

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



Faculty of Computer & Information Technology

Department of Information Technology

Program of Information Technology

Course Specification of Systems Analysis and Design I

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
Ibrahim A. Al-Balatah	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University
			Prof. Dr. Qassim Mohammed Abbas
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Course No (.....)

2020/2021

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
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I. C	I. Course Identification and General Information:					
1	Course Title:	Systems Analysis and Design I				
2	Course Code & Number:					
			C.I	Η		TOTAL
3	Credit hours:	Th.	Seminar	Pr	Tr.	101/12
		2	-	2	-	3
4	Study level/ semester at which this course is offered:	3 rd Level -1 st Semester				
5	Pre –requisite (if any):	None				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	s IS, CS, IT				
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		rmation		

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12	Prepared By:	Dr. Mansour N. Ali
13	Date of Approval	

II. Course Description:

This course introduces students to the concepts and skills of system analysis and design. Topics covered include the systems analysis and design methods, feasibility analysis, fact-finding techniques for requirements discovery; modeling system requirements with use cases, data modeling and analysis, process modeling, object-oriented analysis and modeling using the UML, and the system proposal.

. (Course Intended learning outcomes (CILOs) of the course (maximum 8CILOs)	Referenced PILOS (ONI write code number of referenced Program Intended learning outcomes)
a.1	Describe the concepts of information systems development, various systems development methods, and the role of the system analyst.	A1, A2, A3
a.2	Explain how systems projects get started, how to management IT projects, and how systems analysts conduct a preliminary investigation and feasibility study.	A1, A2, A3
b.1	Determine the requirements that will be used to design and develop the information system.	B1, B2, B3, B4

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b.2	Construct the logical model that will support business operations and meet user needs.	B1, B2, B3, B4
c.1	Use data and process modeling techniques to show how the system transforms data into useful information.	C1, C2, C3
c.2	Use object-modeling techniques with UML to create a logical model.	C1, C2, C3
d.1	Effective communication with users, stakeholders, and project team during fact-finding and user requirements identification.	D2
d.2	Work in a team to analyze and design an information system	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- Describe the concepts of information systems development, various systems development methods, and the role of the system analyst.	 Lecture and presentation Dialogue and discussion. Self and cooperative 	 Quizzes Homework Assessment Midterm Exam Final Exam 		
a2- Explain how systems projects get started, how to management IT projects, and	learning –Brainstorming. –Problem Solving.			

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how systems analysts conduct a preliminary investigation and feasibility study.

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:				
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies		
b1- Determine the requirements that will be used to design and develop the information system.	 Lecture and presentation Dialogue and 	 Quizzes Homework Assessment 		
b2- Construct the logical model that will support business operations and meet user needs.	discussion –Self and cooperative learning –Brainstorming. –Problem Solving. –Labs	– Midterm Exam – Final Exam		

(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- Use data and process modeling techniques to show		

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how the system transforms data into useful information. C2- Use object-modeling techniques with UML to create a logical model.	presentation – Discussion	 Practical Exam and performance observation. Midterm Exam Final Exam Project Assessment Report Assessment
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(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
 d1- Effective communication with users, stakeholders, and project team during fact-finding and user requirements identification. d2- Work in a team to analyze and design an information system 	 Discussion Self and cooperative learning Project Labs 	 Performance observation. Project and report assessment 	

	IV. Course Con	tent:	
	A – Theoretic	cal Aspect:	
Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
Ibrahim A. Al-Balatah	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
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Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Introduction to Systems Analysis and Design	a1,b1,b2,d1	 Introduction What Is Information Technology? Information System Components Business Today Modeling Business Operations Business Information Systems What Information Do Users Need? Systems Development Tools Systems Development Methods The Information Technology Department The Systems Analyst Trends in Information Technology 	2w	4

