

नेशनल इंस्टीट्यूट ऑफ इलेक्ट्रॉनिक्स एंड इन्फॉर्मेशन 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

“Cloud Computing Associate” (NSQF - Level 4.5)

Mode: ONLINE (Blended)



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Course Prospectus

Name of the Group: Cloud Computing

Course Name: “Cloud Computing Associate”

Course Code: CC181

NSQF LEVEL: 4.5

Duration: 540 Hours, 4 Months

Last Date of Registration: 15-09-2026

Display of Provisional Selection List: 21-09-2026

Payment of first instalment fee: 21-09-2026 to 23-09-2026

Course Start Date: 24-09-2026

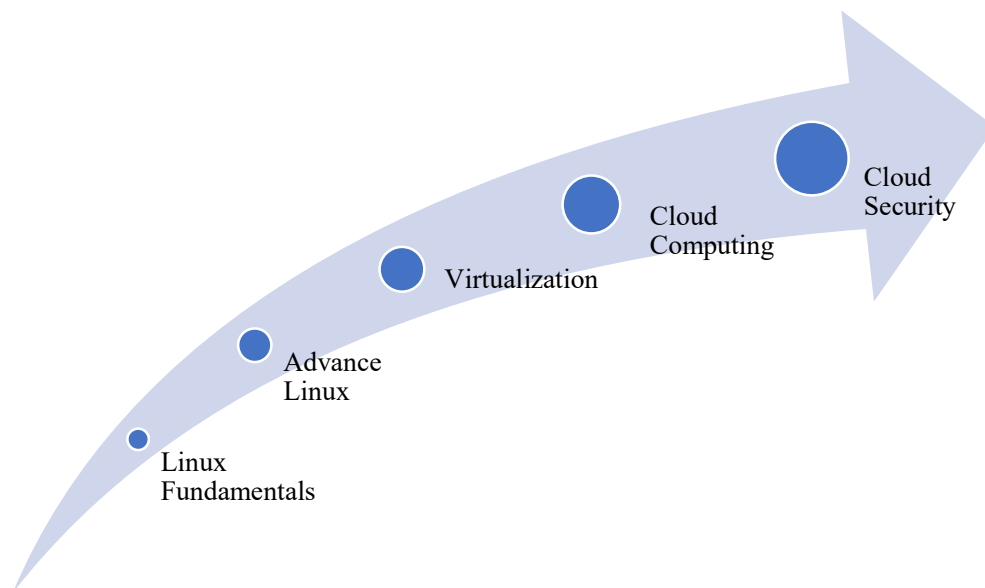
Preamble:

The continuous advancement of cloud technologies has transformed how enterprises deliver, manage, and scale digital services. With increasing dependence on cloud-based infrastructure, there is a rising need for skilled professionals who can implement, manage, and optimize cloud environments. The Cloud Computing Associate plays a critical role in configuring and maintaining cloud platforms, ensuring reliability, scalability, and security across services. This role involves working with deployment models, automation tools, and service orchestration while supporting cloud governance, cost optimization, and resource provisioning. The Cloud Computing Associate couple technical knowledge and operational needs to maintain efficient, resilient, and future-ready cloud ecosystems.

Objective of the Course:

The Course is 540 Hrs. (4 Months) program aimed at molding candidates to Skilled System/Cloud Engineer with Cloud Services Administration knowledge to maintain the Systems, Networks and cloud infrastructure in today’s scenario.

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



Course Structure

This course contains total six modules. After completing the first five modules, the students have to do a 30 Hours project using any of the topics studied to earn the Certification.

