



Academic Year: 2022-23

Skill Oriented Course-I

S.No.	Sem & Section	Title	Date (From -to)
1.	III SEM AIM	AWS Cloud Computing Foundations	12/12/2022 to 17/12/2022

Skill Oriented Course-II

S.No.	Sem & Section	Title	Date (From -to)
1.	IV SEM AIM	AWS Academy Solutions Architect	27/02/2023 to 04/03/2023



AWS-Cloud Computing Foundations

Topics Covered:

- Exercise 1.** Introduction to Cloud Computing & Account Registration in AWS
- Exercise 2.** AWS Global Architecture
- Exercise 3.** Demo on Servers, How to launch instances(Servers) in Cloud.
- Exercise 4.** AWS Security Groups
- Exercise 5.** AMIs and Volumes in AWS
- Exercise 6.** To Configure Amazon Virtual Private Cloud (VPC)
 - 6.1. To Create your own VPC
 - 6.2. To Create public subnet
 - 6.3. To Create private subnet
 - 6.4. Create an Internet gateway and attach to your VPC
 - 6.5. Create a Public Routing Table, associate subnet and add routing rules
 - 6.6. Create Private Routing Table, associate subnet and add routing rules
 - 6.7. To Connect to Public subnet instance
 - 6.8. To Connect to Private subnet instance
 - 6.9. To Connect linux instance in private subnet
 - 6.10. To Connect linux instance in public subnet
- Exercise 7.** VPC Peering
- Exercise 8.** NAT Gateway
- Exercise 9.** To Assign Elastic IP address
- Exercise 10.** Application Deployment in Cloud using EC2
- Exercise 11.** Load balancer concepts on Cloud
- Exercise 12.** Storage Concepts
 - 12.1. EC2 Store
 - 12.1.1. Instance Store
 - 12.1.2. EBS(Elastic Block Store)
 - 12.2. S3(Simple Storage Service)
 - 12.3. NFS/EFS
 - 12.4. Glacier
- Exercise 13.** Static Website Hosting using WINSOFT-Tool
- Exercise 14.** Database creation using RDS



[AWS Academy Solutions Architect](#)

Topics Covered:

Module 1 - Welcome to AWS Academy Cloud Architecting

Module 2 - Introducing Cloud Architecting

Module 3 - Adding a Storage Layer

Module 4 - Adding a Compute Layer

Module 5 - Adding a Database Layer

Module 6 - Creating a Networking Environment

Module 7 - Connecting Networks

Module 8 - Securing User and Application Access

Module 9 - Implementing Elasticity, High Availability and Monitoring

Module 10 - Automating Your Architecture

Module 11 - Caching Content

Module 12 - Building Decoupled Architectures

Module 13 - Building Microservices and Serverless Architectures

Module 14 - Planning for Disaster

Module 15 - Bridging to Certification