

CCNA Essentials Brochure

ISOAH

Indian School Of
Anti Hacking

www.isoah.com

Cyber Security Training in Kolkata at

CERT-In Empaneled Audit Firm



Dr. B.C.Roy Engineering College, Durgapur

Dedicated to 'Quality Education'

Affiliated to MAKAUT | Approved by AICTE | NBA Accredited* | NAAC | NIRF Ranked

Get Taught By Professional HACKERS



ISO 27001 : 2013 & ISO 9001 : 2015 Certified by BSI

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Accredited Training Center

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India needs about
77,000
Ethical Hackers &
5 Lac
Cyber Security
Professionals
every year*

We currently have only 50,000.

There is an acute deficit of skilled cyber security professionals in the industry. The demand will rise with Digital India & Industry 4.0 drive.

Are you ready for the

OPPORTUNITY?

*NASSCOM Report



ISOEH is
**India's
Top
Cyber
Security
Training
Institute**
in Kolkata, Siliguri &
Bhubaneswar

We're specialized in Ethical Hacking,
Cyber Security, Digital Forensic,
Penetration Testing, Networking,
Reverse Engineering & Malware
Analysis

Since 2011
we are putting an effort to
impart in-depth
IT Security

know-how to fresher as well as
senior working professionals



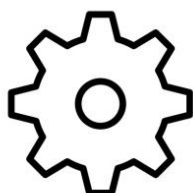
We are
ISO
27001 : 2013
& 9001 : 2015
Certified
BY BSI



We are
MEMBER OF
NASSCOM,
DSCI, CII



We are
WB
PARTNER OF
MAKAUT
*(Maulana Abul Kalam Azad University of
Technology, WB)*
and in Collaboration with
CCPTR



We are
Eastern India's
Oldest &
Largest
EC-Council
Accredited Training & Global Exam
Center



We are
First to
Offer
BSc
and PG Diploma in
Digital Forensic and Cyber
Security



Faculties
are Working Professionals with
15-20 Years Experience, who are
Ethical Hackers, Penetration
Testers and ISO 27001 Lead Auditor
Lead Auditors with OSCP, SCP, OSCE,
LPT, CEH, ECSA, CHFI, CCNA.
Learn the Skills & Be Job
Ready with Live Projects.



Classes are 100%

Practical and Interactive

Tools & Books: Latest tools and books will be provided.

No Language Barrier: Taught by Bengali, English & Hindi speaking faculty.

Flexibility: Live online class, classroom training, weekday and weekend batches available.

Hacking Lab: Faculty help you to build up your own hacking labs in your laptop with our VMs, Tools, software; where you can practice.

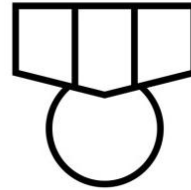


We offer Superior

Assistance to our **successful students.**

We will help you with:

- Drafting your CVs
- Preparing you for interviews
- Put you into Campus placement



