORK PRIMER –III
Unit #04	EXPLORING NMAP WIRESHARK ,CRYPTOGRAPHY	Unit #05	INFORMATION GATHERING AND COUNTERMEASURES	Unit #06	SNIFFING, ARP CACHE POISONING , MITM ATTACKS AND OUNTERMEASURES
Unit #07	PASSWORD CRACKING & COUNTERMEASURES	Unit #08	IP SPOOFING, DENIAL OF SERVICE ANDCOUNTERMEASURES	Unit #09	TROJAN, BACKDOOR, VIRUS AND COUNTERMEASURES
Unit #10	STEGANOGRAPHY	Unit #11	E-MAIL SPOOFING, PHISHING AND COUNTERMEASURES	Unit #12	SECURING E-MAIL COMMUNICATION USING PGP
Unit #13a	WEB APPLICATION PRIMER	Unit #13b	WEB APPLICATION SECURITY –I	Unit #14	WEB APPLICATION SECURITY –II
Unit #15	WEB APPLICATION SECURITY -III	Unit #16	NETWORK TRAFFIC ENCRYPTIONUSING IPSec	Unit #17	INTRUSION DETECTION SYSTEMUSING SNORT
Unit #18	NETWORK SECURITY-I	Unit #19	NETWORK SECURITY-II	Unit #20	PENETRATION TESTING USINGMETASPLOIT
Unit #21	DIGITAL FORENSICS	Unit #22	MALWARE ANALYSIS	Unit #23	SIEM
Unit #24	LOG ANALYSIS	Unit #25	CYBER LAW		

Course Coordinator

Sh. Abhinav Mishra (Scientist D), NIELIT Gorakhpur, Email: abhinav@nielit.gov.in Mobile Number: 8317093868 Sh. Ajay Verme, TO NIELIT Gorakhpur, Email: <u>ajay.verma@nielit.gov.in</u> Mobile Number: 9140970443





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Course Contents

Unit	Detailed Conceptual Topic	Hands On lab
Unit1	 NETWORK PRIMER -I What is Networking, Benefits of Network, Components Of Computer Network, Client/Server Model, Types of Servers, Role of A Network Administrator, Internetwork, Network Segmentation, LAN traffic congestion, Collision Domains, Broadcast Domain, Transmission modes, Ethernet, CSMA/CD (Carrier Sense Multiple Access with Collision Detection). Classification Of Transmission Media, Coaxial Cable, Twisted-pair cables, STP and UTP cables, Categories of Twisted cable, Cabling types, UTP Categories, Exploring UTP, Categories of Ethernet Cable, Fiber Optics Cable, OFC Connectors, Types of Fiber Optics Cable, Single vs Multi-Mode Fiber, Ethernet Cabling, Straight-Through Cable, Crossover Cable, Rolled over Cable, Causes of Transmission Impairment. Repeaters, Switch, MAC-Port Binding, Repeater, Hub,Bridge, Switch, Router, L3 Switch OSI Reference Model, Layers of the OSI Reference Model, Application Layer (Layer 7), Presentation Layer (Layer 6), Session Layer (Layer 5), Transport Layer (Layer 4), TCP, UDP, Reliable Communication with TCP, 3-Way Handshake, The TCP Sliding Window, Port Numbers, Common TCP& UDP Ports, Network Layer (Layer 3), Data Link Layer (Layer 2), Physical Layer(Layer 1), OSI Upper Layer & Bottom Layer, OSI Layer Functions OSI PDU Term, Maximum transmission unit Checking with MTU, Changing the MTU size in Windows, Path MTU Discovery (PMTUD),Maximum Segment Size (MSS), Devices at OSI layer 	 Study of Ethernet Cabling: - Straight-Through Cable, Crossover Cable, Rolled Cable. Verifying MTU of Network Changing the MTU size in OS.
	TCP/IP, The roots of the internet, Some important TCP/IP milestones, MAC Address, Vendor / Ethernet/ Bluetooth MAC Address Lookup, MAC Address Format, IP Address, Physical Vs Logical Address, ARP Protocol	
	TCP Header format, TCP Flags, UDP Header Format, IPv4 Header, Common Protocol Number, ICMP Protocol, Ethernet Frame Format, IP Address, Classes, IP Addressing Scheme	
Unit2	NETWORK PRIMER -II Subnetting Basics, How to Create Subnets, Subnet Masks, Classless Inter-Domain Routing (CIDR), Subnetting Class C Addresses, Subnetting Class B Addresses, Physical Vs Logical Address, Public & Private IP Addresses	 Practice on IP Subnetting on CLASS A,B & C networks.
