

Unit Code and Title	BIS2002 Systems Analysis and Design
Course(s)	Bachelor of Business Information Systems
Core or Elective	Core: Bachelor of Business Information Systems
Credit Points	6 credit points
Duration	1 standard study period
AQF Level	6
Student Workload	Students should expect to spend approximately 120 hours on learning activities across the study period. This includes time spent attending scheduled classes, undertaking private study, preparing assessments, and completing examinations.
Essential Requirements	N/A
Mode(s) of Delivery	On campus/Online
Pre-Requisites	BIS1001 Foundations of Information Systems

Unit Description

This unit studies the techniques, tools and methods of systems analysis in a business environment. It aims to assist students to develop analytical skills in information requirements analysis, problem identification, feasibility assessment, data modelling, use case analysis, specifications and sociotechnical issues of the systems development life-cycle.

Students will learn user-centred design and task-centred design are fundamental to good systems design. In order to understand these concepts, students will study how to determine user requirements, and demonstrate that understanding through designing web-interfaces. Through case studies and practical examples, students will study the phases in the systems development life cycle (determining the user requirements, developing a systems proposal, designing the system) and apply the key principles to the implementation of system development problems in organisations. The organisational context of systems analysis and design and the iterative nature of the analysis and design process will also be explored.

Unit Learning Outcomes (ULOs)

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

[ULO1] Describe the core processes involved in the System Development Life Cycle (SDLC) for a computer based information system.

[ULO2] Compare and evaluate alternative methodologies used in developing business information systems.

[ULO3] Adapt skills to model and design logical and physical systems using a variety of tools, techniques and methods.

[ULO4] Apply UML notation and modelling to the analysis and design of business information systems.

[ULO5] Describe testing procedures, deployment and maintenance with reference to contemporary IT standards and frameworks.

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