



Course Specification of Information System Fundamentals

Course No (.....)

2020/2021

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
Assoc. Prof. Mansour N. Ali	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
Rector of Sana'a University			
Prof. Dr. Qassim Mohammed Abbas			



I. Course Identification and General Information:						
1	Course Title:	Information System Fundamentals				
2	Course Code & Number:					
3	Credit hours:	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		3	-	-	-	3
4	Study level/ semester at which this course is offered:	1 st Year/2 nd Semester				
5	Pre –requisite (if any):	Introduction to Computer				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	IS				
8	Language of teaching the course:	English				
9	Study System	Term based system				
10	Mode of delivery:	Full Time				
11	Location of teaching the course:	Faculty of Computer and Information Technology				
12	Prepared By:	Dr. Mansour N. Ali				
13	Date of Approval					

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II. Course Description:

This is a foundation course that introduces students to the definitions, concepts and tools used in the IS field. It focuses on discussing the business implications of information systems. Topics covered include Business Information Systems, Database Systems and Applications, Telecommunications and Networks, Electronic and Mobile Commerce and Enterprise Systems, and Decision Support Systems.

III. Course Intended learning outcomes (CILOs) of the course		Referenced PILOs (Only write code number of referenced Program Intended learning outcomes)
a.1	Define concepts, theories, and principles about information systems.	A1, A2, A4
a.2	Describe the components and roles of information systems.	A1, A2, A4
b.1	Explore the key features of the e-Commerce, e-Business, and electronic payment systems needed to support e-commerce and m-commerce.	B1, B2
b.2	Investigate how information systems enable and enhance the organization	B1, B2,
c.1	Employ principles and concepts of information systems to solve problems, and/or take opportunities for organizations.	C1, C3
c.2	Operate information systems in the functional areas of business organization.	C2, C3
d.1	Communicate effectively and collaborate with others.	D1
d.2	Engage in life-long self-learning; develop metacognitive skills, and ability to evaluate yourself.	D2

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(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1. Define concepts, theories, and principles about information systems.	<ul style="list-style-type: none"> –Lecture and presentation –Dialogue and discussion. –Self and cooperative learning –Brainstorming. –Problem Solving. 	<ul style="list-style-type: none"> – Quizzes – Homework Assessment – Midterm Exam – Final Exam
a2. Describe the components and roles of information systems.		

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Explore the key features of the e-Commerce, e-Business, and electronic payment systems needed to support e-commerce and m-commerce.	<ul style="list-style-type: none"> – Lecture and presentation –Dialogue and discussion –Self and cooperative learning –Brainstorming. –Problem Solving. 	<ul style="list-style-type: none"> – Quizzes – Homework Assessment – Midterm Exam – Final Exam
b2. Investigate how information systems enable and enhance the organization		

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

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Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1. Employ principles and concepts of information systems to solve problems, and/or take opportunities for organizations.	– Lecture and presentation – Discussion – Self and cooperative learning.	– Quizzes – Homework Assessment – Midterm Exam – Final Exam
c2. Operate information systems in the functional areas of business organization.	– Brainstorming. – Problem Solving.	

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1. Communicate effectively and collaborate with others.	–Discussion –Self and cooperative learning	– Performance observation. – Homework Assessment
d2. Engage in life-long self-learning; develop metacognitive skills, and ability to evaluate yourself.		

IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	An Introduction to Information Systems in Organizations	a1, a2, b2, c1,d1,d2	<ul style="list-style-type: none"> Information Concepts What Is an Information System? 	2w	6

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			<ul style="list-style-type: none"> Computer-Based Information Systems Business Information Systems Systems Development 		
2	Database Systems and Applications	a1,a2,b2,c1,c2,d1,d2	<ul style="list-style-type: none"> Data Management Data Modeling and Database Characteristics Database Management Systems Database Applications 	2w	6
3	Telecommunications and Networks	a1,a2,b2,c1,c2,d1,d2	<ul style="list-style-type: none"> An Overview of Telecommunications Networks and Distributed Processing Use and Functioning of the Internet The World Wide Web Internet and Web Applications Intranets and Extranets 	2w	6
4	Electronic and Mobile Commerce and Enterprise Systems	a1,a2,b1,b2,c1,c2,d1,d2	<ul style="list-style-type: none"> An Introduction to Electronic Commerce Mobile Commerce 	3w	9

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			<ul style="list-style-type: none"> Electronic and Mobile Commerce Applications E-Commerce and M-Commerce Technology Infrastructure An Overview of Transaction Processing Systems Transaction Processing Activities Enterprise Resource Planning 		
5	Information and Decision Support Systems	a1,a2, b2,c1,c2,d1,d2	<ul style="list-style-type: none"> Decision Making and Problem Solving An Overview of Management Information Systems Functional Aspects of the MIS An Overview of Decision Support Systems Components of a Decision Support System Group Decision Support Systems 	2w	6
6	Knowledge Management and	a1,a2,b2,c1,c2,d1,d2	<ul style="list-style-type: none"> Knowledge Management Systems 	3w	9

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	Specialized Information Systems		<ul style="list-style-type: none"> Overview of Artificial Intelligence Overview of Expert Systems Components of Expert Systems Multimedia and Virtual Reality 		
Number of Weeks /and Units Per Semester				14w	42

