

MODULE DESCRIPTOR

Module Title

AI and Data Governance

Reference	CMM547	Version	1
Created	October 2024	SCQF Level	SCQF 11
Approved	February 2025	SCQF Points	15
Amended		ECTS Points	7.5

Aims of Module

This module aims to equip students with an understanding of the regulatory, ethical, and organisational governance considerations when collecting, managing, and using data and AI.

Learning Outcomes for Module

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

- 1 Analyse ethical and legal issues in data collection, usage, privacy, and AI technologies.
- 2 Construct data governance frameworks, ensuring data quality, security, and compliance.
- 3 Take responsibility for leading organisational change to build a data-driven culture and effectively implement AI technologies.
- 4 Integrate ethical principles into data-driven decision-making and the use of emerging technologies.
- 5 Synthesise theoretical knowledge to design a comprehensive data governance strategy.

Indicative Module Content

Ethical decision making models relating to the use of data, including in an AI context; data governance framework components and how they interact with the range of data activities; the effect of data quality decisions on data use outcomes; the legal and regulatory environment affecting data collection and use, such as in AI models; the role of standards and their applications for data management and use; communication strategies for effecting organisational change.

Module Delivery

Lectures and seminars are used to deliver the main principles and will be based on extensive use of case studies. Practical sessions are used to acquire practical skills and reinforce knowledge.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	30	30
Non-Contact Hours	120	120
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	150
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

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
Description:	A report addressing data governance knowledge and effective communication skills.				

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 Abraham, R., Schneider, J. and vom Broke, J. (2019) ?Data governance: a conceptual framework, structured review, and research agenda?. *International Journal of Information Management*, 49, pp. 424-438. Available at: <https://doi.org/10.1016/j.ijinfomgt.2019.07.008>.
- 2 MacLennan, A. (2014) *Information governance and assurance: reducing risk, promoting policy*. London: Facet.
- 3 Mahanti, R. (2021) *Data Governance Success: Growing and Sustaining Data Governance*. Singapore: Springer.
- 4 O'Neil, C. (2017) *Weapons of Maths Destruction*. New York: Crown Publishing.
- 5 Plotkin, D. (2014) *Data stewardship an actionable guide to effective data management and data governance*. Waltham, MA: Morgan Kaufmann.
- 6 Seiner, R.S. (2014) *Non-invasive data governance: the path of least resistance and greatest success*. Basking Ridge, N.J: Technics Pub.