MODULE DESCRIPTOR

Module Title

Modelling with Databases

Reference	CBM203	Version	1
Created	November 2021	SCQF Level	SCQF 11
Approved	July 2018	SCQF Points	15
Amended	June 2020	ECTS Points	7.5

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

None.

Module Delivery

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

Indicative Student Workload	Full Time	Part Time
Contact Hours	36	36
Non-Contact Hours	114	114
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	150
Actual Placement hours for professional, statutory or regulatory body		

Module Ref:	CBM203 v1

ASSESSMENT PLAN

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

Component 1

Type:	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.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The calculation of the overall grade for this module is based on 100% weighting of C1. An overall minimum grade D is required to pass the module.

Module Grade	Minimum Requirements to achieve Module Grade:
A	The student needs to achieve an A in C1.
B	The student needs to achieve a B in C1.
C	The student needs to achieve a C in C1.
D	The student needs to achieve a D in C1.
E	The student needs to achieve an E in C1.
F	The student needs to achieve an F in C1.
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