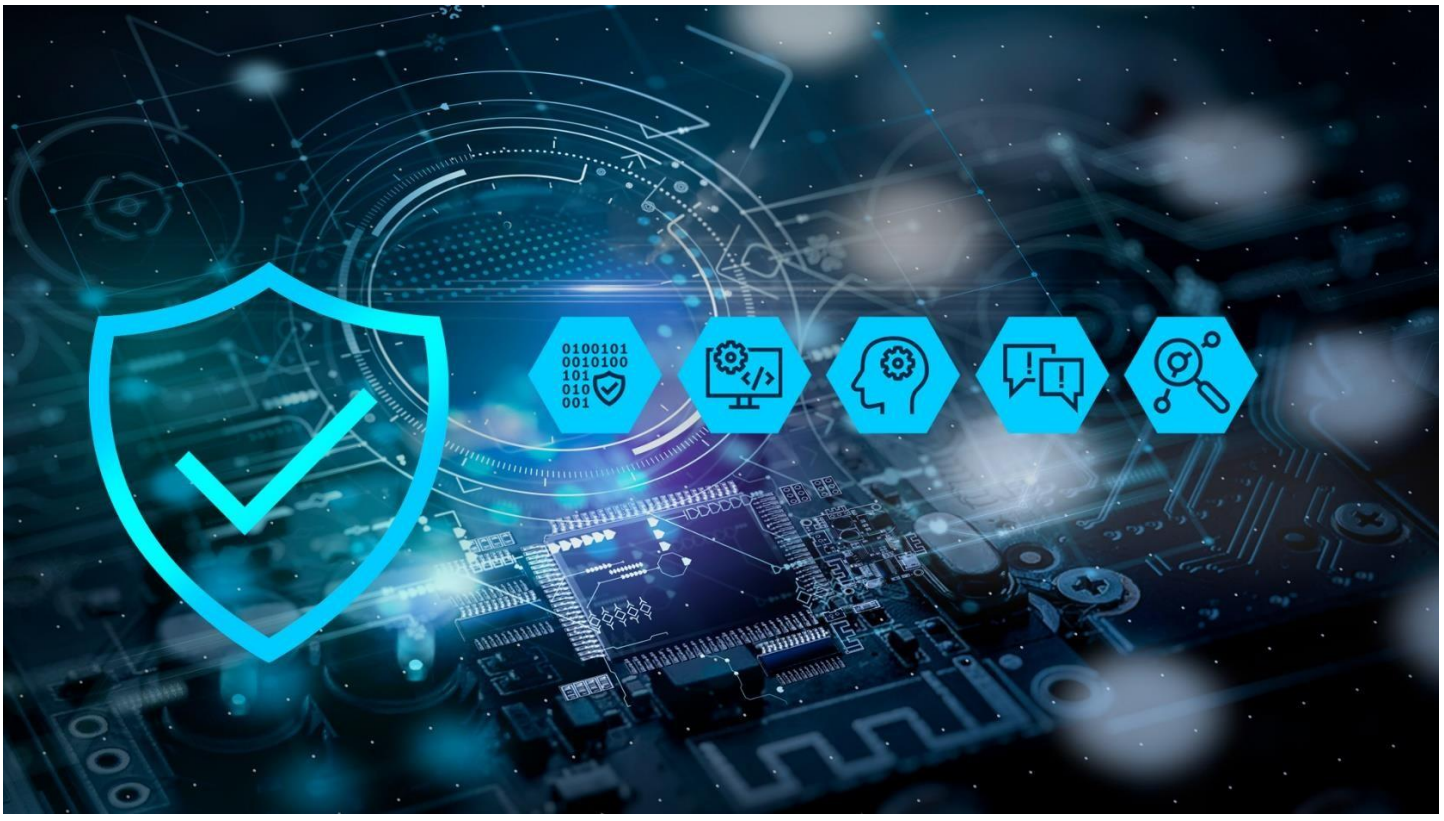
नेशनल इंस्टीट्यूट ऑफ इलेक्ट्रॉनिक्स एंड इंफॉर्मेशन टेक्नोलॉजी, चेन्नई
National Institute of Electronics and Information Technology, Chennai
Autonomous Scientific Society of Ministry of Electronics & Information Technology (MeitY), Govt. of India
ISTE Complex, 25, Gandhi Mandapam Road, Chennai - 600025

Course Prospectus

"Cyber Security Associate"
(NSQF - Level 4.5)