Unit3	NETWORK PRIMER –III IANA, Regional Internet Registry (RIR), local Internet registry (LIR), National Internet Registry (NIR), AfriNIC, APNIC, ARIN, LACNIC, RIPE NCC, Indian Registry for Internet Names and Numbers (IRINN), Internet Exchange Point, IANA Root Zone Database, IANA Number Resources, Regional Internet Registry (RIR),Internet, Network Registrar for .EDU.IN, .RES.IN, .AC.IN, .GOV.IN, List of Root Servers, Internet in India , SEA-ME-WE3,TCP/IP Troubleshooting utilities, Troubleshooting IP Addressing, hostname, ipconfig/ ifconfig / winipcfg, arp, ICMP Protocol, ICMP Protocol -Type, Ping, TTL, Default TTL Values, Changing the TTL On Popular Operating Systems, Ping Command Error Messages ,tracert/traceroute, Pathping, route, netstat, Possible Session States in netstat output,getmac,nslookup, DNS Resource Records, Troubleshooting IP Addressing	 Hands-on lab on Whois Domain Lookup, Whois IP lookup. Hands-on lab on Nslookup ,TCP/IP Utilities, hostname, Arp, Ping, tracert / traceroute, Netstat, Getmac, Nslookup
Unit4	EXPLORING NMAP AND WIRESHARK Introduction to NMAP, Exploring Scanning using NMAP, NMAP Advanced Scanning Techniques, Introduction to Wireshark, Functionality of Wireshark, UI of Wireshark, Wireshark Capture Mode, Capturing Packets, Wireshark Filters, Detecting Network Attacks with Wireshark, Detection of host discovery (recon), Detection of network port scanning, Detection of wireless network attacks EXPLORING KALI LINUX What is Kali Linux, Kali Linux Tools	 Hands-on lab on NMAP and Wireshark
Unit5	CRYPTOGRAPHY Introduction to cryptography, Conventional Encryption: Conventional encryption model - classical encryption techniques, Secret Key Cryptography, Public Key Cryptography Hash, MD5 message digest algorithm - Secure hash algorithm (SHA) ,Digital Signatures: Digital, Signatures - authentication protocols - digital signature standards (DSS)	 Hands on lab on Cryptography using Online Tools
Unit6	INFORMATION GATHERING AND COUNTERMEASURES Introduction to Ethical Hacking, What is hacking?, Definition of Hacking, Types of Hackers Introduction to Information Security, CIA Triad, Services & Techniques, Actives, Passive Threats and Exploit, etc. Introduction to Information Gathering, Phases of Information Gathering, Reconnaissance, Banner Grabbing, Web Ripping, Website at Offline Mode, Downloading Server Side Code, Foot Printing, Name Space Lookup,Trace Routing Techniques, Whois Lookup Query, Fingerprinting	 Hands-on lab on Information Gathering , NMAP Scanning, Whois, nslookup and its countermeasures



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	record, sub-domains, Operating system, Finding login pages, Finding out sensitive, directory, Find out any known vulnerability	
	Network Scanning, Network Scanning Techniques, and Scanning countermeasures. What is Open-source intelligence (OSINT), Types of OSINT, OSINT Process, Open Source Information Categories, OSINT Framework, OSINT Framework Classification, OSINT Framework Website, tools used for OSINT	
Unit7	SNIFFING, ARP CACHE POISONING, MITM ATTACKS. AND COUNTERMEASURES ARP Protocol, Sniffing ARP Cache Poisoning, Man in the Middle (MITM) Attacks, Type of MITM Attacks, Scenario for Sniffing & ARP Cache Poisoning, Countermeasures for Sniffing & ARP Cache Poisoning	Hands-on Lab on Sniffing, ARP Cache Poisoning, Man in the Middle (MITM) Attacks using ettercap & its Countermeasures
