هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	**1Systems Analysis and Design**
Course Code:	**IS1003**
Program:	**Computer Information System**
Department:	**Computer Information System**
College:	**Computer Science & Information Technology**
Institution:	**Al-Baha University**
Version:	**T104-V2**
Last Revision Date:	**May 25, 2023**

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	4 Credit Hours (4, 0, 0) (Lecture, Lab, Tutorial) (4 Contact Hours)				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☒	Elective☐			
3. Level/year at which this course is offered:	4th level/ 2nd Year				
4. Course general Description: This course discusses the processes, methods, techniques, and tools that organizations use to determine how they should conduct their business, with a particular focus on how computer-based technologies can most effectively contribute to how business is organized. The scenario-based tasks and sample answers help students develop perception, organization, analysis, problem-solving, and decision-making skills that they can take to the workplace.					
5. Pre-requirements for this course (if any): None					
6. Co- requirements for this course (if any): None					
7. Course Main Objective(s) The main purpose of this course is to teach students how to recognize the processes, methods, techniques, architecture, and tools that organizations use to determine how they should conduct their business. Also, it introduces the modelling techniques for the object (OO modelling) and team-based methods (JAD, RAD, UML, AGILE...). It introduces project management concepts early in the systems development process and explains project management tools and techniques.					

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	40	100%
2.	E-learning	-	-
3.	Hybrid • Traditional classroom • E-learning	-	-
4.	Distance learning	-	-

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	40
2.	Laboratory/Studio	-
3.	Field	-
4.	Tutorial	-
5.	Others (specify)	-
	Total	40

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Recognize the processes, methods, techniques, architecture, and tools organizations use to determine how they should conduct their business.	K1	- Lectures	***Direct Assessment Tool*** Midterm ***Indirect Assessment Tool*** Course Exit Survey
1.2	List the modelling techniques for the object (OO modelling) and team-based methods (JAD, RAD, UML, AGILE, …) (data flow diagram) modelling.	K2	- Lectures	***Direct Assessment Tool*** Midterm Final Exam ***Indirect Assessment Tool*** Course Exit Survey
2.0	Skills			
2.1	Analyze a business case and a system project.	S2	- Lectures - Class work - Assignments - Self-learning exercises	***Direct Assessment Tool*** Midterm Homework Final exam ***Indirect Assessment Tool*** Course Exit Survey
2.2	Design data, process and user interface.	S2	- Lectures - Teamwork	***Direct Assessment Tool*** Final exam Oral Presentation (rubrics) ***Indirect Assessment Tool*** Course Exit Survey

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.3	Explain the development strategies and systems architectures.	S2	- Lectures - Team work	***Direct Assessment Tool*** Midterm Final exam Oral Presentation (rubrics) ***Indirect Assessment Tool*** Course Exit Survey
3.0	Values, autonomy, and responsibility			
3.1	Express self-efficacy through a willingness to problems, learn and take challenges independently.	V1	- Teamwork	***Direct Assessment Tool*** Oral Presentation (rubrics) ***Indirect Assessment Tool*** Course Exit Survey

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Systems Analysis and Design.	4
2	Analyzing the Business Case	4
3	Managing Systems Projects	4
4	Requirements Engineering	4
5	Data and Process Modeling	4
6	Introduction to Object Modeling	4
7	Introduction to Development Strategies	4
8	User Interface Design	4
9	Data Design	4
10	System Architecture and Design Patterns	4
Total		40

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	HomeWorks	Periodically	10%
2.	Midterm Exam	Week 5	20%
3.	Oral Presentation (Rubrics)	Week 8	10%
4.	Final Exam	Week 12	60%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	• Dennis, A., Wixom, B. H., & Roth, R. M. (2021). *Systems Analysis and Design,* 8th Edition. John Wiley & Sons. ISBN: 978-1-119-80378-2.
Supportive References	-
Electronic Materials	• Access to the Saudi Digital Library (SDL). • Using the Learning Management System of the university – Rafid System (https://lms.bu.edu.sa/).
Other Learning Materials	None

2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	• A classroom or lecture hall with whiteboard for 25 students.
Technology equipment (projector, smart board, software)	• A digital image projection system with connection to desktop computer and laptop computer. • High speed Internet connection. • An instructor computer station.
Other equipment (depending on the nature of the specialty)	• None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	• Students • Faculty • Program Leader • Course Coordinator	• Surveys (indirect). • Direct feedback from students. • Comprehensive Course report (where we can find information about teaching difficulties and action plan, …)
Effectiveness of students assessment	• Students • Faculty • Peer Reviewers • Exam Evaluation Committee • Course Coordinator	• Surveys (indirect). • Direct feedback from students. • Exam evaluation by the Exam Evaluation Committee (indirect)
Quality of learning resources	• Students • Faculty • Peer Reviewers • Course Coordinator	• Surveys (indirect) • Course evaluation by Peer Reviewers (indirect).

Assessment Areas/Issues	Assessor	Assessment Methods
		• Comprehensive Course report (where we can find information about difficulties and challenges about learning resources as well as consequences and action plan, …)
The extent to which CLOs have been achieved	• Faculty • Program Leader • Course Coordinator	• Student Results (direct) • Comprehensive Course report (where we can find the CLO assessment results)
Other	None	None

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Curriculum Committee Meeting
REFERENCE NO.	
DATE	May 25, 2023