Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Computing Department, Community College Dammam
University of Dammam

Course Specifications
(CS)

Fundamental of Information Systems

IS110

Fundamental of Information Systems

Course Specifications

Institution: Dammam University	**Date of Report**
College/Department: Dammam Community College / Information Systems	

A. Course Identification and General Information

1. Course title and code: Fundamental of Information Systems (IS110)
2. Credit hours: 3 (2 Theoretical +2 Practical)
3. Program(s) in which the course is offered.   (If general elective available in many programs indicate this rather than list programs)
4. Name of faculty member responsible for the course
5. Level/year at which this course is offered: 1st Level / Year 1
6. Pre-requisites for this course (if any)   None
7. Co-requisites for this course (if any)
8. Location if not on main campus

9. Mode of Instruction (mark all that apply)

a. Traditional classroom	√	What percentage?	%70
b. Blended (traditional and online)		What percentage?	
c. E-learning	√	What percentage?	%30
d. Correspondence		What percentage?	
f. Other		What percentage?	

Comments:

B. Objectives

1. What is the main purpose for this course?

By the end of this course, the student should be able to:

1. An introduction to the organizational uses of information to improve overall quality.
2. Presentation hardware, software, and related information technology concepts.
3. Providing concepts and skills for the specification and design.
4. Re-engineering of organizationally related systems of limited scope using information technology.
5. To show how information technology can be used to design, facilitate, and communicate organizational goals and objectives.
6. To explain the concepts of individual decision making goal setting, trust worthiness, and empowerment.
7. To show career paths in information system. To present and discuss the professional and ethical responsibilities of the IS practitioner.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

The course aim to introduce student to the basic and topics related to information systems (IS).

1. Topics to be Covered		
List of Topics	**No. of Weeks**	**Contact Hours**
1. Systems concepts	1	2 T + 2 P
2. System components and relationships	1	2 T + 2 P
3. Cost/value and quality of information.	1	2 T + 2 P
4. Competitive advantages of information.	1	2 T + 2 P
5. Specification, design and re- engineering of IS.	1	2 T + 2 P
6. Application versus system software.	1	2 T + 2 P
7. Package software solutions	1	2 T + 2 P
8. Procedural versus non-procedural programming language.	1	2 T + 2 P
9. Object oriented design.	1	2 T + 2 P
10. Database features functions, and architecture.	1	2 T + 2 P
11. Networks and telecommunication systems and applications.	1	2 T + 2 P
12. Characteristics of IS professionals and IS career path.	1	2 T + 2 P
13. Information security, crime, and ethics.	1	2 T + 2 P
14. Practical exercises may include developing macros, designing and implementing user interface and reports.	1	2 T + 2 P
15. Developing a solution using database software.	1	2 T + 2 P

2. Course components (total contact hours and credits per semester)						
	Lecture	**Tutorial**	**Laboratory**	**Practical**	**Other:**	**Total**
Contact Hours	30			30		60
Credit	30			15		45

3. Additional private study/learning hours expected for students per week.	4

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	**Course Teaching Strategies**	**Course Assessment Methods**
1.0	**Knowledge**		
1.1	Understand the fundamentals of Information systems and associated technologies.	Lectures, Class discussions, presentations	Formative (Group assignment, Individual assignment, , Seatwork), Major Exam
1.2	Demonstrate an understanding of the definition, components and relationships, Specification, design and re- engineering of IS .		
2.0	**Cognitive Skills**		
2.1	Explain the specification and design of IS.	Lectures, Class discussions, presentations	Formative (Group assignment, Individual assignment, , Seatwork), Major Exam
2.2	Summarize the database features functions, and architecture.		
3.0	**Interpersonal Skills & Responsibility**		
3.1	Analyze different Package software solutions and developing a solution using database software.	Lectures, Class discussions, presentations	Formative (Group assignment, Individual assignment, , Seatwork), Major Exam
3.2	Analyze the characteristics of IS professionals and IS career path.		
4.0	**Communication, Information Technology, Numerical**		
4.1	Communicate and present results/information effectively	Class room discussions	Formative (Group assignment, Individual assignment, , Seatwork, Presentation), Major Exam
4.2	Work effectively as an individual or team.		
5.0	**Psychomotor**		
5.1	N/A	N/A	N/A

Course Learning Outcomes	Program Learning Outcomes
1. Knowledge	
1.1	**1.1**
1.2	**1.2**
2. Cognitive skills	
2.1	**2.3**
2.2	**2.1 , 2.2**
3. Interpersonal Skills and responsibility	
3.1	**3.1, 3.2**
3.2	**3.3**
4. Communication IT and Numeral Skills	
4.1	**4.2, 4.3**
4.2	**4.1**
5. Psychomotor Skills	
5.1	**N/A**

5. Course Learning Outcomes Mapping Matrix
Identify on the table below the Course Outcomes and Relationship to PLOs

6. Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First Quiz	3	%5
2	Mid-term	8	%20
3	Second Quiz	10	%5
4	Lab	13	%20
5	Attendance/Participation	All weeks	%10
6	Final	17	%40

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- Each group of students is assigned to a member of staff who will be available for help and academic guidance office hours at specific 2 hours on daily basis.

E. Learning Resources

1. List Required Textbooks Ralph, M.Star, " Principles of information systems", Course Technology; 9 edition, 2010.
2. List Essential References Materials (Journals, Reports, etc.) Kenneth E. Kendall, julie E. Kendall, "System Analysis and Design", prentice-hall, 6th ed. 2004.
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) • Blackboard.
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. • CDs accompanied with the text book, power point lectures and essential references.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Classrooms: • Furnished with a large central table or multiple small tables that can be grouped into one central table. • Designed for up to 25 students. • Size the room allowing 1sq meter per seat. Laboratories: • 25 PC's, one for each student.
2. Computing resources (AV, data show, Smart Board, software, etc.) • Smart Board, projector, internet, and whiteboard.
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) • None.

G. Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
• Student questionnaires to be assessed by independent body. • Assessment of course teaching strategies by independent body.

2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor
• Student questionnaires to be assessed by department.

3 Processes for Improvement of Teaching
• Revision of course contents, course specifications, and strategies every 5 years.

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
• Check marking by an independent member of staff of a sample of student work. • Periodic exchange and remarking of a sample of assignments with a member of staff in another institution.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.
• Reviewing student's feedback. • Update text books. • Consulting other top universities course specifications and contents.