

## **BIS1002 Data and Information Management**

## **Unit Description**

In today's digital age, effective management of data is crucial for organisations to make informed decisions and gain a competitive edge. This unit is designed to provide students with a comprehensive understanding of key concepts and practical skills in the field of data and information management. The unit will start with an introduction to Database Management Systems (DBMS) and progress through conceptual modelling, entity-relationship diagrams, logical database design, and the relational model. The unit will also cover practical aspects, such as physical design, using MySQL databases, data normalisation techniques for enhancing efficiency and focus on SQL for effective database querying. The unit will conclude with insights into data warehousing, providing a holistic understanding of managing data for strategic decision-making.

Credit Points	6 credit points
Duration	12 weeks (10 teaching weeks and 2 revision and assessment weeks)

## **Unit Learning Outcomes**

On successful completion of this unit, students will be able to:

- 1. Understand and evaluate the role of database management systems in information technology applications within organisations.
- 2. Identify organisational requirements for data and develop data models using conceptual data modelling techniques.
- 3. Explain and apply database design techniques for relational database systems.
- 4. Derive a physical design for a database from its logical design.