

#### **Course Specification of Human Computer Interaction**

Course No ( ..... )

# 2020/2021

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			<b>Rector of Sana'a University</b>
			Prof. Dr. Qassim Mohammed Abbas



I. (	I. Course Identification and General Information:					
1	Course Title:	Human Computer Interaction				
2	Course Code & Number:					
			С.Н			
3	Credit hours:	T h.	Semina r	Pr	Tr.	TOTAL
		3	-	-	-	3
4	Study level/ semester at which this course is offered:	3 <sup>rd</sup> year - 2 <sup>nd</sup> semester				
5	Pre-requisite (if any):	None				
6	Co-requisite (if any):	None				
7	Program (s) in which the course is offered:	Information Technology				
8	Language of teaching the course:	English				
9	Study System	Term Based System				
1 0	Mode of delivery:	Full Time				
1	Location of teaching the course:	Faculty of Computer and Information Technology			ormation	
1	Prepared By:					
1 3	Date of Approval					

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			<b>Rector of Sana'a University</b>
			Prof. Dr. Qassim Mohammed Abbas



## II. Course Description:

In this course, students are introduced to the fundamental concepts, principles, and theories of Human Computer Interaction (HCI), an interdisciplinary area concerned with the study of the interaction between humans and interactive computing systems. HCI teaches students to design, develop, and evaluate user interfaces based on their capabilities of computer technology and the needs of human factors, with an emphasis on usability, interaction paradigms, computer-mediated human activities, and implications to society.

Students design a user interface for a system and implement a prototype based on principles of and research methods in human computer interaction. The course will thus provide a background for students to practice system design, selection, installation, evaluation, and use with the knowledge of human characteristics, interaction styles, use context, task characteristics, and design processes.

II	I. Course Intended learning outcomes (CILOs) of the course (maximum 8CILOs)	Referenced PILOs (Only write code number of referenced Program Intended learning outcomes)
a.1	Understanding of HCI principles that influence a system's interface design, with an understanding of user interface design in general, and alternatives to traditional "keyboard and mouse" computing.	A1, A4, D1
a.2	Gain knowledge and skills to consider how to design interfaces for different environments, people, places, and activities.	A1
b.1	Analyze the local and global impact of models from cognitive psychology to predicting user performance in various HCI tasks and recognize the limits of human performance as they apply to computer operation.	B2
b.2	Analyze and identify user models, user support, organizational issues, and stakeholder requirements of HCI systems.	B4

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			<b>Rector of Sana'a University</b>



c.1	Apply an interactive design process and universal design principles to designing HCI systems.	C2
c.2	Develop skills to design prototypes and come up with methods and criteria for evaluation of the design.	C3, C5
d.1	Work effectively as individual or in small groups on a product design from start to finish will provide you with invaluable team-work experience.	D1
d.2	Communicate effectively in oral and written within working environment when doing HCI project and presentation.	D3

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
<b>a1.</b> Demonstrate understanding of HCI principles that influence a system's interface design, with an understanding of user interface design in general, and alternatives to traditional input/output devices.	Lecture, Discussion	Written exams, oral exams, reports, quizzes.	
<b>A2.</b> Gain knowledge and skills to consider how to design interfaces for different environments, people, places, and activities.	Lecture, Discussion	Written exams, oral exams, reports, quizzes.	

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

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



<b>b1.</b> Analyze the local and global impact of	Interactive	Written exams, oral
models from cognitive psychology to predicting	Lecture	exams, reports,
user performance in various HCI tasks and recognize the limits of human performance as	Presentation	quizzes
they apply to computer operation.	Group discussion	
<b>b2.</b> Identify user models, user support,	Interactive	Written exams, oral
organizational issues, and stakeholder	Lecture	exams, reports,
requirements of HCI systems.	Presentation	quizzes
	Group discussion	

# **(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
<b>c1.</b> Apply an interactive design process and universal design principles to designing HCI systems.	Interactive Lecture, Presentation Group discussion	Reports and projects
<b>c2.</b> Develop skills to design prototypes and come up with methods and criteria for evaluation of the design.	Interactive Lecture Presentation Group discussion	Reports and projects

<b>(D)</b> Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	

ead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University



d1. Work effectively as individual or in small	Presentation	Discussion and oral
groups on a product design from start to finish will provide you with invaluable team-work experience.	Group discussion	exam
d2. Communicate effectively in oral and written	Presentation	Discussion and oral
within working environment when doing HCI project and presentation.	Group discussion	exam