Sl. No.	Module Name	Duration (in weeks)
1	Conceptualize Operating Systems (Windows and Linux)	2 Weeks
2	Introduction to Network Management	2 Weeks
3	Implementing Virtualization and Basics of Cloud Computing	2 Weeks
4	Conceptualizing Advance Linux	2 Weeks
5	Managing Cloud Architecture with OpenStack	1 Week
6	Emphasizing Cloud Computing Services	1 Week
7	Conceptualizing Docker Containers	1 Week
8	Understanding Cloud Security	1 Week
9	Employability Skills	1 Week
10	OJT/Project	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/-	23-09-2026
2	14,750.00	Nil/-	18-11-2026
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 above 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 UG ● Pursuing 1st year of UG and continuous education ● Pursuing 3rd year of 3-year diploma after 10th and continuous education ● Completed 3-year diploma after 10	NA
2.	● Completed 2nd year of 2 year diploma after 12th ● Pursuing 2nd year of 2- year diploma after 12 and continuous education	NA
3.	Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass	1.5 Years Relevant Experience

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.

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: 15th September 2026

Registration Procedure

All interested candidates are required to fill the Registration form online with registration fee before **15th September 2026** with all the necessary information.

Selection Criteria of candidates

The selection to the course shall be based on the following criteria:

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 **11-09-2026** 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 their document on registration portal for online verification.
 - Original copies of Proof of Age, Qualifying Document (Consolidated Mark sheet or Course Completion Certificate), 10th and 08th 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)** on or before **23-09-2026** 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 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, 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: Placement assistance is provided to students who qualify our courses.

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

Important Dates

- **Last Date of Registration: 15-09-2026**
- **Display of Provisional Selection List: 21-09-2026**
- **Payment of first instalment fee: 21-09-2026 to 23-09-2026**
- **Course Start Date: 24-09-2026**
- **Payment of second instalment fee: within 18-11-2026**

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 scheme is as follows:

Theory (Each Question will carry 1 mark) Duration (in Min): 90		Practical			Internal Assessment (Marks)	Major Project/ Dissertation		Total
Papers	No. of Questions /Paper	Papers	Duration (Min)	Marks /Paper		No. Of Projects	Marks	
2	100	1	90	90	30	1	30	350

Theory Papers

- Theory 1 – Cloud Computing Associate – paper I
- Theory 2 – Cloud Computing Associate – paper II

Practical Papers

- Practical 1 – Cloud Computing Associate

Means of Assessment					
	Theory	Practical	Internal Assessment	Major Project/ Dissertation	
No of Papers	02	01	01	01	
Marks Each Paper	100	90	30	Presentation	Projects
				15	15
Total Marks	200	90	30	30	
				350	

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

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Detailed Syllabus

1. Conceptualize Operating Systems (Windows and Linux)

- Overview of Windows
- Installation of windows
- Exploring Windows
- Overview of Linux
- Installation of Linux
- Exploring Linux

2. Introduction to Network Management

- Introduction to Networking
- Exploring Networking Devices
- Learning TCP/IP
- Learning IP Addressing

3. Advanced Linux Server Administration

- Configuring DNS Server
- Configuring Web Server with Virtual Hosting
- Configuring MySQL Server
- Configuring Mail Server
- Configuring File Servers

4. Fundamentals of Virtualization

- Concept of Virtualization
- Knowledge of Virtualization Tools
- Types of Hypervisors
- Introduction to Containerization & Docker
- Container Orchestration using Docker swarm

5. Basics of Cloud Computing Services

- Concept of Cloud Computing
- Cloud Computing types – SaaS, PaaS, IaaS
- Cloud Computing Models – Public Cloud, Private Cloud
- Setting up Private Cloud using bare metal hypervisors

6. Cloud Infrastructure using Openstack

- Introduction and overview to Openstack
- Setting up Private cloud using Openstack
- Openstack services – Horizon, Nova, cinder, neutron

7. Cloud Security

- Cloud Security Best Practices
- Cloud Security Auditing and Monitoring
- Standards and policies to secure Services

8. Employability Skills

- Career Development & Goal Setting
- Essential Digital Skills
- Getting Ready for apprenticeship & Jobs

9. Project

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