

Student Learning Centre, IQAC, Hansraj College,
University of Delhi In association with ISOEH
launches an Online Weekend Course of 6 semesters

ADD ON COURSE ON
CYBER SECURITY (SLC-13)
With
INTERNSHIP*

**ONLINE CLASSES
ON SUNDAYS
ONLY**



*Internship opportunity after
Successful Completion of 6th Semester

Batches Starting from
~~JULY 15, 2024~~
AUGUST 4, 2024

Call Now

+91 8100103831
+91 8584959465

Email: cseh_hansraj@hrc.du.ac.in

Course Fee

₹ 3,990/- per semester

Bank Details:
Account Name: Principal, Hans Raj College
Account No: 2848101013013
Bank: Canara Bank
IFSC : CNRB0002848


Register Here




 **PROGRAM CONVENOR -
DR. SUNITA CHAND**

 **ISOEH COORDINATOR -
MR. UTSAV MAJUMDAR**

 **SLC CONVENOR -
DR. POOJA ARORA**

 **HRC FACULTY
COORDINATORS -
DR. MANJU
MS. AARTI GOEL**

 **PATRON -
PROF. DR. RAMA**

 **IQAC DIRECTOR -
DR. ALKA KAKKAR**

 **STUDENT
COORDINATORS -
NETRESH
YASHASVI**

**Registration Last
Date Extended
6th September
Due to High
Demand!!!**

About College

Hansraj College is one of the largest constitution colleges of University of Delhi and has been ranked as one of the top five colleges for Science, Arts and Commerce several times in the last decade. It is ranked as 12th best college all over India by NIRF and is accredited A++ by NAAC scoring a CGPA of 3.71, one of the highest amongst DU colleges.

The college has completed 75 years in the realm of imparting higher education. It has made significant and unparalleled contributions in terms of producing scholars, bureaucrats, intellectuals, and sportsperson serving in different domains not only in our own country but even at international levels.

It has highly qualified academicians who impart education in Science, Commerce, and Arts at undergraduate and graduate levels to more than 5000 students.



About Course

This course will be conducted by the Indian School of Ethical Hacking (ISOEH). Students will also get certification by ISOEH and Hansraj College with the logo of CERT. The semester training program is of 40 hours duration. The classes will be online and will be held only on Sundays in an interactive mode with expert faculties and doubt sessions. **some classes have already conducted for that a crash course will be provided**

Fees once paid will not be refunded. Last date to register is 6th September 2024

RESOURCE PERSON

SAPTARSHI KUNDU

B.SC COMPUTER SCIENCE (CALCUTTA UNIVERSITY), CEH, NPT, WAPT, CCNA
HE IS AN INFORMATION SECURITY ANALYST AT ISOEH. HE HAS IN-DEPTH KNOWLEDGE IN C, JAVA, PYTHON, NETWORKING (CCNA), ETHICAL HACKING, NPT, AND WAPT. HIS AREA OF INTEREST IS NPT, PYTHON & SIEM.

Certification and Assessment

Certification will be for each semester course
Plus program certification at the end of the program. Attendance in 80% of the sessions is mandatory for successful completion

DELIVERABLES



LIVE LECTURES



ACTIVITIES



ASSESSMENT



CERTIFICATION



INTERNSHIPS



PRESENTATION AND
OTHER RELEVANT
MATERIAL

REGISTRATION DETAILS

Fee: INR 3990 (per semester)

Mode of Payment: Online
(NEFT/RTGS)

