

## ICT5253 Cloud Architectures and Solutions

### Unit Description

In this unit, students will expand their knowledge and understanding of cloud architectures and solutions. Students will explore cloud-based data storage including big data applications, virtualisation and container concepts. Security challenges related to the cloud are examined together with different cloud designs and implementations, their advantages and limitations.

<b>Credit Points</b>	8 credit points
<b>Duration</b>	12 weeks (10 teaching weeks and 2 revision and assessment weeks)

### Unit Learning Outcomes

On successful completion of this unit, students will be able to:

1. Critique the fundamental principles and paradigms of cloud computing architectures.
2. Appraise recent technology innovations that enable effective cloud computing.
3. Evaluate the security issues and challenges in cloud computing.
4. Critically review the technological and ethical issues of cloud solutions.
5. Design and implement cloud solutions to enable specific business objectives.