Unit8	PASSWORD CRACKING AND COUNTERMEASURES Hash function, Hash algorithm, Password Hashes, Types of password attacks, Password Cracking types, Dictionary Attack, Brute Force Attack, Hybrid Attack, Rainbow Table Attacks, Cracking Passwords using John the Ripper, Other password Cracking tools, How passwords are stored in Linux,/etc/passwd and /etc/shadow, Permissions of /etc/passwd and /etc/shadow, Salt, Displaying hashing Algorithm used in Linux, pwconv, and pwunconv, How passwords are stored in Windows, SSH Password Testing With Hydra, THC Hydra Commands, Hardening of SSH, Password Cracking Countermeasures.	Hands-on lab on Password cracking techniques, Password Testing With Hydra,exploring,/et c/passwd and /etc/shadow and its countermeasures
Unit9	IP SPOOFING, DENIAL OF SERVICE, AND COUNTERMEASURES	Hands-on lab on IP
	IP Spoofing, Denial of Service (DoS), TCP SYN Flood Attack using hping3,Detecting TCP Syn Flood attacks using Wireshark, Detecting TCP Syn Flood attacks using netstat, Suggesting & Implementing Countermeasures	Spoofing, Denial of Service (DoS) ,hping, netstat, and its countermeasures
Unit10	TROJAN, BACKDOOR, VIRUS, AND COUNTERMEASURES	Hands-on lab on
	Introduction to Virus, What is Trojan?, Types Of Trojans, Different way a Trojan Can Get Into A System, Trojan, Backdoor, What is Keylogger, Categorization of Keystroke Loggers& Virus & Countermeasures,	Trojan, Backdoor and its countermeasures
Unit11	STEGANOGRAPHY	Hands-on lab on
	Information Hiding, Techniques Steganography, Information Hiding Techniques, Steganography, Types of Steganography, Difference Between Steganography and Cryptography, Steganography with CMD.Best Tools to Perform Steganography, Steganography using image file Steghide tool, Steganography with CMD, Steganography using image file Steghide tool, Scapy tool used for Steganography, ICMP, Steganography using ICMP Payload Scapy tool used for Steganography	Steganography CMD and using an image file Steganography
Unit12		using ICIVIP Pavload
	E-MAIL SPOOFING, PHISHING, AND COUNTERMEASURES	Hands-on lab on
	E-MAIL SPOOFING, PHISHING, AND COUNTERMEASURES Concept of Email, SMTP, POP3 and IMAP, Email Spoofing, What is Phishing, Phishing Techniques Types of Phishing, E-mail Phishing, E-Mail Tracking by Header, Concept of Fake E-mails, Protections, SPF,DKIM and DMARC records, Using nslookup to check SPF/DKIM/DMARC records Concept of Fake E-mails	Hands-on lab on demonstration on phishing mail and its countermeasures.
Unit13a	E-MAIL SPOOFING, PHISHING, AND COUNTERMEASURES Concept of Email, SMTP, POP3 and IMAP, Email Spoofing, What is Phishing, Phishing Techniques Types of Phishing, E-mail Phishing, E-Mail Tracking by Header, Concept of Fake E-mails, Protections, SPF,DKIM and DMARC records, Using nslookup to check SPF/DKIM/DMARC records Concept of Fake E-mails SECURING E-MAIL COMMUNICATION USING PGP	Hands-on lab on demonstration on phishing mail and its countermeasures. Hands on lab on
Unit13a	 E-MAIL SPOOFING, PHISHING, AND COUNTERMEASURES Concept of Email, SMTP, POP3 and IMAP, Email Spoofing, What is Phishing, Phishing Techniques Types of Phishing, E-mail Phishing, E-Mail Tracking by Header, Concept of Fake E-mails, Protections, SPF,DKIM and DMARC records, Using nslookup to check SPF/DKIM/DMARC records Concept of Fake E-mails SECURING E-MAIL COMMUNICATION USING PGP PGP, E-mail Security, Securing E-Mail Communication, PGP,MIME,S/MIME, Difference between PGP and S/MIME, Scenario For E-mail Security 	Hands-on lab on demonstration on phishing mail and its countermeasures. Hands on lab on Securing E-Mail communications using PGP