Besides this we conduct various in-house Cyber Security competition such as

Hackathon with **Prize Money for our Students**



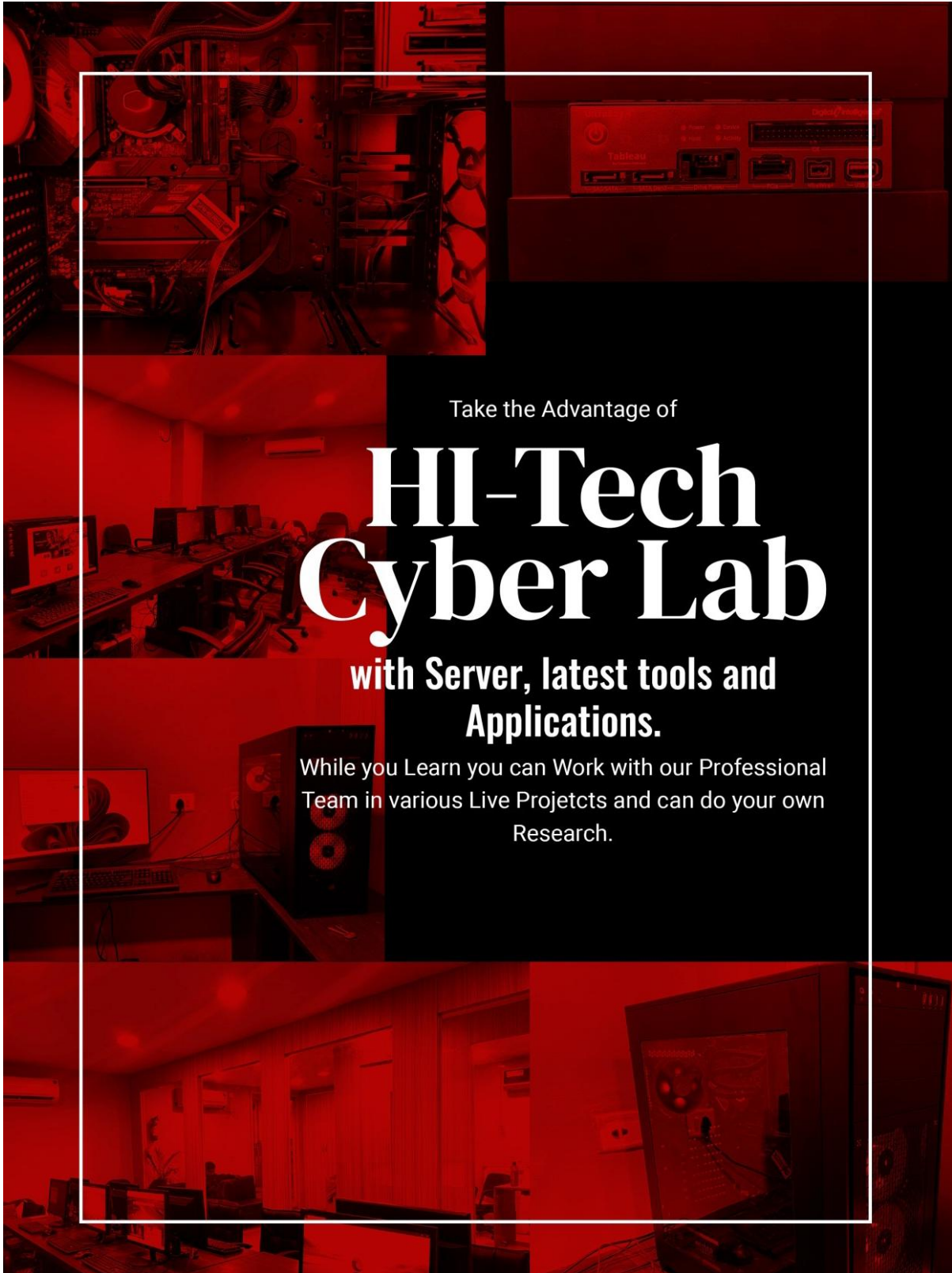
Campus

Placement

available for our students.

**Our Students are recruited by
MNCs Government
Organization**

such as **Intel, PwC, Tata
Consultancy Services, Cognizant,
Kolkata Police, CID and more...**



Take the Advantage of

HI-Tech Cyber Lab

**with Server, latest tools and
Applications.**

While you Learn you can Work with our Professional
Team in various Live Projetcts and can do your own
Research.

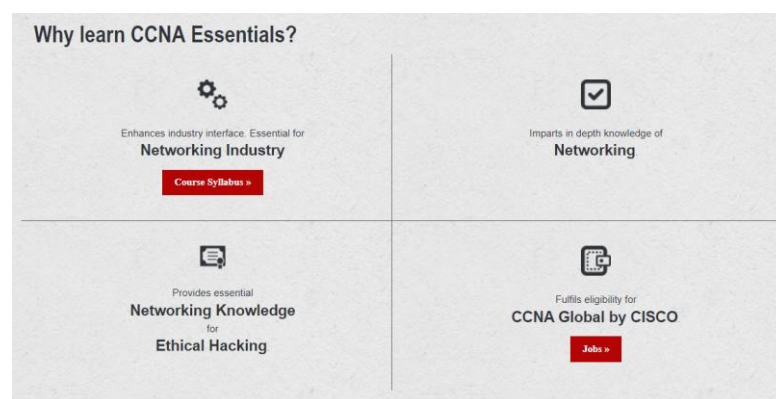
WHY STUDY CCNA? KNOW THE DETAILS




CCNA or Cisco Certified Network Associate is an Information Technology certification from CISCO, the American multinational and leader in IT, networking and cyber security solutions. CCNA certification is an associate level Cisco Career Certification.

