Appendix A (Course Descriptors)

ISCG6423: Database Design and Development

Course number: 6423 **Level:6** **Credits: 15**
Main programme: BCS **Delivery:**
Endorsement: **Hours directed: 32.5**
Other programmes: GDCMP **Hours self-directed: 117.5**
Prerequisites: For BCS & GDCMP: ISCG5421 (ISCG5239) and ISCG5423 (ISCG5236) **Total hours: 150**
Number of weeks: 16 weeks
Restrictions: None
Entry requirements: None

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: {chosen from table presented above in section 2]

	Knowledge	*Skills*	*Application*
	The student is able to carry out processes that • require a command of wide-ranging highly specialised technical or scholastic skills • involve a wide choice of standard and non-standard procedures, often in non-standard combinations • specialised knowledge with depth in more than one area	• the analysis, reformatting and evaluation of a wide range of information • the formulation of appropriate responses to resolve both concrete and abstract problems • are employed in highly variable routine and non-routine contexts employing	and applied • in managing processes • within broad parameters for defined activities • with complete accountability for determining and achieving personal and/or group outcomes.

Course aim:
To apply the principles of data management with database technology.

Learning outcomes:

1. Explain the role of a DBMS within a business.
2. Produce a conceptual data model for a given set of requirements.
3. Develop a logical database design for a given set of requirements and for a given conceptual design.
4. Implement a physical database design from a given logical design.
5. Build and test a database application containing forms and reports that demonstrates understanding of how business needs can be met by interaction with a given database
6. Demonstrate understanding of usability issues in Database Management.
7. Explain trends in the use of databases for business problem solving.