INFS 1007 SYSTEMS ANALYSIS AND DESIGN (WSTC)

Credit Points 10

Legacy Code 700013

Coordinator Buddhima De Silva (https://directory.westernsydney.edu.au/search/name/Buddhima De Silva/)

Description This unit introduces the concepts of System Analysis and Design. The study of methodologies and techniques for problem recognition, requirement analysis, process modelling and/or data modelling are essential elements of this unit. The Systems Development Life Cycle model is employed as the prime approach to teach the unit, providing students with the basic skills required for analysis and design of logical solutions to information systems problems. The use of Computer Aided System Engineering tools will be discussed in practical sessions.

School Computer, Data & Math Sciences

Discipline Systems Analysis and Design

Student Contribution Band HECS Band 2 10cp

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

Level Undergraduate Level 1 subject

Pre-requisite(s) Students enrolled in 7067 Diploma in Information and Communications Technology Extended must pass LANG 0002 Academic Communication 2 (WSTC Prep) or LANG 0032 English for Tertiary Study 2 (WSTC Prep) or LANG 0039 Introduction to Academic Communication 2 (WSTC Prep) and must pass INFO 0008 Computer Studies (WSTC Prep) before enrolling in this unit

Students enrolled in 7138 Diploma in Information and Communications Technology Extended-ICT 7139 Diploma in Information and Communications Technology Extended 7140 Diploma in Information and Communications Technology Extended–IS and 7141 Diploma in Information and Communications Technology Extended-HIM must pass LANG 0012 Academic Professional Communication (WSTC Prep) and must pass INFO 0001 Academic Skills for ICT (WSTC Prep) and must pass INFO 0010 Information Technology in Business (WSTC Prep) before enrolling in this unit

Equivalent Subjects LGYA 5776 - Introduction to Analysis and Design
INFS 1006 - System Analysis and Design
INFS 1006 - Systems Analysis and Design

Restrictions Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma programs must have passed 40 credit points of preparatory subjects in order to enrol in this subject. Students enrolled in the combined Diploma/Bachelor programs listed below must pass all College Preparatory subjects listed in the program structure before progressing to the Year 2 subjects.

Assumed Knowledge

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

Learning Outcomes

On successful completion of this subject, students should 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. Recall the fundamental building blocks and architecture of information systems.
3. Describe and apply the various phases of the System Development Life Cycle, including related documentation and appropriate project management approaches.
4. Analyse user and system requirements for the purpose of producing abstract models based on real business problems.
5. Explain the use and application of Computer Aided Software Engineering (CASE) Tool in the creation of systems development artefacts.
6. Explain the issues around information systems governance, consumer and information security and professional ethics in regards to their impact on information systems design and operation.

Subject Content

1. Introduction to systems and information.
2. Concepts of systems analysis and design.
3. The Systems Development Lifecycle (SDLC).
4. Problem definition, statement and documentation.
5. Introduction to requirements gathering and analysis using business process, data and object oriented modelling.
6. Implementation issues.
7. Human computer interaction.
8. Project Management.
9. Information systems governance, consumer and information security and professional ethics.
10. 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.

Item	Length	Percent	Threshold	Individual/ Group Task
Portfolio: Progressive individual assessment	A total of 9 hrs mostly during tutorials	30	N	Individual
Intra-Session Exam: Closed book exam	1 hr	20	N	Individual
Final Exam: Closed book exam	2 hrs	50	Y	Individual
Report	Approx 2 hours	40	N	Individual

Prescribed Texts

- Scott, R.T., & Rosenblatt, H.J. (2017). Systems analysis and design, (11th ed.). Boston, MA: Course Technology Cengage Learning.

Teaching Periods

Term 2

Nirimba Education Precinct

Day

Subject Contact Buddhima De Silva (https://directory.westernsydney.edu.au/search/name/Buddhima De Silva/)

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS1007_22-T2_BL_D#subjects)

Term 3

Nirimba Education Precinct

Day

Subject Contact Buddhima De Silva (https://directory.westernsydney.edu.au/search/name/Buddhima De Silva/)

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS1007_22-T3_BL_D#subjects)