

الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة - صنعاء كلية الحاسوب وتكنولوجيا المعلومات وحدة ضمان الجودة

Course Specification of Systems analysis and Design (II)

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



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Course Specification of Systems Analysis and Design II

I. C	I. Course Identification and General Information:					
1	Course Title:	Systems analysis and Design (II)				
2	Course Code & Number:					
			C.H			TOTAL
3	Credit hours:	Th.	Seminar	Pr	Tr.	
		2	-	2	-	3
4	Study level/ semester at which this course is offered:	3 rd Level -2 nd Semester				
5	Pre –requisite (if any):	Systems Analysis and Design I				
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				
11	Location of teaching the course:	Faculty Techno	•	nputer a	nd Info	ormation
12	Prepared By:	Dr. Ma	nsour N. Al	i		

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40	Date of Approval	
13	Date of Approval	

II. Course Description:

This course covers advanced IS development phases to deliver the final product. Topics covered include the development strategies, systems design phase including user interface design, data design, and system architecture. It also covers the systems implementation phase including application development, installation, and evaluation. The last phase covered is systems support and security, tasks that continue throughout the useful life of the system.

III. Course Intended learning outcomes (CILOs) of the course		Referenced PILOs (Only write code number of referenced Program Intended learning outcomes
a.1	Explain software acquisition alternatives, and software outsourcing options.	A1, A2
a.2	Describe user interface design, data design, and systems architecture design.	A1, A3
a.3	Describe application development, documentation, and evaluation.	A1, A3, A4
b.1	Analyze techniques for transitioning to a new information system.	B1,B3
b.2	Develop training plans for various user groups, and assess system security.	B2, B4
c.1	Construct the physical model of the information system.	C2

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c.2	Implement information technology solutions that enhance organizational performance.	C3
d.1	Communicate effectively with users, stakeholders, and project team during system development.	D2
d.2	Collaborate with other professionals as well as perform successfully at the individual level during system development.	D1

(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- Explain software acquisition alternatives, and software outsourcing options.	presentation –Dialogue and	QuizzesHomeworkAssessment		
a2- Describe user interface design, data design, and systems architecture design.	discussion. -Self and cooperative learning -Brainstorming.	Midterm ExamFinal ExamProject Assessment		
a3- Describe application development, documentation, and evaluation.	–Problem Solving.			

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

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 b1- Analyze techniques for transitioning to a new information system. b2- Develop training plans for various user groups, and assess system security. 	 Lecture and presentation Dialogue and discussion Self and cooperative learning Brainstorming. Problem Solving. 	 Quizzes Homework Assessment Midterm Exam Final Exam
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(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:				
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies		
c1- Construct the physical model of the information system. c2- Implement information technology solutions that enhance organizational performance.	 Lecture and presentation Discussion Self and cooperative learning. Brainstorming. Problem Solving. Project 	 Quizzes Performance observation. Midterm Exam Final Exam Project Assessment Report Assessment 		

(D) Alignment Course Intended Learnin Strategies and Assessment Strategies:	ng Outcomes of Transfera	ble Skills to Teaching
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies

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d1- Communicate effectively with users, stakeholders, and project team during system development.	Self and cooperative learning	Performance observation.Project and
d2 - Collaborate with other professionals as well as perform successfully at the individual level during system development.		report assessment

IV. Course Content: A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Development Strategies	a1,b1,b2,d1	 Introduction Development Strategies Overview The Impact of the Internet Outsourcing In-House Software Development Options The Systems Analyst's Role Analyzing Cost and Benefits The Software Acquisition Process Completion of Systems Analysis Tasks Transition to Systems Design 	2w	6

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2	User Interface Design	a2,c1,c2,d1,d2	 Systems Design Phase Overview What Is a User Interface? Seven Habits of Successful Interface Designers Guidelines for User Interface Design Source Document and Form Design Printed Output Technology Issues Security and Control Issues 	2w	6
3	Data Design	a2,b2,c1,c2,d1,d2	 Data Design Concepts DBMS Components Web-Based Design Data Design Terms Entity-Relationship Diagrams Data Normalization Using Codes Data Storage and Access Data Control 	2w	6
4	System Architecture	a2,b2,c1,c2,d1,d2	 Introduction Architecture Checklist System Architecture: Then and Now Client/Server Designs The Impact of the Internet Ecommerce Architecture Processing Methods Network Models Wireless Networks Systems Design Completion 	2w	6

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5	Managing Systems Implementation	a1,a3,b1,b2,c2,d1,d2	■ Introduction ■ Software Quality Assurance ■ Overview of Application Development ■ Structured Application Development ■ Object-Oriented Application Development ■ Agile Application Development ■ Coding ■ Testing the System ■ Documentation ■ Management Approval ■ System Installation and Evaluation ■ Operational and Test Environments ■ Training ■ Data Conversion ■ System Changeover ■ Post-Implementation Tasks	2w	6
6	Managing Systems Support and Security	a1,b2,c2,d1,d2	 Introduction User Support Maintenance Tasks Maintenance Management System Performance Management System Security Overview Security Levels Backup and Recovery System Obsolescence 	2w	6

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			Future Challenges and Opportunities		
7	Project presentation and discussions	All		2w	6
Numbe	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:

