MODULE DESCRIPTOR

Module Title

Energy Data Management

Reference	CBM842	Version	1
Created	February 2021	SCQF Level	SCQF 11
Approved	March 2021	SCQF Points	15
Amended		ECTS Points	7.5

Aims of Module

To allow practitioners and stakeholders to explore and critique data and information management requirements across the bulk power generation industry, in the context of business value, impacts and outcomes.

Learning Outcomes for Module

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

1	Evaluate and synthesise the forefront developments and issues in energy data management
2	Communicate to a range of audiences, including peers, senior management and specialists, the business value of energy data management
3	Demonstrate comparative knowledge of data challenges across different elements of the bulk power generation sector
4	Apply critically energy data management knowledge and skills in a variety of complex contexts.

Indicative Module Content

Wind, Nuclear, Oil and Gas Exploration and Production, Refining, Equipment data, Lifecycle data, Asset data, Fourth industrial revolution, Digitalisation

Module Delivery

Online learning.

Indicative Student Workload	Full Time	Part Time
Contact Hours	N/A	24
Non-Contact Hours	N/A	126
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	N/A	150
Actual Placement hours for professional, statutory or regulatory body		

Module Ref:	CBM842 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
Description:	Individual portfolio assessment				

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 an B in C1.
C	The student needs to achieve an C in C1.
D	The student needs to achieve an 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	CB3054 Energy Data Management

INDICATIVE BIBLIOGRAPHY

1	KLETZ, T. and AMOYETTE, P., 2019. What went wrong? Case histories of process plant disasters and how they could have been avoided. 6th ed. Oxford: Butterworth-Heinemann.
2	MORAN, S., 2019. An applied guide to process and plant design. 2nd ed. Amsterdam: Elsevier.
3	MOREIRA DA SILVA, M., 2020. Power and gas asset management. Cham: Springer.
4	PEARSON, S. 1996. Economical management of engineering information. ISA Transactions. 35, pp.3-8.