

**INTRODUCTION TO CLOUD COMPUTING**

**COURSE CODE: MOOCCSE-A04**

**DURATION: 06 Weeks.**

**Course Prerequisites:**

Basic knowledge of Computer

**Learning Outcomes:**

1. Learn general Cloud Computing Concepts.
2. Gain and understand the fundamental systems on which the cloud is based.
3. Build knowledge from beginner level.
4. You will learn about the various cloud service models & deployment models of cloud computing.

**Course Description:**

You will learn general cloud computing concepts and this cloud computing full course will provide you with everything you need to know about cloud computing. Starting from introduction of cloud computing, why cloud computing came to existence, Service models of cloud computing & we will also cover cloud storage & cloud security. Even though this course does not require any prior cloud computing.

**COURSE DETAILS**

**MODULE 1: (Introduction)**

**TOPIC 1: (Introduction of Cloud Computing)**

Lecture 1.1: (What is Cloud Computing?)

Lecture 1.2: (Why Cloud Computing?)

**MODULE 2: (Deployment Models)**

**TOPIC 1: (Introduction of Deployment Model & Types)**

Lecture 1.1: (Deployment Models (Public Cloud, Private Cloud, Hybrid Cloud & Community Cloud))

**MODULE 3: (Service Models)**

**TOPIC 1: (Introduction & Types of Service Models)**

Lecture 1.1: (Introduction & Infrastructure as a Service(Iaas))

Lecture 1.2: (Platform as a Service (Paas))

Lecture 1.3: (Software as a Service (Saas))

Lecture 1.4: (Iaas vs. Paas vs. Saas)

**MODULE 4: (Cloud Computing Architecture & Components)**

**TOPIC 1: (Cloud Computing Architecture)**

Lecture 1.1: (What is Cloud Computing Architecture?)

Lecture 1.2: (Important Components of Cloud Computing)

Lecture 1.3: (Essential Characteristics of Cloud Computing)

**TOPIC 2: (Challenges of Cloud Computing)**

Lecture 2.1: (Most common challenges of Cloud Computing)

**MODULE 5: (Cloud Storage)**

**TOPIC 1: (Introduction of Cloud Storage)**

Lecture 1.1: (What is Cloud Storage?)

Lecture 1.2: (Types of Cloud storage)

Lecture 1.3: (Benefits of Cloud storage adoption)

**MODULE 6: (Cloud Security and Career Opportunities)**

**TOPIC 1: (Cloud Security)**

Lecture 1.1: (What is Cloud Security?)

Lecture 1.2: (How cloud security works?)

Lecture 1.3: (Measures & Controls in Cloud Security)

Lecture 1.4: (Facts about Cloud Computing Security)

**TOPIC 2: (Career Opportunities in Cloud Computing & Cloud Comparison)**

Lecture 2.1: (Career opportunities in Cloud Computing)

Lecture 2.2: (Cloud Comparison)