

# Gurukul Educational And Research Institute

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## CLOUD COMPUTING (BASIC LEVEL)

**Duration: 6 Months Eligibility: 12th Pass / Basic Computer  
Knowledge Mode: Theory + Practical+ Project**

### **Module 1 – Introduction to Cloud**

#### **Computing**

- What is Cloud Computing?
- Traditional vs Cloud System
- Types of Cloud (Public, Private, Hybrid)
- Cloud Service Models (IaaS, PaaS, SaaS)
- Advantages of Cloud
- Real - Life Examples (Google Drive, AWS, etc.)

### **Module 2 – Cloud Platforms Overview**

- Introduction to AWS
- Introduction to Microsoft Azure
- Introduction to Google Cloud
- Cloud Accounts Creation (Basic Concept)

#### **Dashboard Overview**

### **Module 3 – Virtualization Basics**

What is Virtual Machine (VM)?

- Hypervisor Concept
- Server vs Virtual Server
- Creating Virtual Machine (Demo)
- Storage in Cloud

### **Module 4 – Cloud Storage & Security**

- Cloud Storage Types
- File Upload & Management
- Backup & Recovery
- Basic Cloud Security
- Data Protection
- Password & Access Control

### **Module 5 – Networking in Cloud**

- Basics of Networking
- IP Address
- Domain & Hosting
- DNS Concept
- Load Balancer (Basic Idea)

## Module 6 – Introduction to DevOps (Basic)

- What is Devops ?
- CI/CD Concept &
- Git Hub Basics
- Deployment Basics

### Practical Work

- Create Cloud Account (Demo)
- Upload & Manage Data
- Create Virtual Machine
- Setup Basic Website on Cloud
- Final Project & Viva

### Examination Pattern

Theory – 50 Marks

Practical – 50 Marks

Project – 50 Marks

Viva – 50 Marks

### Career Opportunities

- Cloud Support Associate
- Cloud Executive
- IT Support (Cloud) J
- unior Cloud Engineer
- Technical Support Executive

