

SBM4201 Systems Analysis and Design

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.

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

Learning outcomes

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

- [ULO1] Demonstrate an understanding of the purpose of information system development and different approaches of system development.
- [ULO2] Identify and briefly describe storage and conceptual process modelling of data, including data standards.
- [ULO3] Demonstrate an understanding of IS project planning and project management techniques.
- [ULO4] Demonstrate a working knowledge of system requirements and user and systems interfaces.
- [ULO5] Be able to conduct system testing, deployment and maintenance.

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%; Case study -1: 20%; Case study -2: 20%; Tutorial Submission: 10%; Examination: 40%
Prescribed Textbook	John Satzinger, Robert Jackson, Stephen Burd, 2015, Systems Analysis and Design in a Changing World, Seventh Edition, CENGAGE Learning, Boston, MA USA

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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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