

BIS2002 Systems Analysis and Design

Unit Description

This unit studies the techniques, tools, and systems analysis methods in a business environment. It aims to assist students in developing 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 that user-centred design and task-centred design are fundamental to good systems design. 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, and designing the system) and apply the key principles to implement 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.

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. Describe the core processes involved in the System Development Life Cycle (SDLC) for a computer-based information system.
2. Compare and evaluate alternative methodologies used in developing business information systems.
3. Adapt skills to model and design logical and physical systems using a variety of tools, techniques and methods.
4. Apply UML notation and modelling to the analysis and design of business information systems.
5. Describe testing procedures, deployment, and maintenance with reference to contemporary IT standards and frameworks.