Information Booklet cum Syllabus
Of
Cloud Computing Training Program

April 2025

National Institute of Electronics and Information Technology
An Autonomous Scientific Society under
Ministry of Electronics and Information Technology, Government of India

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CONTENTS

1. About Course

This 2-day Cloud Computing Webinar is designed to introduce participants to the fundamental concepts of cloud computing and its real-world applications. The webinar provides practical insights into cloud service models, deployment models, virtualization, and leading cloud platforms. Participants will gain foundational knowledge of cloud infrastructure, storage, security, and cloud-based services used widely in industry today. The program is suitable for students and beginners who want to explore opportunities in cloud technologies.

2. NIELIT

National Institute of Electronics and Information Technology, NIELIT, (Erstwhile DOEACC Society) is an autonomous scientific society of the Ministry of Electronics & Information Technology, Government of India. The Society is registered under the Societies Registration Act, 1860. NIELIT was set up to carry out Human Resource Development and related activities in the area of Information, Electronics & Communications Technology (IECT). NIELIT is engaged both in Formal & Non-Formal Education in the areas of IECT besides development of industry-oriented quality education and training programmer in the state-of-the-art areas. NIELIT has endeavored to establish standards to be the country's premier institution for Examination and Certification in the field of IECT. It is also one of the National Examination Body, which accredits institutes/organizations for conducting courses in IT and Electronics in the non-formal sector.

3. Objective of the Course

The course aims to:

- Introduce participants to cloud computing fundamentals
- Explain service models such as IaaS, PaaS, and SaaS
- Provide an understanding of public, private, and hybrid clouds
- Familiarize learners with leading cloud platforms
- Build awareness of career opportunities in cloud technologies

4. Job Roles of the Course

- Cloud Support Associate
- Cloud Operations Executive (Trainee)
- Cloud Infrastructure Assistant
- IT Support Executive (Cloud Environment)
- Junior Cloud Administrator (Entry-Level)
- Cloud Intern

5. Eligibility

10th /12th/Graduate/Post Graduate and basic knowledge of Computer programming or NIELIT O/A Level Courses

6. Total duration of the Course: 2 Days / 04 Hours

Course Content.

Module 1: Introduction to Cloud Computing (1 Hour)
Evolution of Computing (Traditional vs Cloud), What is Cloud Computing, Characteristics of Cloud, Advantages & Challenges, Real-world Applications

Module 2: Cloud Service & Deployment Models (1 Hours)
IaaS, PaaS, SaaS, Public Cloud, Private Cloud, Hybrid Cloud, Community Cloud, Comparison of Models

Module 3: Cloud Infrastructure & Virtualization (1 Hours)
Basics of Virtualization, Virtual Machines & Hypervisors, Cloud Storage Concepts, Data Centres

Module 4: Overview of Cloud Platforms & Security (1 Hour)
Introduction to AWS, Microsoft Azure & Google Cloud, Basic Cloud Architecture, Cloud Security Concepts, Identity & Access Management (IAM), Career Path in Cloud Computing