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Lead of Department		se Dean for Qualit Assurance r. Anwar Al-Shamin		Faculty Dean of Acad	Quality	pment center and Dr.Huda Al.Emad
	3	Managing Systems Projects	a2,b1,d1	 Overview of Project Management Creating a Work Breakdown Structure Identifying Task Patterns Calculating the Critical Path Project Monitoring and Control Reporting Project Management Examples Project Management Software Risk Management 	2w	4
	2	Analyzing the Business Case	a1, a2,b1,d1	 What Is a Business Case? Information Systems Projects Evaluation of Systems Requirements Overview of Feasibility Evaluating Feasibility Setting Priorities Preliminary Investigation Overview 	2w	4

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4	Requirements Modeling	a1,b1,d1	 Managing for Success The Bottom Line Systems Analysis Phase Overview Joint Application Development Rapid Application Development Agile Methods Modeling Tools and Techniques System Requirements Checklist Future Growth, Costs, and Benefits Fact-Finding Olnterviews Other Fact-Finding Techniques Documentation Information Management Software Preview of Logical Modeling 	2w	4
5	Data and Process Modeling	a1,b1,b2,c1,d1	 Overview of Data and Process Modeling Tools Data Flow Diagrams Creating a Set of DFDs 	2w	4

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Numbe	er of Weeks /and	d Units Per Semeste	r	14w	28
7	Project presentation and discussions	All		2w	4
6	Object Modeling	a1,b1,b2,c1,c2,d1	 Overview of Object-Oriented Analysis Relationships Among Objects and Classes Object Modeling with the Unified Modeling Language Organizing the Object Model 	2w	4
			 Guidelines for Drawing DFDs Data Dictionary Process Description Tools Logical versus Physical Models 		

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

Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Ouality
Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
		Rector of Sana'a University
		Prof. Dr. Qassim Mohammed Abbas
	Vise Dean for Quality Assurance Dr. Anwar Al-Shamiri	Assurance



1	System proposal	1w	2	a1,b1,b2,d1,d2
2	Using MS Visio for Business Process Modeling	1w	2	a1, b1,b2,d1,d2
3	Feasibility study and risks management	1w	2	a1,a2, b1,b2,d1,d2
4	Using MS Project for Project Resource Management	1w	2	a2, b1,b2,d1,d2
5	Requirements modeling (FDD)& use case (MS Visio)	1w	2	a1, b1,d1,d2
6	Data and Process Modeling (DFD)	1w	2	a1,b1,b2,c1 ,d1,d2
7	Process Description Tools: Structured English, decision Tables	1w	2	a1,b1,b2,c1 ,d1,d2
8	UML	4w	8	a1,b1,b2,c1 ,c2, d1,d2
	per of Weeks /and ts Per Semester	11	22	All

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course:

VI.	VI. Assignments:								
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark					
1	Project	All	2^{nd} - 12^{th}	10					
2	Homework	a1, a2, b1, b2,d1	10 th	2,5					

	VII. Schedule of Assessment Tasks for Students During the Semester:						
	No.	Assessment Met	hod	Week Due	Mark	Proportion of Final Assessment	Aligned Course
Head of Department		Vise Dean for Quality Assurance	Dean of	f the Faculty	Dea	n of Academic Deve Quali	-
Ibrahim A. Al-Balatah		Dr. Anwar Al-Shamiri	Dr. Nag	gi Al-Shibani		Assoc. Pro	of. Dr.Huda Al.Ema
						Rector of Sana'a Ui	niversity
						Prof. Dr. Qassim Mo	hammed Abbas



					Learning Outcomes
1	Homework /Projects	2 nd -12 th	12.5	12.5%	All
2	Quiz	4 th	2,5	2,5%	a1, a2, b1, b2
3	Midterm Exam	7 th	10	10%	a1, a2, b1, b2,c1,c2
4	Labs	2 nd -12 th	15	15%	All
5	Final Exam	16 th	60	60%	a1, a2, b1, b2,c1,c2

VIII.	Learning Resources:					
• рі	Written in the following order: (Author - Year of publication – Title – Edition – Place of ıblication – Publisher).					
1- Re	quired Textbook(s) (maximum two).					
	 Scott Tilley and Harry Rosenblatt, 2017, Systems Analysis and Design, Eleventh 					
	Edition, USA, Cengage Learning.					
2- E	2- Essential References.					
	 Kendall & Kendall, 2014, Systems Analysis and Design, 9th edition, USA, Pearson. 					

