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MODULE DESCRIPTOR			
Module Title			
Business Intelligence			
Reference	CM3709	Version	1
Created	February 2019	SCQF Level	SCQF 9
Approved	June 2019	SCQF Points	30
Amended		ECTS Points	15

Aims of Module

To provide students with an in-depth knowledge of business intelligence and data warehousing concepts, methods and tools for solving business problems.

Learning Outcomes for Module

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

1	Critically evaluate state-of-the-art business intelligence tools to support decision-making.
2	Compare and contrast different methods of visualising data appropriate to various stakeholders.
3	Compare and contrast different methods for data integration and master data management.
4	Design, implement and evaluate a data warehousing solution for a business problem, including the application of techniques for the extraction, transformation and loading of data from various sources.

Indicative Module Content

Business Intelligence (BI) systems and types of decisions managers face. Data Visualisation and Dashboard Techniques. Mapping data to visual representations; awareness of accessibility issues. Data integration, data federation and data virtualisation. Data lakes. ETL (Extraction, Transformation and Loading). Master Data Management. Multi-Dimensional Data Analysis. Concepts and benefits associated with data warehousing. Architecture of a data warehouse. Tools for Data warehousing.

Module Delivery

The module is delivered in Blended Learning mode using structured online learning materials/activities and directed study, facilitated by regular online tutor support. Workplace Mentor support and work-based learning activities will allow students to contextualise this learning to their own workplace. Face-to-face engagement occurs through annual induction sessions, employer work-site visits, and modular on-campus workshops.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	30	N/A
Placement/Work-Based Learning Experience [Notional] Hours	240	N/A
TOTAL	300	N/A
Actual Placement hours for professional, statutory or regulatory body	240	

ASSESSMENT PLAN

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

Component 1

Type:	Coursework	Weighting:	50%	Outcomes Assessed:	2, 4

Description: This coursework will consist of a business intelligence development exercise.

Component 2

Type:	Practical Exam	Weighting:	50%	Outcomes Assessed:	1, 3

Description: This practical exam will consist of a presentation on aspects of business intelligence within business systems.

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The calculation of the overall grade for this module is based on 50% weighting of C1 and 50% weighting of C2. An overall minimum grade of D is required to pass the module.

		Practical Exam:						
		A	**B**	**C**	**D**	**E**	**F**	**NS**
	A	A	A	B	B	C	E	
	B	A	B	B	C	C	E	
	C	B	B	C	C	D	E	
Coursework:	**D**	B	C	C	D	D	E	
	E	C	C	D	D	E	E	
	F	E	E	E	E	E	F	
	NS	Non-submission of work by published deadline or non-attendance for examination						

Module Requirements

Prerequisites for Module	None, in addition to course entry requirements.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1 SHERMAN R., 2014. Business Intelligence Guidebook: From Data Integration to Analytics. Morgan Kaufmann.

2 SHARDA R., DELEN D. and TURBAN E., 2014. Business Intelligence: A Managerial Perspective on Analytics. 3rd ed. Pearson.

3 KIRK, A., 2016. Data Visualisation, A Handbook for Data Driven Design. Sage Publishing.

4 VAISMAN, A., 2014. Data warehouse systems: design and implementation. Springer.

5 DAMA International., 2017. DAMA-DMBOK: Data Management Body of Knowledge. 2nd Ed. Technics Publications.