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MODULE DESCRIPTOR

Module Title

Data Project Management

Bata i rojeot Management			
Reference	CBM205	Version	1
Created	April 2018	SCQF Level	SCQF 11
Approved	July 2018	SCQF Points	30
Amended		ECTS Points	15

Aims of Module

This module prepares students to scope, develop, and implement data management strategies for data collection, processing, storage, preservation and availability for further processing.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Identify roles, develop teams and implement communication strategies in database projects
- 2 Plan a data management project, analysing and determining resource, priorities and deliverables
- 3 Demonstrate an advanced understanding of different data types and structures
- 4 Design relational and non-relational databases
- 5 Evaluate the most appropriate database platform for a given data management task
- 6 Design, implement and query a database

Indicative Module Content

Roles and responsibilities in data management and sharing. Team management. Project Planning. Assessing risks to project deliverables. Agile methodologies. Structured and unstructured data. Introduction to database programming. Conceptual modelling: an introduction to simple entity-relationship modelling. The relational database model: tables, relationships, keys, joins and normalisation; creating tables using SQL. Database queries: an introduction to SQL queries, including the use of sub-queries. DBMS principles and structure. Relational, graph, and NoSQL databases and use cases. Deciding and applying selection criteria. Practical exercises in database development.

Module Delivery

The module is delivered via online exercises, workshops, industry speakers, case studies and lab tutorials.

	Module Ref:	CBM20	5 v1
Indicative Student Workload		Full Time	Part Time
Contact Hours		72	72
Non-Contact Hours		228	228
Placement/Work-Based Learning Experience [Notional] Hours		N/A	N/A
TOTAL		300	300
Actual Placement hours for professional, statutory or regulatory body			

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Туре:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5, 6
Description:	Design and implementation of a database project solution for an industry-relevant problem scenario to proof-of-concept stage.				ant problem

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The module is assessed by one component: C1 - Coursework - 100% weighting. Module Pass Mark = Grade D (40%)

Module Grade	Minimum Requirements to achieve Module Grade:
Α	70% or above
В	60% - 69%
С	50% - 59%
D	40% - 49%
E	35% - 39%
F	0% - 34%
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements	
Prerequisites for Module	None.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 HARRINGTON, J. L. (2016) *Relational database design and implementation.* Fourth edition. Amsterdam; Boston: Morgan Kaufmann/Elsevier
- 2 KEMPER, C. (2015). Beginning Neo4j. New York: Springer
- 3 LAKE, P. and CROWTHER, P. (2013). Concise Guide to Databases. London: Springer
- 4 PLUGGE, E., MEMBREY, P. and HAWKINS, T. (2010). *The definitive guide to MongoDB.* New York: Apress
- 5 ROCHKIND, M. (2013). Expert PHP and MySQL. New York: Springer