ISCG7446: Advanced Data Engineering

Course number:	ISCG7446 **Level:** 7	**Credits:**	15
Main programme:	BCS	**Delivery:**	One Semester
Endorsement:	Elective	**Hours directed:**	32.5
Other programmes:	GDCMP	**Hours self-directed:**	117.5
Prerequisites:	For BCS: ISCG6423 and ISCG6425 For GDCMP: ISCG6423 and ISCG6425	**Total hours:**	150
Co-requisites:	None	**Number of weeks:**	16 weeks
Restrictions:	None		
Entry requirements:			

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

Course aim:
To provide students with advanced knowledge, methods, and techniques required for engineering and managing data and database.

Learning outcomes:

1. Demonstrate an in-depth knowledge and understanding of advanced data engineering and management concepts
2. Identify, analyse, and evaluate advanced data engineering methods, techniques, systems, and tools used in various scenarios
3. Design and implement a solution that can effectively address business and technical requirements in a given context.