Title: Bachelor of Computing Systems Version: 0.1

FINAL

ISCG7444: Cloud Application Design and Development

Course number: ISCG7444 Level: 7 Credits: 15

ISCG6420

Main programme: BCS Delivery: One Semester (Full-time)

Endorsement: Elective Hours directed: 39
Other programmes: GDCMP Hours selfdirected:

Prerequisites: For BCS: ISCG5421 or Total hours: 150

For GDCMP: ISCG6420 or as approved by the Programme Leader

Co-requisites: N/a Number of weeks: 16 weeks (full-

time)

Restrictions: N/a Entry requirements: N/a

Students are expected to adhere to Unitec's policy on conduct in respect of staff, fellow students, and in the use of resources and facilities.

NZQA Level Descriptor:

	Knowledge	Skills	Application
7	knowledge of a major discipline with	require a command of highly	in planning, resourcing and
	areas of specialisation in depth	specialised technical or scholastic	managing processes
		and basic research skills across a	within broad parameters and
	the analysis, transformation and	major discipline	functions with complete
	evaluation of abstract data and		accountability for determining,
	concepts	involve the full range of procedures in a major discipline	achieving and evaluating personal and/or group outcomes.
	the creation of appropriate responses	are applied in complex, variable and	
	to resolve given or contextual abstract problems	specialised contexts	

Course aim: This course explores the best practices and emerging principles for the design & development of cloud-based applications.

Learning outcomes:

- Develop specialist knowledge and critical understanding of Cloud computing concepts and technologies in order to solve real-world problems.
- Analyse software engineering methods used for designing, developing, and implementing Cloud-based software solutions.
- Investigate cloud-based software development techniques, including types of cloud infrastructure, providers, and cloud-based services in response to requirements specifications.
- Develop a cloud-based application using industry standard tools and techniques.

Topics/Content outline:

Introduction to Cloud computing

Foundations of Cloud Technologies

- · Distributed Computing
- Virtualisation
- · Service Oriented Computing

Cloud Computing Core Concepts

- · Definition of Cloud Computing
- Types of Cloud