



Course Descriptor
MIFS304 System Analysis and Design

Proposed Academic Year	2019- 2020	Last Reviewed Academic Year	2019-2020
Course Code	MIFS304	Course Title	System Analysis and Design
Credit hours	03	Level of study	Undergraduate
College / Centre	CoBA	Department	MIS
Co-requisites		Pre-requisites	MIFS101

1. COURSE OUTLINE

[This course is designed to introduce students to the systems analysis and design. The course will educate students and prepare them with the required concepts and skills of systems analysis and design. Students will learn how to conduct information systems analysis and design required systems.]

2. AIMS

[This course aims to:

- 1) introduce students to the nature of systems analysis and design and its components.
- 2) enable students to use modeling techniques for the information systems analysis and design efficient solution for the information systems.
- 3) enable students to design efficient information systems.

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)
Upon successful completion of this course, students will be able to:		
1. Demonstrate an awareness and understanding and practical knowledge and skills related to systems analysis and design.	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based
2. Describe how business objectives could be achieved through systems design techniques and their supporting role.	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based
3. Describe systems possible environments and components	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study



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		Report. Class work Computer based
4. Assess human-computer interaction's design issues and their impact.	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based
5. Awareness of programming modules and their role in investigating, designing and implementing systems	e.g Lectures, Seminars, Group Work, Presentation, Computer Laboratory Work	e.g in-class tests, quizzes exams, Class Presentation, Assignment, Case study Report. Class work Computer based

4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Final	30
Mid	30
Assignment	30
Participation	10
TOTAL	100%

5. ACHIEVING A PASS

Students will achieve **03** credit hours for this course by passing **ALL** of the course assessments [*alternatively, list the compulsory pass assessments**] and achieving a **minimum overall score of 50%**

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

Introduction to Systems Analysis and Design	
Analyzing the Business Case	
Requirements Modeling.	
Data and Process Modeling	
Object Modeling	
User Interface Design	
Data Design	
System Architecture	
Managing Systems implementation	
TOTAL HOURS	48
Plus RECOMMENDED INDEPENDENT STUDY HOURS	24
TOTAL COURSE HOURS	72



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7. RECOMMENDED REFERENCES

Core text/s:

- 1) Systems Analysis and Design (Shelly Cashman Series) 11th Edition by Scott Tilley (Author), Harry J. Rosenblatt (Author)
- 2) Systems Analysis and Design (MindTap Course List) 12th Edition by Scott Tilley (Author)

Library + online resources:

ASU library
ASU online resources (ProQuest and ebrary)
Sultan Qaboos University Library (by agreement)
Open Educational Resources: