Data management	M816

Presentation pattern   November to April

Module description

Data are often an organisation's most valuable asset but data require careful management to ensure the maximum benefit is achieved by the organisation. This module covers the data management principles, practices and technologies required to develop policies, procedures and systems that control, protect, deliver and enhance the value of an organisation's data asset. Students will acquire practical skills in data, database, meta-data and business intelligence management. Among the topics covered are: data analysis and modelling; data quality and security; structured and semi-structured data; relational and non-relational databases; distributed and cloud databases; data warehousing and data mining; NoSQL and 'Big Data'. The module follows the Data Management Association (DAMA) Data Management Body of Knowledge (DMBOK) Functional Framework.

Person specification

The person specification for this module should be read in conjunction with the generic person specification for an associate lecturer at The Open University.

As well as meeting all the requirements set out in the generic person specification, you should have:

- experience of developing strategic policies, procedures and systems for an organisation;
- experience of leading data management adoption or teaching the principles and practices of data management;
- knowledge of data management functions including data architecture, data modelling and design, data storage, document and content management, reference and master data, data integration, business intelligence, and data quality management;
- a business (strategic) level understanding of data governance and data security management;
- awareness of the recent developments and challenges in data management arising from the increased volume and variety of data captured by individuals and organisations in recent years;
- ability to guide students in relating the module materials to their own experience, and willingness to support students in identifying areas of their organisational experience for their continuous assessment;
- An understanding of and experience in using a variety of data management technologies and techniques.

It would be an advantage to have:

knowledge of specialist and emerging technologies for data management including:

- distributed databases;
- cloud databases;
- data warehousing;
- data mining;
- NoSQL databases.

Module related details - a full explanation can be found on the website

Credits awarded to the student for the successful completion of a module:	30
Number of assignments submitted by the student:	3
Method of submission for assignments:	2
Level of ICT requirements:	3
Number of students likely to be in a standard group:	20
Salary band:	4
Estimated number of hours per teaching week:	6