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

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VI.	VI. Assignments:						
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark			
1	Project	All	2 nd -12 th	10			
2	Homework	a1, a2,a3, b1, b2,d1,d2	6 th , 12 th	6			

VII	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 /Projects	2 nd -12 th	16	16%	All		
2	Quiz	4 th	4	4%	a1, a2,c1,c2, d2		
3	Midterm Exam	7 th	20	20%	a1, a2,c1,c2, d2		
4	Final Exam	16 th	60	60%	a1, a2, a3, b1, b2,c1,c2,d2		

VIII. Learning Resources:

- Written in the following order: (Author Year of publication Title Edition Place of publication Publisher).
- 1- Required Textbook(s) (maximum two).
 - 1. Scott Tilley and Harry Rosenblatt, 2017, Systems Analysis and Design, Eleventh

Edition, USA, Cengage Learning.

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2- Essential References.

- 1- Kendall & Kendall, 2014, Systems Analysis and Design, 9th edition, USA, Pearson.
- 2- Alan Dennis, Barbara Haley Wixom, David Tegarden, Elaine Seeman, 2015, Systems analysis & design: an object-oriented approach with UML, Fifth edition, USA, Wiley.

3- Electronic Materials and Web Sites etc.

- 1- https://www.visual-paradigm.com/features/uml-tool/
- 2- https://www.omg.org/training/index.htm

IX. Course Policies:

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The University Regulations on academic misconduct will be strictly enforced. Please refer to ------

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
 - 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.

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: 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 Systems analysis and Design (II)

Course No (.....)

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2020/2021

Template for Course Plan (Syllabus)

I Information about Faculty Member Responsible for the Course:							
Name of Faculty Member				Office	Hour	S	
Location& Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail							

	II. Course Identification and General Information:					
1	Course Title:	Systems Analysis and Design II				
2	Course Code & Number:					
			C.	Н		TOTAL
3	Credit hours:	Th.	Seminar	Pr	Tr.	
			-	-	-	3
4	Study level/ semester at which this course is offered:	3 rd Level -2 nd Semester				
5	Pre -requisite (if any):	Systems Analysis and Design I				
6	Co –requisite (if any):	None				

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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		
11	Location of teaching the course:	Faculty of Computer and Information Technology		

III. Course Description:

This course covers advanced IS development phases to deliver the final product. Topics covered include the development strategies, systems design phase including user interface design, data design, and system architecture. It also covers the systems implementation phase including application development, installation, and evaluation. The last phase covered is systems support and security, tasks that continue throughout the useful life of the system.

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

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

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- **a.1** Explain software acquisition alternatives, and software outsourcing options.
- **a.2-** Describe user interface design, data design, and systems architecture design.
- **a.3** Describe application development, documentation, and evaluation.
- **b.1** Analyze techniques for transitioning to a new information system.
- **b.2** Develop training plans for various user groups, and assess system security.
- **c.1** Construct the physical model of the information system.
- **c.2** Implement information technology solutions that enhance organizational performance.
- **d.1** Communicate effectively with users, stakeholders, and project team during system development.
- **d.2** Collaborate with other professionals as well as perform successfully at the individual level during system development.

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	Development Strategies	1 st -2 nd	6
2	User Interface Design	3 rd -4 th	6

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	Assurance		Assurance
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3	Data Design	5 th -6 th	6
4	Midterm Exam	7 th	2
5	System Architecture	8 th -9 th	6
6	Managing Systems Implementation	10 th -11 th	6
7	Managing Systems Support and Security	12 th -13 th	6
8	Project presentation and discussions	14 th -15 th	6
9	Final Exam	16 th	2
	Number of Weeks /and Units Per Semester	16	46

B – Pra	B – Practical Aspect: (if any)					
Order	Topics List	Week Due	Contact Hours			
1						
	Number of Weeks /and Units Per Semester					

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VI. Teaching strategies of the course:

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

VI	VII. Assignments:						
No	Assignments	Week Due	Mark				
1	Project	All	2 nd -12 th	10			
2	Homework	a1, a2,a3, b1, b2,d1,d2	6 th , 12 th	6			

VIII	VIII. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment		
1	Homework/Projects	2 nd -12 th	16	16%		
2	Quiz	4 th	4	4%		
3	Midterm Exam	7 th	20	20%		

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4	1	Final Exam	16 th	60	60%

IX. 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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Edition, USA, Cengage Learning.

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	Assignments & Project
4	The assignment is given to the students after each chapter; the student has to submit
	all the assignments for checking on time.
	Cheating:
5	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.
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	Plagiarism is the attending of a student the exam of a course instead of another
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′	- Mobile phones are not allowed in class during the examination.
	- Lecture notes and assignments my given directly to students using soft or hard
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جنة الإشرافية				
التوقيع	الصـــفة	الاســم	م.	
	نانب عميد الكلية للشؤون الأكاديمية	أ.م.د. عبد الماجد الخليدي	١	
	نانب عميد مركز التطوير الأكاديمي وضمان الجودة	أ.م.د. احمد مجاهد	4	
	ممثل المركز في الكلية	د. حسين الأشول	1	
	نانب رنيس الجامعة للشؤون الأكاديمية	أ.د. إبراهيم المطاع	٤	

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