The CCNA certification is valid for a period of 3 years. Renewal of the certification requires the present holders to register and pass the same or higher-level Cisco re certification exam every 3 years.

There are several reasons why studying CCNA can be beneficial, including:

1. Career advancement: CCNA certification can open up new job opportunities and lead to higher-paying positions in the IT industry.
2. In-depth understanding of networking: Studying for the CCNA exam will give you a thorough understanding of networking concepts, including LAN and WAN technologies, routing protocols, and network security.
3. Industry recognition: CCNA is a well-recognized certification in the IT industry and can give you a competitive edge when applying for jobs.
4. Practical skills: Studying for the CCNA exam involves hands-on experience with networking devices, allowing you to develop practical skills that can be applied in real-world scenarios.
5. Professional credibility: Obtaining a CCNA certification demonstrates your commitment to professional development and can enhance your professional credibility.



 Duration 40 hours - 2 classes per week	 Eligibility 10+2 along with a basic aptitude and understanding of computer hardware knowledge.	 Course Fees Class Room Training Rs.13,000/- Inclusive of all taxes Online Training Rs.23,000/- Rs.13,000/- Inclusive of all taxes
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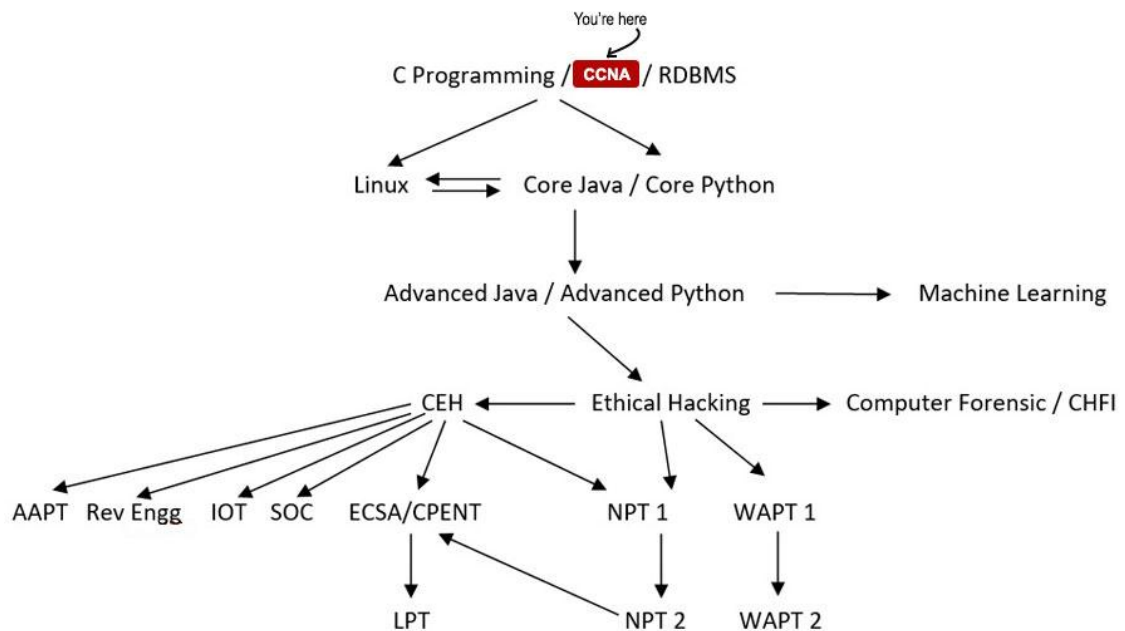
What You Will Get?