Beneficiary Name: Principal,
Hansraj College

Account No.: 2848101013013

IFSC Code: CNRB0002848

Bank Name and Branch:
Canara Bank, Hansraj College,
Delhi

**Limited Seats. Confirmation to
be on first- come- first-served
basis.**

**For any query write on:-
cseh_hansraj@hrc.du.ac.in**

CCNA ESSENTIALS

MODULE	LIST OF TOPICS
INTRODUCTION	What is Networking, What is Internet, LAN, MAN, WAN, Topology, Bits, Bytes and Octets, What is Packet Tracer, Packet Tracer Installation
OSI LAYER	What is OSI Layer, Explain 7 layers, Brief explanation for TCP Header, Brief explanation for 3-way Handshake, Comparison between OSI and TCP/IP Mode
ADDRESSES	Introduction to IP and MAC Address, Use of IP and MAC Address, What is OUI and DI, IANA, ICANN, IPv4(Classful Addressing), Class A, B, C, D, E, Public IP Private IP, Loopback Address and APIPA, Default Subnet Mask
IP ADDRESSING	What is Subnetting?, What is FLSM and VLSM?, What is Subnet Mask, What is CIDR?, Calculate FLSM for Class C Address, Calculate VLSM for 4-6 Network Requirement with variable Host
ROUTER, DHCP CONFIGURATION	How to use Packet Tracer?, Network setup using 2 pc and switch, Router Components and Different Modes (also talk about router memory and how router saves configurations, Router Configuration (including Router password set and bypass), Network setup using 2 pc, switch and router, DHCP Configuration using 4pcs(Classful & Classless), What is Telnet, ssh, ftp/tftp , Configure SSH with security in Router

CCNA ESSENTIALS

MODULE	LIST OF TOPICS
SWITCHING CONCEPT(VLAN)	What is Switching ? (Explain ARP as well), What is VLAN?, Different Modes(Access, Dynamic and Trunk), Configure VLAN (2-3 VLANs), Configure Intervlan Routing(Using Router with 2 interfaces, Router on Stick)
SWITCHING CONCEPT(VTP)	What is VTP?, Configure VTP(Server, Client, Transparent Mode) with 4 Switches
SWITCH SECURITY(PORT SECURITY, DHCP SNOOPING)	What is Port Security?, Configure Port Security(Restrict, Protect, Shutdown Mode)(Sticky,Dynamic MAC Address, Maximum Address), What is DHCP Snooping?, Configure DHCP Snooping with 2 Servers(DHCP Configured inside) and 4 PCs
STP, RSTP, IGP, EGP	What is Routing? (also discuss CDP, LLDP), What is IGP and EGP?, Explain Different Vectors and Metrics, Different protocols under IGP and EGP, What is AS number and AD value?, STATIC routing, Default Routing, Dynamic Routing (Intro)
OSPF v2	Configure and verify single area and Multi area OSPFv2, Neighbor adjacencies, Point to point, DR/BDR selection (Explanation), Router ID

CCNA ESSENTIALS

MODULE	LIST OF TOPICS
ACL	What is and use of ACL?, What is Standard and Extended ACL?, Standard (Name,Number) ACL Configuration with 2 Routers blocking/allowing a network/host for hosts/network, Extended (Name,Number) ACL Configuration with 2 Routers blocking/allowing a network/host for ICMP, HTTP, HTTPS, FTP, TELNET
NAT, PAT	What is NAT? Different Types of NAT, Configure Static NAT (Only Inside Rule) with two router, Configure Dynamic NAT (Only Inside Rule) with two router using Pool and Interface, What is PAT?, Configure PAT (Only Inside Rule) with two router using Pool and Interface
WIRELESS	WLAN 4 way handshake, Describe wireless security protocol (WPA,WPA2, WPA3), Configure and verify WLAN within the GUI using WPA2 PSK
INTERNAL EXAM, WAN	Explain Different WAN Technologies(Leased Line, Circuit Switching, Packet Switching), What is Point to Point and Multiaccess Link?, Explain and Configure different Point to Point Link encapsulation technology(HDLC, PPP --> PAP, CHAP)
IPV6 BASIC	Why IPv6?, How to write IPv6 Address?, Different Types of IPv6 Address(Unicast, Multicast, Anycast), Different Types of Unicast Address(Global Unicast, Unique local, link local), Configure and Verify IP address on Router with 2PCs, Configure and Verify Static Autoconfigure Address, Configure and Verify Static Routing with 2 Routers

CCNA ESSENTIALS

MODULE	LIST OF TOPICS
AAA, TACACS+ AND RADIUS	Define ICMP, DNS, Explain AAA and the working, Discuss the differences between TACACS+ and RADIUS
SNMP, DMZ	What is SNMP? Different SNMP Version, What is MIB,OID? What is SNMP Agent and Manager?, Different SNMP Queries, What is DMZ? Why is used?, Discuss How DMZ are formed?, Configure SNMP in Packet racer
PROXY, VPN	What is Proxy? Why it is used?, What is VPN?, Different Types of VPN(Site-to-Site, Remote-access), Different VPN Technologies(GRE, DMVPN, IPSEC), Configure GRE in Packet tracer

Duration : 4hrs on SUNDAYS