



## National Institute of Electronics and Information Technology

(An ISO 9001:2015 certified Organization)

Ministry of Electronics and Information Technology

Government of India

# Online Course Prospectus

# Cloud Computing

## Course Description

This course gives enthusiastic persons an insight into the basics of Cloud Computing and virtualization including some advances in the same domain. Cloud Computing is one of the fastest growing domain from a while now. After attending this course the attendees will be able to take the decision how they can migrate over it to make their career brighter.

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OR

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## Who can attend?

This course is designed for beginners, fresh graduates who are passionate to make career in the field of Cloud Computing.

## Course Content

- ✓ Cloud Computing Concepts
- ✓ Introduction to Virtualization and its Role
- ✓ Cloud Insights
- ✓ Cloud Architecture- Layers and Models
- ✓ Green Cloud Computing
- ✓ Cloud Simulators- CloudSim

## Prerequisite

Basic knowledge of Computers and Internet.

## Duration

4 Weeks (without project) / 6 Weeks (with project)

The internship/industrial training programme includes about 40 Hrs of intensive interactive instructor-led online sessions and about 60 Hrs of practical assignments that student can perform at their end. In some training programmes, the facility of virtual lab can also be extended subject to availability. The six weeks programme includes two weeks (20 Hrs.) of project that student is required to develop and a presentation is to be made by student (in Online mode) to the faculty.

## Certificate

e-Certificate will be issued to each participant after completion of the training. Participant needs to maintain minimum 75% attendance during the online classes and is required to score minimum 50% marks in the online test in order to successfully complete the course.

## Minimum Requirements

- ❖ Attendees must have a computer system with a good Internet connection.
- ❖ Computer System Configuration – Windows

## Course Coordinator

**Mr. Kailash Chandra Joshi**

Ph: 8171627088

[Email : haridwar@nielit.gov.in](mailto:haridwar@nielit.gov.in)

## Day Wise Schedule

Day	Topic	Day	Topic	Day	Topic
Day #01	Introduction to Cloud Computing, Cloud Components	Day #02	Essential Characteristics – On-Demand Self-Service, Broad Network Access, Location Independent, and Other.	Day #03	Historical Developments of Cloud Computing
Day #04	Comparison of Cloud Computing Service with Traditional IT Service	Day #05	Cloud Computing Architecture, Layers In Cloud Architecture	Day #06	Software as a Service, Platform as a Service, Infrastructure as a Service
Day #07	Features Of SaaS, PaaS, IaaS and their Benefits	Day #08	Overview of Service Providers And - Amazon Web Services (AWS), Microsoft Azure, etc.	Day #09	Cloud Applications, Scientific Applications Business and Consumer Applications, etc.
Day #10	Challenges and Risks In Adoption of Cloud Computing Services	Day #11	Cloud Deployment Model: Public, Private, Community Hybrid Clouds	Day #12	Advantages And Future Scope of Cloud Computing
Day #13	Introduction to Virtualization, Role of Virtualization in Cloud Computing	Day #14	Types of Virtualization	Day #15	Pros and Cons of Virtualization
Day #16	Introduction of Green Cloud Computing,	Day #17	Introduction to Simulator, Understanding CloudSim	Day #18	CloudSim Architecture, Understanding Working Platform for CloudSim
Day #19	Demonstration of CloudSim	Day #20	Assignment		

## How to Apply

Interested candidates may apply online on the link: <http://nielit.gov.in/haridwar/content/online-courses> after submitting the Course Fee in following account:

Name : NIELIT Haridwar  
 Account No. : 12922122001331  
 IFSC Code : PUNB0129210  
 Bank Name : Punjab National Bank  
 Branch : SIDCUL Haridwar

**NOTE:** Copy of transaction slip is required to be uploaded at the time of filling online form. Candidate may keep a copy of the same for future reference.

## Terms and Conditions

1. In case, any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.
2. In case, the online course is cancelled/postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.



**NIELIT Haridwar** is the Regional Centre of NIELIT in the state of Uttarakhand and is situated in SIDCUL Haridwar. It is well known for the advanced training programmes in the areas of Future Skills such as **Cloud Computing, Machine Learning, Artificial Intelligence, Internet of Things, MATLAB, Big Data, Embedded Systems etc** in addition to the various **National Skill Qualification Framework (NSQF)** aligned long-term and short-term courses in Electronics & Information Technology. The Centre has **MOUs** with various prestigious institutions and Universities of Uttarakhand for academic collaboration, technical support, summer/industrial training and internships of the students. The Centre provides a conducive learning environment with the state-of-the-art infrastructure and expert faculties.

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