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	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- E	3- Electronic Materials and Web Sites <i>etc</i> .							
	 <u>https://www.visual-paradigm.com/features/uml-tool/</u> <u>https://www.omg.org/training/index.htm</u> 							

	\	/III. Course	Policies:				
		ess otherwise stated, the normal course administration policies and rules of the ulty of Computer and Information Technology apply. For the policy, see:					
	The University Regulations on academic misconduct will be strictly enforced. Please it to						
1 Class Attendance: A student should attend not less than 75 % of total hours of otherwise he will not be able to take the exam and will be consid- failure. If the student is absent due to illness, he/she should be statement from university Clinic				xam and will be considered as exam			
	2 Tardy: For late in attending the class, the student will be initially notified repeated lateness in attending class he will be considered as absent.						
 3 Exam Attendance/Punctuality: 3 A student should attend the exam on time. He is Permitted to attend half one hour from exam beginning, after that he/she will not be pertake the exam and he/she will be considered as absent in exam. 			that he/she will not be permitted to				
4 Assignments & Project The assignment is given to the students after each chapter; the stud submit all the assignments for checking on time.				1			
ad of Department	I	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center a Quality			
orahim A. Al-Balatah]	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.En			

Rector of Sana'a University

Prof. Dr. Qassim Mohammed Abbas



5	Cheating: 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 Technology

Program of Information Technology

Course syllabus of Systems Analysis and Design I

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
Ibrahim A. Al-Balatah	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
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Course No (.....)

2020/2021

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	тни
E-mail	almarhoob@gmail.com						

		II. Course Ider	ntification and (Gene	eral Information:	
	1	Course Title:		Syste	ms Analysis and Design I	
	2	Course Code & Numb	er:			
	3	Credit hours:			C.H	TOTAL
Head of Department		Vise Dean for Quality Assurance	Dean of the Faculty	, De	an of Academic Developmen Quality	nt center and
Ibrahim A. Al-Balatah	1	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani		Assoc. Prof. Dr.H	Iuda Al.Ema
					Rector of Sana'a Universit	У
					Prof. Dr. Qassim Mohamme	d Abbas



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		Th.	Seminar	Pr	Tr.	
		2	-	2	-	3
4	Study level/ semester at which this course is offered:	3 rd Level -1 st Semester				
5	Pre –requisite (if any):	None				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	IS, CS, IT				
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			rmation	

III. Course Description:

This course introduces students to the concepts and skills of system analysis and design. Topics covered include the systems analysis and design methods, feasibility analysis, fact-finding techniques for requirements discovery; modeling system requirements with use cases, data modeling and analysis, process modeling, object-oriented analysis and modeling using the UML, and the system proposal.

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

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

a1- Describe the concepts of information systems development, various systems development methods, and the role of the system analyst.

a2- Explain how systems projects get started, how to management IT projects, and how systems analysts conduct a preliminary investigation and feasibility study.

b1- Determine the requirements that will be used to design and develop the information system.

b2- Construct the logical model that will support business operations and meet user needs.

c1- Use data and process modeling techniques to show how the system transforms data into useful information.

c2- Use object-modeling techniques with UML to create a logical model.

d1- Effective communication with users, stakeholders, and project team during fact-finding and user requirements identification.

d2- Work in a team to analyze and design an information system.