IV.	IV. Course Content:						
	A – Theoretical Aspect:						
Orde r	Units/Topics List	Learnin g Outcom es	Sub Topics List	Numbe r of Weeks	conta ct hours		
1	Introduction to Human- Computer Interaction	a1, a2	<ul> <li>A broad overview of human- computer interaction from practitioner and research perspectives.</li> <li>What interaction design is.</li> <li>Difference between good and poor interaction design.</li> </ul>	1	3		
2	Design and Usability	a1,a2,b 1	<ul> <li>Human error and mistakes</li> <li>Know your user</li> <li>Use of persona, scenarios, and storyboards during the design process</li> </ul>	2	6		
3	The Design Process, Guidelines, Principles, and Theories	a2,b2,c 1	<ul> <li>Interaction Design Basics</li> <li>Design Rules</li> <li>Principles, standards, and guidelines</li> <li>Golden rules and heuristics</li> </ul>	2	6		
4	Human vision and visual displays	c1,c2,d 1	- Visual design and info graphics visualization	2	6		

lead of Department

Vise Dean for Quality Assurance

**Dean of the Faculty** 

Dean of Academic Development center and Quality Assoc. Prof. Dr.Huda Al.Emad

r. Ahmed Al-shalabi

Dr. Anwar Al-Shamiri

Dr. Nagi Al-Shibani

Rector of Sana'a University



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

			<ul> <li>Guidelines for font and reading, color usage, and display structure and layout</li> <li>Some guidelines and grid practices.</li> </ul>		
6	Design Evaluation	b1,b2,d 2	<ul> <li>Expert analysis and user participation evaluation</li> <li>Evaluation Approaches: Cognitive walkthroughs, heuristic evaluation, model based.</li> <li>Lab vs. field studies evaluation</li> <li>User-based evaluation: Observational, query, and direct recording etc</li> </ul>	2	6
7	Interaction Style and Virtual Environments	a2,c2,d 1	<ul> <li>Design process using direct manipulation style</li> <li>Virtual Reality and Augmented Reality Environments</li> </ul>	2	6
8	Interaction Style	a1,b2	<ul> <li>Dialog Boxes, command- line, menus, form-filling and GUIS</li> <li>Good and bad examples of interaction styles</li> </ul>	1	3
9	Interaction Devices	a2,b1,c 2	<ul> <li>Types of touch-based interfaces: Force-feedback and haptic devicesetc.</li> <li>Wearable devices and the miniaturization of computing platforms</li> </ul>	1	3
10	Student Presentation	a1,a2,d 1,d2		1	3
Number of Weeks /and Units Per Semester					42

 

 Iead of Department
 Vise Dean for Quality Assurance
 Dean of the Faculty
 Dean of Academic Development center and Quality

 br. Ahmed Al-shalabi
 Dr. Anwar Al-Shamiri
 Dr. Nagi Al-Shibani
 Assoc. Prof. Dr.Huda Al.Emad

 Rector of Sana'a University
 Prof. Dr. Qassim Mohammed Abbas



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

V. Teaching strategies of the course:
Interactive Lecture
Discussion
Homework
Group discussion
Presentation
Project
Exams

V	VI. Assignments:					
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark		
1	- Short reports about the course concepts	a1,d1	6 <sup>th</sup> , 12 <sup>th</sup>	5%		
2	- Implement a computer-based prototype	a1,a2,c1,	3 <sup>rd</sup>	5%		
3	- Progress report of the individual/team project	a1,a2,d1,d2	4 <sup>th</sup>	5%		

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad

Rector of Sana'a University



4	-Design (Heuristic) Evaluation	a1,a2,b1,c1,c2	10 <sup>th</sup> -15 <sup>th</sup>	5%
	Assignment			
5	-Final team project	All	13 <sup>th</sup>	20%

VII	VII. Schedule of Assessment Tasks for Students During the Semester:						
		Week		Proportion	Aligned Course		
No.	Assessment Method	Due	Mark	k of Final	Learning		
				Assessment	Outcomes		
1	Assignment and Presentation	3 <sup>rd</sup> ,4 <sup>th</sup> , 6 <sup>th</sup> 10 <sup>th</sup> -15 <sup>th</sup>	20	20%	a1,a2,b1,b2,c1,c2,d1,d2		
	resentation	,10 15					
2	Mid-Exam	13 <sup>th</sup>	20	20%	a1,a2,b1,b2,c <sup>1</sup> ,c2,d1		
3	Final-Exam	16 <sup>th</sup>	60	60%	a1,a2,b1,b2,c1,c2,d2		

VIII.	Learning Resources:
• pt	Written  in the following order: ( Author - Year of publication – Title – Edition – Place of ublication – Publisher).
1- Re	quired Textbook(s) ( maximum two ).
	<ol> <li>Sharp, H. Preece, J., and Rogers, Y. (2019). Interaction design: Beyond human computer interaction (5th ed.) John Wiley &amp; Sons Ltd. ISBN 978- 1-119-54730-3.</li> <li>Sharidaman Discourt, Cohen and Leasha (2010). Designing the Hamiltonian start for the start of the start of</li></ol>
	2. Shneiderman, Plaisant, Cohen, and Jacobs. (2010). Designing the User Interface: Strategies for Effective Human-Computer Interaction, 2010, 5th edition. Pearson Addison-Wesley.
2- E	ssential References.
	<ol> <li>J. Preece, Y. Rogers and H. Sharp. (2015). Interaction design: Beyond Human-Computer Interaction, 4th edition, John Wiley &amp; Sons. ISBN 9781119088790</li> </ol>

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
	1155ul ulice		Quanty
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Prof. Dr. Qassim Mohammed Abbas



- 2. Dix, A., Finlay, J., Abowd, G., & Beale, R.– Human-computer interaction, Prentice Hall
- 3. Don Norman, 2013, The design of Everyday things Basic Books.

