

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

Advanced Program in Cloud Computing

Mode: ONLINE (Blended)



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Course Prospectus

Name of the Group: ISM

Course Name: Advanced Program in Cloud Computing

Course Code: IS903

Duration: 420 Hours, 12 Weeks

Last Date of Registration: 13-04-2023

Display of Provisional Selection List: 14-04-2023

Course Start Date: 17-04-2023

Preamble:

Cloud Computing has revolutionized the way businesses operate by providing flexible, scalable, and cost-effective computing resources. As more companies move their operations to the cloud, the demand for skilled cloud professionals continues to grow. This course on cloud computing aims to equip learners with the knowledge and skills needed to design, deploy, and manage cloud-based solutions.

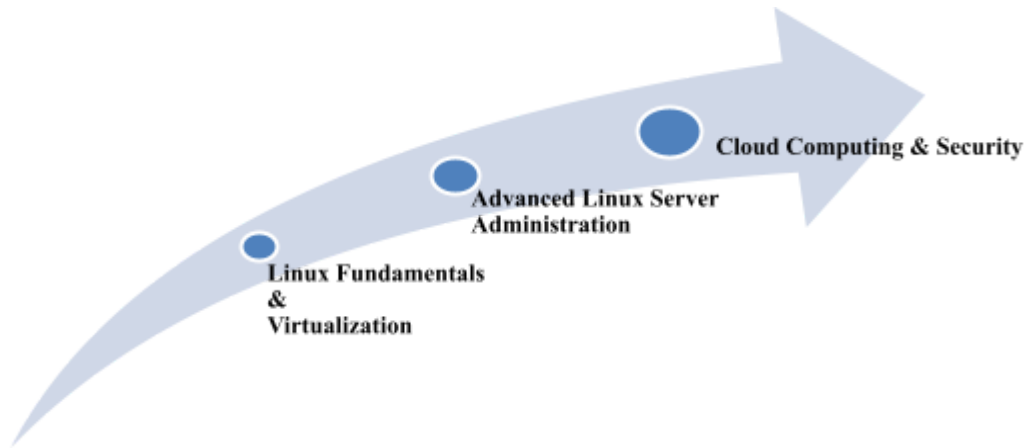
Objective of the Course:

The Course is 420 Hrs. (6 Weeks) program aimed to provide students with a comprehensive understanding of cloud computing, including its concepts, principles, and practices. By the end of the course, students should be able to design, deploy, and manage cloud-based solutions that meet the needs of organizations. Students will also gain practical experience with cloud platforms.

Outcome of the Course:

In this Course, Participants will have gained a thorough understanding of cloud computing concepts, including deployment models, service models, and the benefits and drawbacks of cloud computing. This course will help to prepare participants to take on roles such as cloud architects, cloud engineers, and cloud administrators.

Full Flow of Course:



Course Structure: This course contains a total of six modules. After successful completion of the six modules, the candidates will be awarded certification.

IS 901	Module Name	Duration (in Weeks)
1.	Linux Fundamentals	2 Weeks
2.	Containerization	2 Weeks
3.	Advanced Linux Server Administration	2 Weeks
4.	Cloud Computing	3 Weeks
5.	Cloud Security	1 Weeks
6.	Project	2 Weeks
Total Duration		12 Weeks

Course Contents:

Module I Linux Fundamentals

- Introduction to Linux Fundamentals
- Advanced Linux Commands

Module II Containerization

- Configuring Virtual Box
- Configuring VMware
- Configuring KVM Server
- Configuring Xen
- Configuring Hyper-V
- Deploying Vagrant
- Setting Linux Container

Module III Advanced Linux Server Administration

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

Module IV Cloud Computing

- Introduction to Cloud Computing
- Types of Cloud Services
- Introduction to SaaS Cloud
- SaaS Cloud Deployment with Open Source Tools
- Introduction to PaaS Cloud
- PaaS Cloud Deployment

Module V Cloud Security

- Access Control Types
- Cryptography and Algorithm Analysis
- Configuring Secure DNS Server
- Configuring Secure Web Server
- Configuring Secure Mail Server
- Configuring Secure File Server
- Cloud Monitoring
- Cloud Auditing
- Cloud Automation
- Cloud Security Best Practices
- Cloud Standards

Module VI Project

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

Course Fees:

Registration fee is **Rs.1000** /-. (Adjustable with Course Fee)

Course fee is **Rs. 13,750/- (Inclusive of GST 18%)**

Total Fee - 14,750/- (Including GST)

**GST is Applicable as per Govt. Norms GST (currently it is 18%).*

Registration Fee – Refund Policy

(Non-Refundable if a 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 the new date is not convenient for the student.
- ✓ Course cancelled.

Eligibility:

- ✓ B.Sc/BCA/B.E/B.Tech (Computer Science/Electronics/IT) or any degree with PGDCA or equivalent.

Number of Seats: 100 (One Hundred) - Total

How to Apply

Candidates can apply online on our website <http://reg.nielitchennai.edu.in>. Payment towards non-refundable registration fee can be paid through any of the following modes:

- ✓ Online transaction: Account No: 31185720641 Branch: Kottur (Chennai), IFSC 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: 13th April, 2023

Registration Procedure

All interested candidates are required to fill the Registration form online with Course fees before **13th April, 2023** 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 and availability of seats.

- ✓ The first list of Provisionally Selected Candidates will be published on NIELIT Chennai website (www.nielit.gov.in/chennai) on **14-04-2023** 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 candidates have to upload their documents on the registration portal for online verification.

Admission: All provisionally selected candidates whose documents are verified and paid the fees 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 the 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 has completed the process of admission or discontinuing the course in between. No certificate shall be issued for the classes attended.

Course Timings: This program is a practical oriented one and hence there shall be more lab than theory classes. The classes 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: Ramprasath S, Mobile: 8608565776

Contact Person: Yatish Kumar Appu P, Mobile: 9841535405

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.

Important Dates

- ☐ **Last Date of Registration: 13-04-2023**
- ☐ **Display of Provisional Selection List: 14-04-2023**
- ☐ **Course Start Date: 17-04-2023**

Certification

- ✓ Certification Body: Examination Section, NIELIT Chennai
- ✓ Certificates will be issued after successful completion of all the modules.