Mode: Online Blended



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Course Prospectus

Course Name: Cyber Security Associate

Course Code: IS181

NSQF LEVEL: 4.5

Duration: 540 Hrs. (4 Months)

Last Date of Registration: 01.10.2026

Date of publishing Provisional Selection List: 05.10.2026

Payment of first instalment fee: 06.10.2026

Course Start Date: 07.10.2026

Preamble:

Business @ the speed of thought has moved from a buzzword to a business reality owing to the integration of business and technology. Digital infrastructures and information networks have become central to any business activity. The information residing on these computers, networks and in cloud are an essential asset and due care should be taken for its security. The impact of any loss of this asset or any downtime of the infrastructure is quite high with the proliferation of easy-to-use tools and open how to- discussions, the number of people aimingto hack in to or bring down the network is high, both in this country and abroad. Hence, there is a need for heightened security measures to protect both infrastructure and data.

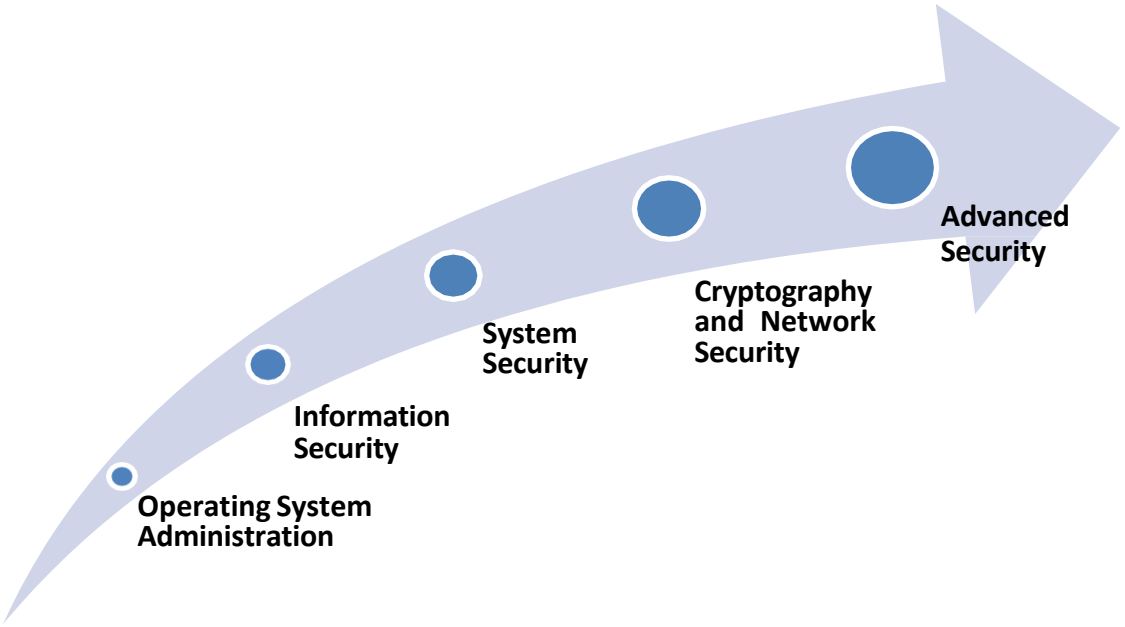
Objective of the Course:

The Course is 540 Hrs. (14 weeks) programs aimed at molding candidates to be a skilled knowledgeable System Security to maintain the Security of Systems and Networks in today's scenario.

Outcome of the Course:

This skill-oriented course provides candidates with information required for configure and administration of OS Server, Networks, Database, Wireless & its Security and equip them with the skills required to protect & recover the computer systems & networks from various security threats in dedicated or virtual environment.

Full Flow of Course



Course Structure: This course contains total six modules. After completing the first five modules, the students have to do a 30 Hrs. Project using any of the topics studied to get certified.

