Amazon Web Services (Associate)

☐ **Course Details:**

- Fundamentals of Cloud Computing
- Introduction to Cloud computing.
- Cloud Environment Architecture
- Cloud Computing Models.

☐ **Infrastructure & Networking**

- Introduction to AWS.
- AWS Global Infrastructure
- Introduction to Network Switches & Virtual Private Cloud (VPC)
- VPC's & Subnets
- Internet gateways, VPC peering & NAT gateways
- IP addressing in AWS.
- Understanding AWS security groups
- Launching our first EC2 instance
- EC2 instance type & pricing Models

☐ **Storage**

- Introduction to Block & object storage mechanism
- Introduction to Elastic Block Storage (EBS)
- EBS Snapshots
- Instance Store Volumes
- Introduction to Simple Storage Service (S3)
- Features of S3

☐ **Elastic Load Balancers**

- Understanding High Availability Configuration
- ELB Configuration

☐ **Elasticity**

- Auto Scaling

☐ **Identity and Access Management (IAM)**

- Understanding the IAM policies
- IAM User, IAM Policy, and IAM Role

☐ **Relational Databases**

- Introduction to relational databases
- Creating our first database structure in MySQL
- Getting started with DynamoDB

☐ **Domain Name System (DNS)**

- Introduction to DNS
- Understanding DNS record
- Introduction to Route53

☐ AWS Lambda and API

- Getting started with AWS Lambda.
- Introduction to API
- Understanding the working of API
- Building our API with API gateway

☐ Building Scalable Applications

- Introduction to Message Brokers
- Understanding SQS
- Understanding Simple Notification Service (SNS)

☐ The DevOps Section Monitoring

- Understanding Cloud Watch
- Auditing AWS environmental with Cloud Trail