Unit13a Unit13b	 E-MAIL SPOOFING, PHISHING, AND COUNTERMEASURES Concept of Email, SMTP, POP3 and IMAP, Email Spoofing, What is Phishing, Phishing Techniques Types of Phishing, E-mail Phishing, E-Mail Tracking by Header, Concept of Fake E-mails, Protections, SPF,DKIM and DMARC records, Using nslookup to check SPF/DKIM/DMARC records Concept of Fake E-mails SECURING E-MAIL COMMUNICATION USING PGP PGP, E-mail Security, Securing E-Mail Communication, PGP,MIME,S/MIME, Difference between PGP and S/MIME, Scenario For E-mail Security WEB APPLICATION PRIMER Web Application Primer, Working of website, Application ,WWW (World Wide Web), ,Types of website - Static Website, Dynamic Website, Front End, Back End, Scripting Language, Responsive Web Design (RWD),HTTP Protocol, Basic Features of HTTP, HTTP Version, HTTP Request / Response , URI , URL , URN, Cookies, Session, HTTP Architecture, Http Protocol Details, HTTP Parameters, HTTP Messages, HTTP Requests , HTTP Responses, HTTP Response Codes 1xx,2xx,3xx,4xx,5xx etc, HTTP Methods, GET,HEAD,POST,PUT,DELETE,CONNECT,OPTIONS,TRACE,HTTP Status Codes ,HTTP Header Fields, HTTP Security, HTTPS Protocol ,Basic Working of HTTPS Basics, Encoding and Decoding, Same Origin Policy (SOP) 	Using ICMP Payload Hands-on lab on demonstration on phishing mail and its countermeasures. Hands on lab on Securing E-Mail communications using PGP Hands-on lab on Web Application
Unit13a Unit13b Unit14	 E-MAIL SPOOFING, PHISHING, AND COUNTERMEASURES Concept of Email, SMTP, POP3 and IMAP, Email Spoofing, What is Phishing, Phishing Techniques Types of Phishing, E-mail Phishing, E-Mail Tracking by Header, Concept of Fake E-mails, Protections, SPF,DKIM and DMARC records, Using nslookup to check SPF/DKIM/DMARC records Concept of Fake E-mails SECURING E-MAIL COMMUNICATION USING PGP PGP, E-mail Security, Securing E-Mail Communication, PGP,MIME,S/MIME, Difference between PGP and S/MIME, Scenario For E-mail Security WEB APPLICATION PRIMER Web Application Primer, Working of website, Application ,WWW (World Wide Web), ,Types of website - Static Website, Dynamic Website, Front End, Back End, Scripting Language, Responsive Web Design (RWD),HTTP Protocol, Basic Features of HTTP, HTTP Version, HTTP Request / Response , URI , URL , URN, Cookies, Session, HTTP Architecture, Http Protocol Details, HTTP Parameters, HTTP Messages, HTTP Requests , HTTP Responses, HTTP Response Codes 1xx,2xx,3xx,4xx,5xx etc, HTTP Methods, GET,HEAD,POST,PUT,DELETE,CONNECT,OPTIONS,TRACE,HTTP Status Codes ,HTTP Header Fields, HTTP Security, HTTPS Protocol ,Basic Working of HTTPS Basics, Encoding and Decoding, Same Origin Policy (SOP) WEB APPLICATION SECURITY -I 	Hands-on lab on demonstration on phishing mail and its countermeasures. Hands on lab on Securing E-Mail communications using PGP Hands-on lab on Web Application



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Unit15	MER APPLICATION SECURITY II	Hands on Jah on
- 01115	Apache Web Server Concepts, Web Server Attacks, Web Server Attacks Methodology, Web Server Attack Tools, Countermeasures, Patch Management, Web Server Security Tools, Web Server Pen Testing Countermeasures, Web Application Security Testing Tools, Vulnerability Scanning, Acunetix & W3af,Nikto,WAF Testing, WAF	Web Application Security and its Countermeasures.
Unit16	WEB APPLICATION SECURITY -III Brute Force Attack in Web Application, Command Injection in Web Application, SQL Injection in Web	Hands on lab on Web Application
	Application, XSS Reflected in Web Application, XSS Store in Web Application	Security and its Countermeasures.
Unit17	NETWORK TRAFFIC ENCRYPTION USING IPSec	Hands-on lab on
	Security, Protocols used in IPSec, SSH Port Forwarding	configuring IP Security between 02 Hosts.
Unit18	INTRUSION DETECTION SYSTEM USING SNORT IDS	Hands-on lab on
	Introduction to IDS, Types of IDS, Introduction to IDS, , Architecture of Snort, Logical components of snort,	Installing and
	Placement of Snort, Component used in Snort, Implementation Functions of IDS, Rules in snort Tools Of	configuring IDS.
