SBM4102 Data and Information Management

Unit description

This unit provides a solid foundation for the design, implementation and management of database systems. Managing organizational data and information stored in various systems are introduced focusing on the role of data and information management within the firm and developing database management systems. It highlights the skills required to identify and model organizational data and information using data modelling techniques. Topics covered include: logical and physical design of database systems; SQL language and data warehousing. key implementation and management concepts, including building the necessary processes and systems to transform the data and information into meaningful knowledge in several contemporary industrial scenarios and make effective decisions.

This unit is a core unit in the DipBIS and BBIS programs.

Learning outcomes

[ULO1] Explain the implications of business, technical and operational definitions of data and information in Data Base Management Systems (DBMSs).

[ULO2] Identify and describe storage and conceptual process modelling of data, including data standards.

[ULO3] Demonstrate an understanding of the people, processes and standards that govern data.

[ULO4] Explain the importance of data discovery and understanding.

[ULO5] Emphasize the significance of the assessment and cleaning activities needed, to ensure data quality, security and currency.

[ULO6] Describe the role played by data integration and migration activities.

[ULO7] Discuss industry trends and their effects on data and information management in Australian and global contexts.

Summary

Credit Points	6
Courses	DipBIS, BBIS
Total Credit Points	DipBIS: 48 credit points, BBIS: 144 credit points
Pre-Requisites	N/A
Co-Requisites	N/A
Other Requirements	N/A
Unit Level	Core
Duration	14 weeks (12 teaching weeks; 1 study week; 1 final assessment week)
Mode of Delivery	On-campus
Assessment	Quiz: 10%; Applied project: 20%; Applied project -2: 20%; Laboratory Submission: 10%; Examination: 40%

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Prescribed Textbook	Hoffer, J.A., Ramesh, V. & Topi, H. (2013) Modern Database Management, 11th Ed (International), Pearson Education
Expected student workload	Students should expect to spend approximately 8.5 hours per week over 14 weeks on learning activities for this unit. This includes time spent attending scheduled classes, undertaking private study, preparing assessments, and completing examinations.

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