Sl.No	Module Name	Duration (in Weeks)
Module 1	Fundamentals of Network and Operating Systems	2 Weeks
Module 2	Fundamentals of Cyber Security	2 Weeks
Module 3	Cryptography and Ethical Hacking	2 Weeks
Module 4	Network and Infrastructure Security	2 Weeks
Module 5	Vulnerability Assessment and Penetration Testing	2 Week
Module 6	Cyber Forensics	2 Week
Module 7	Project Work	1 Week
Module 8	Employability Skills	1 Week
Total Duration		14 Weeks

Course Fees

Registration Fee- Rs.1000/-

Course fee is Rs. 30,500/- {Can be paid as a single instalment of Rs.30,500/- (Including Reg. fee) or in 2 instalments as given below}

Registration Fee	Rs. 1000/-	Nil/-	
Installment No	**General Candidates (Course Fee.)**	**SC-ST Candidates (Course Fee.)**	**Last Date**
1	14,750.00	Nil/-	06-10-2026
2	14,750.00	Nil/-	15-01-2027
Total	**30,500.00**	**Nil/-**	

Registration Fee- Refund Policy:

(Non-Refundable if candidate is selected for admission but did not join and if a candidate has applied but not eligible.)

However, the registration fee shall be refunded on few special cases as given below:

- ✓ Candidates are eligible but not selected for admission.
- ✓ Course postponed and new date is not convenient for the student.
- ✓ Course cancelled.

Eligibility

S.No	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (With Specialization - if applicable)
1	Completed 1st year of B.Tech/ BCA/ B.Sc. (CS/IT/Electronics/ allied area) **OR** Pursuing 1st year of B.Tech/ BCA/ B.Sc. and continuous education **OR** Pursuing 3rd year of 3-year diploma (CS/IT/EC/EE/ allied branches) after 10th and continuous education **OR** Completed 3-year diploma after 10th **OR** Completed 2nd year of 2 year diploma in after 12th **OR** Pursuing 2nd year of 2- year diploma after 12th and continuous education	

	OR 10th Grade pass plus 2 years of vocational Education (NTC) plus 1 year of NAC in IT-ITeS. **OR** Previous relevant Qualification of Level 3 and with minimum education as 8th Grade pass and 3 years of experience in IT-ITeS Sector.	

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How to Apply?

Candidates can apply online in our website https://nva.nielit.gov.in Payment towards non-refundable registration fee can be paid through any of the following modes:

- ✓ Online transaction: Account No: 31185720641 Branch: Kottur (Chennai), IFS Code: SBIN0001669.
- ✓ Payment Gateway/GPAY/any UPI

Note: *The Institute will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account*

Last date of Registration: 01.10.2026

Registration Procedure

All interested candidates are required to fill the Registration form online with registration fee **On or before 01.10.2026** with all the necessary information.

Selection Criteria of candidates

Selection of candidates will be based on their marks in the qualifying examination subject to eligibility.

- ✓ The first list of Provisionally Selected Candidates will be published on NIELIT Chennai website (www.nielit.gov.in/chennai) on **05.10.2026** by **5:00 PM**. In case of vacancy, an additional selection list will be prepared and the selection will be intimated by email only.
- ✓ Provisionally selected candidate has to upload following document on registration portal for online verification :
  - Original Copies of Proof of Age, Qualifying Degree (Consolidated Mark sheet & Degree Certificate/Course Completion Certificate), 10th and 12th mark sheets.
  - Self-attested copy of community certificate.
  - One passport size photograph.
  - **AADHAR Identity proof.**
- ✓ After document verification selected candidates have to pay first instalment of **Rs. *14,750/-*** (for General/OBC/EWS/SC/ST) on or before **06.10.2026** by payment mode mentioned above.
- ✓ Selected candidates are requested to upload the proof of remittance of fee on

registration portal and also send the proof of remittance of fee as email to **trng.chennai@nielit.gov.in**.

Admission: All provisionally selected candidates whose documents are verified and paid the fees (full or first instalment) and verified by accounts section of NIELIT Chennai will get a welcome message in his login id provided during registration. The credential and url for online portal will be shared through WhatsApp or email.

Discontinuing the course:

- ✓ No fees (including the security deposit) under any circumstances, shall be refunded in the event of a student who have completed the process of admission or discontinuing the course in between. No certificate shall be issued for the classes attended.
- ✓ If candidates are not uploading consecutive 3 assignments within assigned time, then their candidature will be cancelled without any notice and all fees paid will be forfeited.
- ✓ If candidates are not appearing for any internal examinations/practical their candidature will be cancelled without any notice and all fees paid will be forfeited.

Course Timings: This program is a practical oriented one and hence there shall be more lab than theory classes. The classes and labs are online cloud based from 9.30 am to 5:30 pm and Monday to Friday.