40 Hours in-depth training by Cisco Certified Trainer	Study Materials	CCNA Essentials Certificate of Completion after examination and alumni status
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Enroll Into The Course »

Pay & Book Your Seat »

YOUR COURSE PATH:



COURSE DETAILS:

Module 1: Basic of Networking2 Hours - 6 Topics

- What is network and module? **(Day 1)**
- What is network topology? Describe each? **(Day 1)**
- What is Transmission channel or mode? **(Day 1)**
- What are Broadcast, Unicast, and Multicast? **(Day 1)**
- What are Ethernet media and types? **(Day 1)**
- Describe Data size? What is link speed and bandwidth? **(Day 1)**

Module 2: Network Media (cable)2 Hours - 4 Topics

- What is network media? **(Day 2)**
- How many types of Network media and describe each? **(Day 2)**
- What is cross and straight cabling? **(Day 2)**
- Practical Creation of UTP cable **(Day 2)**

Module 3: OSI and TCP layer2 Hours - 7 Topics

- What is OSI layer? Describe each? **(Day 3)**
- What is TCP/IP stack or layer)? **(Day 3)**
- What is Data encapsulation and de-encapsulation? **(Day 3)**
- What is flow control and data segmentation? **(Day 3)**
- What are three way-handshake connections? **(Day 3)**
- How many types of TCP/UDP port and describe each? **(Day 3)**
- Describe TCP header and FCS? **(Day 3)**

Module 4: IPv4, VLSM, FLSM, IP Header2 Hours - 5 Topics

- What is logical address and describe IP class? **(Day 4)**
- IPv4 Header **(Day 4)**
- What is Private and public address? **(Day 4)**
- Subnet, VLSM,FLSM,Wild Mask **(Day 4)**
- What are UDP and TCP? **(Day 4)**

Module 5: IPv62 Hours - 5 Topics

- What is IPv6 protocol? **(Day 5)**
- How many types of address in IPv6? **(Day 5)**
- What is Link local, Global Unicast, Site local, subnet prefix? **(Day 5)**
- IPv6 Header **(Day 5)**
- What are unicast, anycast, and multicast? **(Day 5)**

Module 6: Logical Addressing, Router/Switch, Networking Tools2 Hours - 5 Topics

- What is Static and Dynamic IP? Why we give IP on only TCP/IPv4 and TCP/IPv6? **(Day 6)**
- Difference of Public and Private IP? What is DHCP and describe DORA method? **(Day 6)**
- What is Switch and describe switching technology and types of switch? **(Day 6)**
- What CSMA-CD and CSMA-AD technology in switch? What is VLAN describe it? **(Day 6)**
- What is Router? Discuss of Router types like, Core Router, Edge routers VVRP etc, **(Day 6)**

Module 7: IP addressing Assign, DHCP, Network Tools2 Hours - 2 Topics

- Dhcp server configuration on windows server **(Day 7)**
- What is Nslookup, Tracert, Ping, netstat, arp, etc? **(Day 7)**

Module 8: Cisco Switch, Router, FrameRelay, ACL2 Hours - 5 Topics

- What is L2, L3 switch and FrameRelay? What is VLAN, InterVlan routing? **(Day 8)**
- What is Sub-interface Port, Trunk, and IEEE 802.1dotq? Describe VTP (Vlan Trunking Protocol)? **(Day 8)**
- What is Standard and Extended ACL? **(Day 8)**
- What is NAT? Difference between SNAT, DNAT and PAT? **(Day 8)**
- What is RIP, OSPF, and EIGRP? Describe rule of dynamic protocol? **(Day 8)**

Module 9: Installation Packet Tracer, Basic Switch, Router2 Hours - 3 Topics

- Lab1: Installation of Packet Tracer on computer **(Day 9)**
- Lab2: Basic switch/router configuration, vlan, intervlan **(Day 9)**
- Lab3: Configure Static and default routing configuration **(Day 9)**