B - Practical Aspect: (if any)				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1				
Number of Weeks /and Units Per Semester				

V. Teaching strategies of the course:
<ul style="list-style-type: none"> Lectures Discussion Brainstorming Problem solving Self-learning Cooperative learning

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VI. Assignments:

No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Homework	a1, a2, b1, b2,d1,d2	6 th , 12 th	10
2				

VII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Homework	6 th , 12 th	10	10%	a1, a2, b1, b2,d1,d2
2	Quiz1	4 th	5	5%	a1,a2,b1,b2,c1,c2
3	Midterm Exam	7 th	20	20%	a1,a2,b1,b2,c1,c2
4	Quiz2	11 th	5	5%	a1,a2,b1,b2,c1,c2
5	Final Exam	16 th	60	60%	a1,a2,b1,b2,c1,c2

VIII. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

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	1. Ralph M. Stair & George W. Reynolds, 2016, Fundamentals of Information Systems, Eighth Edition, USA, Cengage Learning.
2- Essential References.	
	1. James A. O'Brien, George M. Marakas, 2011, Management information systems, 10 th edition, USA, McGraw-Hill/Irwin. 2. Effy Oz, 2009, Management Information Systems, Sixth Edition, USA, Cengage Learning.
3- Electronic Materials and Web Sites etc.	
	1- https://www.britannica.com/topic/information-system 2- https://study.com/academy/lesson/information-systems-resources-networks-hardware-software-data-people.html

IX. Course Policies:	
Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see: ----- -- The University Regulations on academic misconduct will be strictly enforced. Please refer to ----- ----	
1	Class Attendance: A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic
2	Tardy: For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.
3	Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4	Assignments & Project The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5	Cheating:

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	For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7	Other policies: <ul style="list-style-type: none"> - Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments my given directly to students using soft or hard copy

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Faculty of Computer & Information Technology

Department of Information System

Program of Information System

Course syllabus of Information System Fundamentals

Course No (.....)

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Template for Course Plan (Syllabus)

I. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Mansour N. Ali	Office Hours					
Location& Telephone No.	775450055	SAT	SUN	MON	TUE	WED	THU
E-mail	almarhoob@gmail.com						

II. Course Identification and General Information:						
1	Course Title:	Information System Fundamentals				
2	Course Code & Number:					
3	Credit hours:	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		3	-	-	-	3
4	Study level/ semester at which this course is offered:	1 st Year/2 nd Semester				
5	Pre –requisite (if any):	Introduction to Computer				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	IS				
8	Language of teaching the course:	English/Arabic				
9	Study System	Term based system				
10	Mode of delivery:	Full Time				

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11	Location of teaching the course:	Faculty of Computer and Information Technology
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III. Course Description:

This is a foundation course that introduces students to the definitions, concepts and tools used in the IS field. It focuses on discussing the business implications of information systems. Topics covered include Business Information Systems, Database Systems and Applications, Telecommunications and Networks, Electronic and Mobile Commerce and Enterprise Systems, and Decision Support Systems.

IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:

- a1. Define concepts, theories and principles about information systems.
- a2. Describe the components and roles of information systems.
- b1. Explore the key features of the e-Commerce, e-Business, and electronic payment systems needed to support e-commerce and m-commerce.
- b2. Investigate how information systems enable and enhance the organization
- c1. Employ principles and concepts of information systems to solve problems, and/or take opportunities for organizations.
- c2. Operate information systems in the functional areas of business organization.
- d1. Communicate effectively and collaborate with others.
- d2. Engage in life-long self-learning; develop metacognitive skills, and ability to evaluate yourself.

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V. Course Content:

- Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	An Introduction to Information Systems in Organizations	1 st -2 nd	6
2	Database Systems and Applications	3 rd -4 th	6
3	Telecommunications and Networks	5 th -6 th	6
4	Midterm Exam	7 th	2
5	Electronic and Mobile Commerce and Enterprise Systems	8 th ,9 th ,10 th	9
6	Information and Decision Support Systems	11 th -12 th	6
7	Knowledge Management and Specialized Information Systems	13 th -15 th	9
8	Final Exam	16 th	2
Number of Weeks /and Units Per Semester		16	46

B – Practical Aspect: (if any)

Order	Topics List	Week Due	Contact Hours
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1			
Number of Weeks /and Units Per Semester			

VI. Teaching strategies of the course:

- Lectures
- Discussion
- Brainstorming
- Problem solving
- Self-learning
- Cooperative learning

VII. Assignments:

No	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Homework	a1, a2, b1, b2,d1,d2	6 th , 12 th	10
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IX. Learning Resources:

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3- Electronic Materials and Web Sites etc.

- 1- <https://www.britannica.com/topic/information-system>
- 2- <https://study.com/academy/lesson/information-systems-resources-networks-hardware-software-data-people.html>

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اللجنة الإشرافية			
م.	الاسم	الصفة	التوقيع
١	أ.م.د. عبد الماجد الخليدي	نائب عميد الكلية للشؤون الأكاديمية	
٢	أ.م.د. احمد مجاهد	نائب عميد مركز التطوير الأكاديمي وضمان الجودة	
٣	د. حسين الأشول	ممثل المركز في الكلية	
٤	أ.د. إبراهيم المطاع	نائب رئيس الجامعة للشؤون الأكاديمية	

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