

# ICT335 Cloud Computing: Business Case and Technical Models

**Level:** 3

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY REGULAR SEMESTER

## Synopsis:

ICT335, Cloud Computing: Business Case and Technical Models, is meant to provide an overview of the field of Cloud Computing and provide a framework for selecting the optimal combination of cloud technology to meet business requirements. Students will learn the essential characteristics of Cloud Computing, examine why cloud computing is changing IT services across the Internet, and explain how Cloud Computing's flexibility can lower costs, increase service to deliver a new business model for both users and providers of Internet-based services. The framework includes business model drivers, technical theory, and comparison to historical alternatives. In addition, students will build a working technical knowledge of Cloud Computing, including use of virtualization software.

## Topics:

- Introducing Cloud Computing
- Business Economics and Performance Benefits
- Cost Management and Cloud Advisor
- Virtualisation
- Infrastructure-As-A-Service
- Illustrative IaaS Providers
- Platform-As-A-Service
- Illustrative PaaS Providers
- Container and Serverless Computing
- Software-As-A-Service
- XaaS
- Addressing Performance Challenges in Cloud
- Monitoring and Planning for Outages
- Business Continuity and Disaster Recovery
- Cloud Security
- Governance, Compliance, Legal and Ethical Consideration

## Learning Outcome:

- Describe true cloud elements and differentiate cloud types
- Apply business economics to evaluate a cloud provider
- Analyse SaaS, PaaS and IaaS solutions
- Evaluate architecture based on cloud technology
- Assess performance, business continuity and security issues in cloud environments
- Analyse data privacy, compliance and legal issues in the cloud
- Recommend IaaS, PaaS, and SaaS technologies
- Formulate calculation for practicing cloud economics

## Assessment Strategies - Regular Semester (Daytime Class):

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-CLASS QUIZ 3	2
	QUIZ 1	6
	TUTOR-MARKED ASSIGNMENT 1	18
Overall Examinable Components	Written Exam	70
<b>Total</b>		<b>100</b>

\*The information listed is subject to review and change.