INFS 2013 SYSTEMS ANALYSIS AND DESIGN

Credit Points 10

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Description This subject introduces the concepts of System Analysis and Design. The study of methodologies and techniques for problem recognition, requirement analysis, business requirements modelling, solution design and data modelling are essential elements of this subject. The Systems Development Life Cycle model is employed as the prime approach to teach the subject, equipping students with the basic skills required for developing models for analysis, design, implementation and solving information systems problems. This subject introduces students to approaches of system development including structured, object oriented and agile. Students are exposed well to system design activities including UI, data, basic system architecture and system processing. The use of drawing tools will be discussed in practical sessions. This subject prepares students for an introductory business analyst role.

School Computer, Data & Math Sciences

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 2 subject

Pre-requisite(s) ACCT 1005 AND COMP 1005

Equivalent Subjects 300131 AND INFS 1007 AND INFS 1006

Assumed Knowledge

Students should have knowledge of the fundamentals of information systems, computer systems, computer applications and information processing.

Learning Outcomes

After successful completion of this subject, students will be able to:

1. Recognise the key role of a systems analyst and describe the generic roles and responsibilities of users, developers and managers within the context of business information systems.
2. Identify the fundamental building blocks and architecture of information systems.
3. Apply the various phases of the System Development Life Cycle, including related documentation and appropriate development approaches and methodologies.
4. Analyse business and system requirements and design a solution for the purposes of producing abstract models based on real business problems.
5. Explain the use and application of drawing tools in the creation of systems analysis and design artefacts.
6. Explain the issues around information systems governance, consumer and information security and professional ethics, including their impact on the perspectives and rights of Indigenous communities.

Subject Content

- Introduction to systems and information.
- Concepts of systems analysis and design.
- The Systems Development Lifecycle (SDLC).
- System Development methodologies.
- Problem definition, statement and documentation.
- Project management concepts such scope, cost, schedule and quality
- Introduction to requirements gathering and analysis using several approaches such as structured, object oriented and agile.
- System Design activities
- Implementation issues.
- Human computer interaction.
- Information systems governance, consumer and information security and professional ethics.
- Systems Development Documentation.

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Portfolio	Short answer descriptions + diagrams + workshop participation	30	N	Individual	N
Quiz	1 hour	20	N	Individual	N
Final Exam	2 hours	50	N	Individual	N

Teaching Periods

Autumn (2025)

Parramatta - Victoria Rd

On-site

Subject Contact

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFS2013_25-AUT_PS_1#subjects)