

ICT366 AWS Certified Solutions Architect – Associate

Level: 3

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

Synopsis:

ICT366 AWS Certified Solutions Architect – Associate covers the fundamentals of building IT infrastructure on AWS. The course teaches students how to optimize use of the AWS Cloud by understanding AWS services and how they fit into cloud-based solutions. By the end of this course, students will gain the skills and practice to build scalable, reliable, and highly available cloud infrastructure with great flexibility and resiliency. This course will prepare students to take the AWS Certified Solutions Architect – Associate level AWS Certification exam.

Topics:

- Introduction to Cloud Architecting
- Adding a Storage Layer
- Adding a Compute Layer
- Adding a Database Layer
- Creating a Networking Environment
- Connecting Networks
- Securing User and Application Access
- Implementing Elasticity, High Availability, and Monitoring
- Automating Customized Architecture
- Caching Content
- Building Decoupled Architectures, Microservices and Serverless Architectures
- Planning for a Disaster

Learning Outcome:

- Illustrate architectural decisions based on AWS architectural principles and best practices
- Apply AWS services to make infrastructure scalable, reliable, and highly available
- Use AWS managed services to enable greater flexibility and resiliency in an infrastructure
- Examine the AWS Well-Architected Framework to improve architectures that use AWS solutions
- Evaluate cloud infrastructure to increase cloud performance
- Recommend the strategies to reduce cost of a cloud infrastructure built on AWS

Assessment Strategies (Evening Class):

| Components | Description | Weightage Allocation (%) |
|-------------------------------|-------------|--------------------------|
| Overall Examinable Components | Online Exam | 100 |
| Total | | 100 |

