

Course Specification

(Bachelor)

Course Title: Introduction to Information Systems

Course Code: 1301 CIS

Program: E-Marketing (intermediate diploma)

Department: Computer and Information systems Unit

College: Applied College

Institution: King Khalid University

Version: 4

Last Revision Date: April 2024

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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

2. Course type

- A. University College Department Track Others
- B. Required Elective

3. Level/year at which this course is offered: (2nd Level)

4. Course general Description:

This course refers to a set of integrated solutions (software and hardware) that organizations use to collect, create, process, and distribute data in order to meet organizational needs for operational management, business development, decision support, and customer interaction. Information Systems are set to play an increasingly critical role in the emerging information society. The course aims are to provide a comprehensive and state-of-the-art overview of information systems used by the various organizations today.

5. Pre-requirements for this course (if any):

NA

6. Co-requisites for this course (if any):

NA

7. Course Main Objective(s):

1. Use of information systems in businesses and other organizations.
2. Provide various dimensions of applied information systems such as social and ethical issues.
3. Review of the technologies for applied information systems infrastructure including databases and networking.
4. Recognize application areas of applied information systems including knowledge management, decisions support, mobile commerce and enterprise systems.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	-	-
2	E-learning	-	-
3	Hybrid	45	100%
		31	70%
	• Traditional classroom	14	30%
	• E-learning		
4	Distance learning	-	-

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3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	3٠
2.	Laboratory/Studio	3٠
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		٦٠

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

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Define applied information systems concepts.	k2	Lectures + Lab	Exams, Assignments, Quizzes
1.2	List the main components of Information Systems.	k1	Lectures + Lab	Exams, Assignments, Quizzes
1.3	Describe the important Hardware and Software tools.	k2	Lectures + Lab	Exams, Assignments, Quizzes
1.4	Describe the Software Development Life Cycle (SDLC).	k2	Lectures + Lab	Exams, Assignments, Quizzes
1.5	Describe various types of information systems and their applications.	k1	Lectures + Lab	Exams, Assignments, Quizzes
2.0	Skills			
2.1	Specify the need of an information system for any organization.	s1 s2	Lectures + Lab	Exams, Assignments, Quizzes
٢,٢٥	Analyze the hardware and software requirement for the implementation of an IS in an organization.	s3 s4	Lab, group discussion	Presentation
	Values, autonomy, and responsibility			
3.1	Demonstrate ethical approach towards the use of information systems and technology.	v1	Lectures, Lab, Case Study	Exams, Assignments and presentation

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Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
3.2	Assess the need of information system or a particular technology for an organization in group.	v1 v3	Lab	Exams, Assignments and presentation

C. Course Content

No	List of Topics	Contact Hours
1.	An introduction to information systems	6
2.	An overview of information systems in organization	4
3.	Hardware: Input, Processing, Output, and Storage devices	4
4.	Software: Systems and Application Software	6
5.	Database Systems and Business Intelligence	4
6.	Telecommunications and Networks as well as Internet, Intranets and Extranets	4
7.	LAB Topics	
8.	Case study 1: Connecting Patient Monitoring Devices to EHRs	4
9.	Case Study 2: Railroads Struggle to Implement Positive Train Control	5
10.	Case Study 3: Vivo-Barefoot Upgrades Technology Infrastructure	6
11.	Case Study 4: FIMS Launches Mobile App to Provide Enhanced Road Side Assistance Services	4
12.	Case Study 5: Mercy's Big Data Project Aims to Boost Operations	3
13.	Case Study 6: Cloud Helps Fight Cancer	4
14.	Case Study 7: Facebook Moves into E-Commerce	3
15.	Case Study 8: The NASA Knowledge Map	3
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz 1	4	5
	Midterm Exam 1	7	10
3.	Practical Assessment	1 to 16	30
4.	Midterm Exam 2	12	10
5.	Quiz 2	14	5



No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
6.	Final Exam	After week 16	40
7.	Total		100%

*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	Principles of Information Systems, 12th Edition, Ralph M. Stair, George Reynolds, ISBN-13: 978-1-285-86716-8, 726 pp, Cengage Learning, 2014.
Supportive References	
Electronic Materials	Course website at Blackboard on https://LMS.kku.edu.sa
Other Learning Materials	All other materials will be made available via course's Blackboard page

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> Lecture Room with enough capacity Chairs Projector/Screen. Laboratories with Computers
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> Laboratories computers with UML software. Projectors, Computer for Theory Classes and Practical Sessions.
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	Course Teacher	Direct
Quality of learning resources	Program Supervisor, Quality Unit	Direct
The extent to which CLOs have been achieved	Course Teacher	Direct
Other	Course Teacher, Quality Unit	Direct

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)





G. Specification Approval

لجنة الخطط والمناهج بالكلية التطبيقية	جهة الاعتماد
٤٥/٥/١	رقم الجلسة
١٤٤٥/١٢/٣ هـ	تاريخ الجلسة

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