Module 10: Configuration Dynamic Routing Protocols2 Hours - 3 Topics

- What are RIPv1 and RIPv2? **(Day 10)**
- What is the rule to configure RIP **(Day 10)**
- RIP, RIPv2 configuration **(Day 10)**

Module 11: Configuration NAT, SNAT, DNAT, ACL2 Hours - 6 Topics

- What is NAT? **(Day 11)**
- What are difference between the SNAT and DNAT? **(Day 11)**
- Lab: NAT, SNAT, DNAT configuration **(Day 11)**
- What is ACL? **(Day 11)**
- Write the rules of configuration ACL **(Day 11)**
- Lab: ACL configuration **(Day 11)**

Module 12: Standard and Extended ACL configuration2 Hours - 2 Topics

- Configuration of Standard and named ACL **(Day 12)**
- Configuration Extended ACL configuration **(Day 12)**

Module 13: OSPF2 Hours - 3 Topics

- What is ospf? **(Day 13)**
- What are rules of ospf configuration? **(Day 13)**
- Configuration Inter Area OSPF and Multi area ospf **(Day 13)**

Module 14: EIGRP2 Hours - 3 Topics

- What is eigrp? **(Day 14)**
- Write the rules to configure eigrp **(Day 14)**
- Configuration eigrp **(Day 14)**

Module 15: WAN Technologies2 Hours - 4 Topics

- Introduction of Wan technologies **(Day 15)**
- Types of Wan technologies **(Day 15)**
- What SD-WAN and discuss on it? **(Day 15)**
- What is frameRelay and configure on Packet tracer? **(Day 15)**

Module 16: Wireless Technologies2 Hours - 4 Topics

- Introduction of Wireless **(Day 16)**
- Types of Wireless band, describe **(Day 16)**
- Wireless Technology **(Day 16)**
- Bluetooth, WLAN channels **(Day 16)**

Module 17: DNS2 Hours - 5 Topics

- Introduction of Domain Technologies **(Day 17)**
- Types of NS records **(Day 17)**
- What is Root server, Secondary Server, Sub-domain? **(Day 17)**
- Interactive domain, non-authority domain, DNS zone transfer **(Day 17)**
- What is Reverse lookupzone, forward zone? **(Day 17)**

Module 18: Configuration domain and Active Directory2 Hours - 2 Topics

- Installation of windows Server 2008, 2012 **(Day 18)**
- Configure ADDS, DNS service **(Day 18)**

Module 19: Network and Computer Security2 Hours - 7 Topics

- What is network and Computer Security? **(Day 19)**
- Types of network and computer Security Protection **(Day 19)**
- What is Firewall and describe it? **(Day 19)**
- What is Internal and external threats **(Day 19)**
- Describe threats **(Day 19)**
- What is DDOS, DOS Honey pots, IDS, Malware, Spyware, Ransom ware etc **(Day 19)**
- What are Social networking threats? **(Day 19)**

Module 20: Cloud Security2 Hours - 2 Topics

- What is cloud Security? **(Day 20)**
- Describe cloud security method? **(Day 20)**

ISOEH FACULTY

<u>Name</u>	<u>Academic Qualification</u>
Sandeep Sengupta	CISA, Lead Auditor, 24 years' experience as an ethical hacker.
Somdeb Chakraborty	M.Sc in Computer Science (CEH, CCNA, CHFI)
Saumitra Biswas	M.Tech CS, MSc Statistics, expert - AI / ML & Data science
Saugata Sil	MCA, Certified Ethical hacker
Debasmita Basu	MSc Forensics (Makaut - P)
Arindam Manna	B.Tech CS, IoT security expert
Pankaj Kumar Roy	Expert - Network, AWS; 7 years of industry experience
Partha Pratim Chakraborty	BSc - CS, Cyber Security Expert, CEH
Tanay Bag	MSc, Cyber Security expert
Saptarshi Kundu	BSc CS (CU), IoT security expert, exploit writer
Anirban Sarkar	MCA, Cyber Security expert



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Cognizant

Cognizant



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Ernst & Young

J.P.Morgan

J.P. Morgan & Co.

ORACLE

Oracle



CID West Bengal



Kolkata Police
Lalbazaar Cyber Cell

ISOEH ALUMNI



Anirban Bhattacharya
Python Programming - TCS



Sanjeev Kr Sumbria
CHFI - Indian Army



Yashajeet Chowdhury
CEH - Microsoft



Anoma Barua
LPT - SAP LABS, USA



Partha Basu
Computer Forensic - West
Bengal Police, Kolkata



Krishnapriya Neema
Digital Forensic - Rackbank
Datacenters



Tathagata Banerjee
CEH, CCNA - Dell



Ravindra Singh
CHFI - HSBC HDPI



Sourajyoti Bose
Oracle

1000+ and more...

We have received Prestigious **AWARDS**



Best entrepreneur award from Hon'ble Minister of Finance (WB), Dr. Amit Mitra for Information Security startup, on behalf of BCCI



ISOAH Director Mr. Sandeep Sengupta awarded as Top 100 CIOs in India by VARINDIA. Announcement of Awards of Eminent CIOs of India (ECIO) at 18th Infotech Forum 2020



ISOAH got the award for best Auditor Firm in East India by ITPV media & TechPlus Media - ITVARNEWS

ISOEH Organized & Participated in various EVENTS



Seminar for the journalists of eminent newspapers and media houses of Siliguri on "Hi-tech Cybercrimes and the preventive measures and safety tips against them"; by our Director Mr. Sandeep Sengupta, Shri Sanjay Kumar Das (WBCS), Jt. Secretary –



GROUND ZERO - North Bengal Cyber Security Challenge (Hackathon) - 2022

IT & E, State Information Security Officer, West Bengal along with Mr. Nirupam Chaudhuri – Head NASSCOM (Eastern India).



ISOEH Organized a Press Conference at The Press Club, Kolkata on Recent Hi-Tech Cyber Crimes and Preventive Measures Against those Crimes. All the eminent newspapers and media houses were present to cover the show. The main attraction of the conference was: Car Hacking Live Demo at a low cost of 5k to 6k; Tracking Frequency of Flights; BSc. degree courses like digital Forensics and its advantages shortly; and launching of hi-tech digital forensics lab for first time in Eastern India.



Cyber Security Awareness Rally Walk at Salt Lake Sector-V, Kolkata on National Computer Security Day



Ground Zero & Cyber Shikshak at ISOEH Siliguri Centre, March 2021



BCCI Entrepreneurship Conclave & Award 2020-21



International Conference in Kolkata

Our Cyber Security Experts on **TELEVISION**

ISOEH Director Sandeep Sengupta & Cyber Expert Samyajit Mukherjee in the discussion panel on



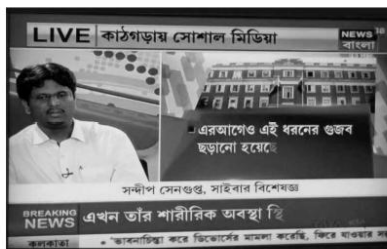
NDTV



Zee 24 Ghanta



ABP Ananda



News 18 Bangla



News18 Bangla



India Today



TV9 Bangla



ABP Ananda

ISOEH CORPORATE CLIENTS



ISOEH CONTACT

ISOEH Saltlake Office

(An unit of ISOAH Data Securities Pvt. Ltd.)



SDF Building, Module - 335, 2nd Floor, Sector - V, Saltlake City, Kolkata - 700091. (Near SBI ATM, opposite to Cognizant / Infinity)
8am - 7pm (7 days open)



For all queries:

Mobile: +91 9903767814
+91 8100103831
+91 9007392360

All Days - 8am to 7pm



sandeep@isoeh.com

Durgapur Branch Office



CA/19, Urvashi Ph-2 Adda, Bengal Ambuja City Centre, Durgapur, West Bengal - 713216



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+91 9830310550



sandeep@isoeh.com

Siliguri Branch Office



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+91 9830310550



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Bhubaneswar Branch Office



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+91 9007392360



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Indian School Of Ethical Hacking

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