V. Course Content:

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

A – Theoretical Aspect:

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Ouality
Ibrahim A. Al-Balatah	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University
			Prof. Dr. Qassim Mohammed Abbas



Order	Topics List	Week Due	Contact Hours
1	Introduction to Systems Analysis and Design	1 st ,2 nd	4
2	Analyzing the Business Case	3 rd -4 th	4
3	Managing Systems Projects	5 th -6 th	4
4	Midterm Exam	7 th	2
5	Requirements Modeling	8 th -9 th	4
6	Data and Process Modeling	10 th -11 th	4
7	Object Modeling	12 th -13 th	4
8	Project presentation and discussions	14 th -15 th	4
9	Final Exam	16 th	2
	Number of Weeks /and Units Per Semester	16	32

B – Practical Aspect: (if any)				
Order	Topics List	Week Due	Contact Hours	

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1	System proposal	2 nd	2
2	Using MS Visio for Business Process Modeling	3 rd	2
3	Feasibility study and risks management	4 th	2
4	Using MS Project for Project Resource Management	5 th	2
5	Requirements modeling (FDD)& use case (MS Visio)	6 th	2
6	Data and Process Modeling (DFD)	7 th	2
7	Process Description Tools: Structured English, decision Tables	8 th	2
8	UML	9 th -12 th	8
	Number of Weeks /and Units Per Semester	11	22

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VI. Teaching strategies of the course:

- Lectures
- Discussion
- Brainstorming
- Problem solving
- Practical in computer (lab)
- Projects
- Self-learning
- Cooperative learning

V	VII. Assignments:						
No	Assignments	Aligned CILOs (symbols)	Week Due	Mark			
1	Project	All	2 nd -12 th	10			
2	Homework	a1, a2, b1, b2,d1	10 th	2,5			

	VIII. Schedule of Assessment Tasks for Students During the Semester:						
	No.	Assessment Me	thod	Week Due		Mark	Proportion of Final Assessment
Head of Department		Vise Dean for Quality Assurance	Dean of	f the Faculty	Dea	n of Academi	c Development center an Quality
Ibrahim A. Al-Balatah		Dr. Anwar Al-Shamiri	Dr. Nag	gi Al-Shibani		As	soc. Prof. Dr.Huda Al.Ema
						Rector of Sar	na'a University
						Prof. Dr. Qass	sim Mohammed Abbas



1	Homework /Projects	2^{nd} -1 2^{th}	12.5	12.5%
2	Quiz	4th	2,5	2,5%
3	Midterm Exam	7 th	10	10%
4	Labs	2 nd -12 th	15	15%
5	Final Exam	16 th	60	60%

IX.	Learning Resources:					
• рі	• Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).					
1- Re	quired Textbook(s) (maximum two).					
	1. Scott Tilley and Harry Rosenblatt, 2017, Systems Analysis and					
	Design, Eleventh					
	Edition, USA, Cengage Learning.					
2- E	ssential References.					
	1- Kendall & Kendall, 2014, Systems Analysis and Design, 9 th 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- E	lectronic Materials and Web Sites etc.					
	1- https://www.visual-paradigm.com/features/uml-tool/					
	2- https://www.omg.org/training/index.htm					

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	IX. Course Policies:
	ess otherwise stated, the normal course administration policies and rules of the alty of Computer and Information Technology apply. For the policy, see:
	University Regulations on academic misconduct will be strictly enforced. Please refer
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: 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.
	Vise Dean for Quality Dean of the Faculty Dean of Academic Development center Assurance Quality

Head of Department	Vise Dean for Quality	Dean of the Faculty	Dean of Academic Development center and
_	Assurance		Quality
Ibrahim A. Al-Balatah	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University

Prof. Dr. Qassim Mohammed Abbas



	Other policies:
7	- 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

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
Ibrahim A. Al-Balatah	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University
			Prof. Dr. Qassim Mohammed Abbas
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الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة - صنعاء كلية الحاسوب وتكنولوجيا المعلومات وحدة ضمان الجودة



Republic of Yemen Minster of Higher Education and Scientific Research Sana'a University Faculty of Computer & IT Quality Assurance Unit

اللجنة الإشرافية

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التوقيع	الصــــفة	الاســــم	م.
	نائب عميد الكلية للشوون الأكاديمية	أ.م.د. عبد الماجد الخليدي	١
	نائب عميد مركز التطوير الأكاديمي وضمان الجودة	أ.م.د. احمد مجاهد	۲
	ممثل المركز في الكلية	د. حسين الأشول	٣
	نانب رنيس الجامعة للشوون الأكاديمية	أ.د. إبراهيم المطاع	٤

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