MODULE DESCRIPTOR

Module Title

Data Analytics For Decision Making in Health And Social Care

Reference	CMM203	Version	1
Created	October 2023	SCQF Level	SCQF 11
Approved	November 2024	SCQF Points	15
Amended		ECTS Points	7.5

Aims of Module

To enable students to understand how data analytics are used for healthcare decisions.

Learning Outcomes for Module

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

1	Analyse the different types of data and information systems found in healthcare.
2	Appraise the issues, developments and challenges of data, data analytics and digital technologies.
3	Evaluate the key elements and processes required for the practical design of a data implementation strategy.
4	Evaluate how descriptive and predictive data analytic technologies have the potential to add value within the modern healthcare environment.
5	Make an informed judgement on the application of healthcare data analytics for decision-making relating to their area of professional practice.

Indicative Module Content

AI; ethics; bioethics; different types of digital data and information systems; data sources and how data is captured; models for data management strategy, policies and processes; data visualisation, data storage and databases; interrogation of data for healthcare services, trust, transparency, safety, social bias.

Module Delivery

Part-time course - Delivered via Moodle with online tutorials and asynchronous discussions. Full-time course - Blended learning approach of on-campus tutorials supplemented by online learning.

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
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

Type:	Practical Exam	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4, 5
Description:	Online presentation				

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	Morr, C. and Ali-Hassan, H. (2019) Analytics in Healthcare: A Practical Introduction
2	Albright, S. and Winston W. (2020) Business Analytics: Data Analysis and Decision Making. Cengage
3	Crane, A. and Matten D. (2019) Business ethics: managing corporate citizenship and sustainability in the age of globalization. Oxford : Oxford University Press
4	SCOTTISH GOVERNMENT, 2023. Health and social care: data strategy. Edinburgh: Scottish Government.
5	Marckmann, G., Stech, D., Hirchberg, I. (2013) Ethics in Public Health and Health Policy: Concepts, Methods, Case Studies. Dordrecht: Springer Netherlands