Unit19	NETWORK SECURITY-I	Hands-on lab on
	Introduction to Network Security, Introduction to MAC address, Introduction to CAM Table, Layer 2 Attacks,	preventing CAM
	Spanning Tree Protocol (STP) Attacks, Preventing STP Manipulation Attacks, Address Resolution Protocol (ARP)	Flooding Attacks by
	Attacks, Media Access Control, Content Addressable Memory (CAM) Table Overflow, CAM Flooding Attacks,	using Switch Port
	Hopping using Switch Spoofing, VLAN Hopping using Double Tagging, Countermeasures for VLAN Hopping, VLAN	Security,
	Starvation Attacks, DHCP Spoofing Attacks, Switch port Security, MAC-Port Binding Types, Switch Port	
	Violations, Switch Port Security, Preventing CAM Flooding Attacks by using Switch Port Security	
Unit20	NETWORK SECURITY-II	Hands-on lab on
	Countermeasure for DHCP Starvation attack, DHCP Spoofing Attack Scenarios, DHCP Snooping, Preventing	unauthorized
	unauthorized access to DHCP Server by using DHCP Snooping, DHCP Snooping Configuration Example, IP Source	access to DHCP
	Binding, Preventing MAC Spoofing by using IP Source Binding, Port Mirroring, Configuring Port Mirroring	Server by using
		DHCP Shooping,
		Binding,
Unit21	PENETRATION TESTING USING METASPLOIT	Hands-on lab on
	Introduction to Penetration Testing, Penetration testing methodology, Types of penetration testing, Pen Testing	Penetration Testing
	Introduction to Penetration Testing Penetration testing methodology. Types of penetration testing. Pen Testing	using Metasploit
	Techniques, Penetration Testing Tools, Examples of Free and Commercial Tools, and Limitations of Pentest tools.	
	Metasploit GUIs, MSF Community Edition, Armitage	
	Binary Payloads, Client-Side Exploits, Social Engineering Toolkit, Client-side Attack and Privilege Escalation with Motorprotor using Social Engineering Toolkit	
linit22		Hands-on lab on
0111122	Memory Forensics Using Volatility Framework, Live Memory Acquisition and Analysis, Creating a Forensic Image	Live Memory
	and Analysis of Image, Acquiring an Image of Evidence Media Data Carving Recover Lost or Deleted Files,	Acquisition and
	Forensic Investigation Prefecth File Basic File Header Analysis Using Win HEX, Recovering Deleted Photographs	Analysis, Creating a
	Autopsy, Network Forensics, Investigating Logs and Investigating Network Traffic, Log Capturing and analysis	Analysis of Image.
	in Linux	Recover Lost or
		Deleted Files Using
Ilmit22	MAI WARE ANALYSIS	EnCase Hands-on lab on
-0111(25	Introduction to Malware, Objective of Malware Analysis, Types of Malware and Its Activities, Data of	Live Malware
	Malware Attacks, Malware Analysis and its Process, Static Malware Analysis and its Technique	Analysis, Setting Up
	Live Malware Analysis, Dynamic Malware Analysis and its Technique, Live Malware Analysis	of an Isolated
	VMware, Analyzing a System for Malware Infection, Checking System Applications are Legitimate or Not	System for Malware Analysis
	Checking Malicious File using MD5 hash	using VMware.
		Analyzing a System
		for Malware
		Infection



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Unit24	SECURITY INFORMATION AND EVENT MANAGEMENT	Hands-on lab on
	Introduction to SIEM, Network Threats, SIEM Architecture, SIEM Deployment, Logs and Events, Introduction to	Deploying Wazuh,
	Wazuh, Wazuh Features, Deploying Wazuh, Configuring Wazuh, Wazuh Agents, Log Analysis, Wazuh ruleset,	Configuring Wazuh
	Decoders and Rules, File Integrity Monitoring	and installation of
		WAZUH Agents.
Unit25	LOG ANALYSIS	Hands-on lab on
	Introduction to Syslog server, Need for Syslog Servers, Working of Syslog server, Different Logging Levels in	Kiwi Syslog server,
	Syslog, Severity Codes, Facility Codes, Difference between SNMP and Syslog	Log checking for
		switch and router,
		log analysis
Unit26	CYBER LAW	Case Study
	Cyber Crime Incidents at a Glance, Case filed against the Cyber Crime, What is Cyber Crime	
	Category for Cyber Crimes, Background of Cyber Law, Cyber Legislation Worldwide	
	Background of Cyber Law, IT Act 2000, IT Act Amendments 2008, Need of IT Act 2000, Chapters in the IT	
	Act, Schedules in IT Act, Need for IT Amendment Act 2008, Offences in IT Act, 23 Years of Milestones of IT	
	Act, Statutory Bodies under IT Act, Powers under the IT Act.	
	New 11 Rules, 2021, Digital Personal Data Protection Act, 2023, Need for New 11 law	
	I rends That Will Impact Cyber Law., Cyber Law and Intellectual Property, Cases Studies of TI Act Sections, Cyber	

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