

ICT336 Cloud Computing: Standards, Implementation and Security

Level: 3

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

ICT336, Cloud Computing: Standards, Implementation and Security, examines the industry's standards and challenging issues in Cloud Security. Successful operational and business cases will be studied to demonstrate the best practices in the industry. A step-by-step view of how enterprise business can be migrated to a cloud will also be demonstrated. Critical success factors for how to ensure the security of data and governance of the business process can be managed during and after the migration are examined. The role of Cloud Computing standards in helping enterprise to develop SaaS to address business needs is also explained. Real-world examples in social media and smart phone development, including YouTube, Facebook, iPhone and Android will be studied to demonstrate the development process.

Topics:

- Moving data, services and processes to the Cloud
- Federation in the Cloud
- Presence in the Cloud
- Privacy and Its Relation to Cloud-based information System
- Software-as-a-Service Security
- Common Standards in Cloud Computing
- End-User Access to Cloud Computing
- Mobile Internet Devices in the Cloud

Textbooks:

John W Rittinghouse; James F Ransome: Cloud Computing : Implementation, Management, and Security 2010 CRC Press

ISBN-13: 9781439806807-AA

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Learning Outcome:

- Explain the standards in Cloud Computing
- Analyze the security and privacy threats in cloud computing
- Recommend risk management policies and measurements for enterprises
- Develop a cloud migration strategy
- Appraise cloud implementation based on standards
- Prepare a skeleton Request For Quote (RFQ) for cloud services
- Prepare a skeleton Service Level Agreement (SLA) for cloud services
- Develop a Risk Management plan for cloud computing
- Plan for the adoption of Cloud Computing in enterprises

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
QUIZ	9
TUTOR-MARKED ASSIGNMENT	21
Sub-Total	30

Examinable Component	Weightage (%)
Written Exam	70
Sub-Total	70

Weightage Total **100**