Address:

National of Electronics and Information Technology
ISTE Complex, No. 25, Gandhi Mandapam Road, Chennai – 600025
E-mail: trng.chennai@nielit.gov.in/Phone: 044-24421445

Contact Person: Mr. Balakumar V, Mobile: 7598730125

Course enquiries

Students can enquire about the various courses either on telephone or by personal contact between 9.15 A.M. to 5.15 P.M. (Lunch time 1.00 pm to 1.30 pm) Monday to Friday.

Placement:

Students who have completed the course successfully and qualified, Placement guidanceand career counselling will be given to crack their interviews.

Important Dates:

- **Last Date of Registration: 01.10.2026**
- **Display of Provisional Selection List: 05.10.2026**
- **Payment of first instalment fee: 06.10.2026**
- **Course Start Date: 07.09.2026**
- **Payment of second instalment fee within: 15.01.2027**

Examination & Certification:

- ✓ Certification Body: Examination Section, NIELIT HQ
- ✓ Certificates will be issued after successful completion of all the modules including project. For getting Certified Cloud Computing Engineer certificate a candidate has to pass each module individually with minimum required marks

Examination Pattern:

Examination scheme is as follows:

Means Of Assessment										
Theory			Practical			Internal Assessment	Project/ Presentation /Assignment (Marks)	Major Project/ Dissertation (Marks)		Total
Papers	No. of Questions/Paper	Duration (in Min.)	Papers	Duration (in Min.)	Marks / Paper			No. of Projects	Marks	
2	100	90	1	180	90	30	0	1	30	**350**

Theory Papers

- **Theory 1 – Cyber Security Associate Paper -1**
- **Theory 2 – Cyber Security Associate Paper -2**

Practical Papers

- **Practical 1 - Cyber Security Associate**

Grading Scheme

Following Grading Scheme (on the basis of total marks) will be followed:

Grade	S	A	B	C	D	Fail
Marks Range (in %)	85 to 100	75 to 84	65 to 74	55 to 64	50 to 54	Below 50

Final Grading as per above grading scheme will be given on the basis of total marks obtained in all modules.

Faculty

Mr. Mohamed Affan. R	Ms. Vimala. P
BE (CSE)	BE (CSE)
Mob. No. 9500428926	Mob. No. 9629285065
mohamedaffan@nielitchennai.edu.in	vimala@nielitchennai.edu.in

Detailed Syllabus

Module1: Fundamentals of Network and Operating Systems

- Computer Networking
- OSI Reference Model & TCP/IP Protocol Suite
- TCP/IP command line Troubleshooting utilities
- Overview and Exploring Windows OS
- Overview and Exploring Linux OS

Module 2: Fundamentals of Cyber Security

- Basics of Information Security
- Ethical Hacking and Basic Cryptography
- Introduction to OS security
- Security Tools for Windows Operating System
- Introduction to Wireless Network and Wireless Security
- Introduction to the Android and iPhone iOS Operating systems
- Android and iPhone iOS Operating systems
- Web Application & Terminologies
- Web Application Protocols & Browser Security
- Introduction to Social Media & its security
- Digital Payment System and Security
- Various kinds of fraud in banking
- Introduction to Cyber Crime
- Overview on Cyber Law & Cyber Cell
- Cyber Fraud Helpline

Module 3: Cryptography and Ethical Hacking

- Introduction to Cryptography
- Public Key Infrastructure (PKI)
- Scanning and Information Gathering
- Open-source intelligence (OSINT)
- Man in the Middle (MITM) Attacks
- Password Cracking and Countermeasures
- Denial of Service and Countermeasures
- Steganography
- E-Mail Security

Module 4: Network and Infrastructure Security

- Introduction to Network Security and L2/L3 Attacks
- Network Security Control
- Intrusion Detection System (IDS)
- Understanding SOC

Module 5: Vulnerability Assessment and Penetration Testing

- Vulnerability Assessment and Exploring OWASP
- Introduction to Penetration Testing and VAPT Tools

Module 6: Cyber Forensics

- Introduction to Digital Forensics
- Digital Forensics & Acquisition
- File & Disk Analysis
- Memory Forensics
- System & Network Forensics
- Logs & Reporting

Module 7: Project Work

- Problem Definition and Architectural Development
- Requirement Analysis
- Security Server Selection
- Configuring Server
- Final Design & Deployment Phase
- Testing Phase

Module 8: Employability Skills

- Career Development & Goal Setting
- Essential Digital Skills
- Getting ready for Apprenticeship & Jobs