#### 3- Electronic Materials and Web Sites etc.

- 1. http://www.hcibook.com/e3/plain/about/book/
- 2. <u>http://www.id-book.com/index.php.</u>
- 3. www.baddesign.com

## IX. Course Policies:

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

1	<b>Class Attendance:</b> 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	<b>Tardy:</b> 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	<b>Exam Attendance/Punctuality:</b> 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	<b>Cheating:</b> 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	<b>Plagiarism:</b> 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

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	halabi Dr. Anwar Al-Shamiri Dr. Nagi Al-Shibani	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University



7	



# Faculty of Computer & Information Technology

Department of Information Technology

Program of Information Technology

#### **Course syllabus of Human Computer Interaction**

		•	-
lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University
			Prof. Dr. Qassim Mohammed Abbas
			Rector of Sana'a Universit Prof. Dr. Qassim Mohammed Abba

Course No ( ..... )



# 2020/2021

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

Π.	II. Course Identification and General Information:						
1-	Course Title:	Humar	n Computer	Interact	ion		
2-	Course Number & Code:		•••••				
		C.H				Total	
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.		
		3	-	-	-	3	

lead of Department	Vise Dean for Quality	Dean of the Faculty	Dean of Academic Development center and
	Assurance		Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Rector of Sana'a University



4-	Study level/year at which this course is offered:	3 <sup>rd</sup> year / 2 <sup>nd</sup> semester
5-	Pre –requisite (if any):	None
6-	Co –requisite (if any):	None
7-	Program (s) in which the course is offered	IT, IS and CS
8-	Language of teaching the course:	English
9-	System of Study:	Term Based System
10-	Mode of delivery:	Full Time
11-	Location of teaching the course:	Faculty of Computer and Information Technology

# **III.** Course Description:

In this course, students are introduced to the fundamental concepts, principles, and theories of Human Computer Interaction (HCI), an interdisciplinary area concerned with the study of the interaction between humans and interactive computing systems. HCI teaches students to design, develop, and evaluate user interfaces based on their capabilities of computer technology and the needs of human factors, with an emphasis on usability, interaction paradigms, computer-mediated human activities, and implications to society.

Students design a user interface for a system and implement a prototype based on principle and research methods in human computer interaction. The course will thus provide a background for students to practice system design, selection, installation, evaluation, and u with the knowledge of human characteristics, interaction styles, use context, task character and design processes.

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



IV. I	Intended learning outcomes (ILOs) of the course:
•	Brief summary of the knowledge or skill the course is intended to:
a1.	Understanding of HCI principles that influence a system's interface design, with an understanding of user interface design in general, and alternatives to traditional "keyboard and mouse" computing.
a2.	Gain knowledge and skills to consider how to design interfaces for different environments, people, places, and activities.
b1.	Analyze the local and global impact of models from cognitive psychology to predicting user performance in various HCI tasks and recognize the limits of human performance as they apply to computer operation.
b2.	Analyze and identify user models, user support, organizational issues, and stakeholder requirements of HCI systems.
c1.	Apply an interactive design process and universal design principles to designing HCI systems.
c2.	Develop skills to design prototypes and come up with methods and criteria for evaluation of the design.
d1.	Work effectively as individual or in small groups on a product design from start to finish will provide you with invaluable team-work experience.
d2.	Communicate effectively in oral and written within working environment when doing HCI project and presentation.

# **V. Course Content:**

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

**A** – Theoretical Aspect:

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	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	<ul> <li>Introduction to Human-Computer Interaction</li> <li>A broad overview of human-computer interaction from practitioner and research perspectives.</li> <li>What interaction design is.</li> <li>Difference between good and poor interaction design.</li> </ul>	1 <sup>st</sup>	3
2	2 Design and Usability - Human error and mistakes - Know your user - Use of persona, scenarios, and storyboards		6
3	The Design Process, Guidelines, Principles, and Theories - Interaction Design Basics - Design Rules - Principles, standards, and guidelines - Golden rules and heuristics	4 <sup>th</sup> , 5 <sup>th</sup>	6
4	<ul> <li>Human vision and visual displays</li> <li>Visual design and info graphics visualization</li> <li>Guidelines for font and reading, color usage, and display structure and layout</li> <li>Some guidelines and grid practices.</li> </ul>	6 <sup>th</sup> , 7 <sup>th</sup>	6
5	Mid-Exam	8 <sup>th</sup>	3
6	<ul> <li>Design Evaluation</li> <li>Expert analysis and user participation evaluation</li> <li>Evaluation Approaches: Cognitive walkthroughs, heuristic evaluation, model based.</li> <li>Lab vs. field studies evaluation</li> <li>User-based evaluation: Observational, query, and direct recording etc</li> </ul>	9 <sup>th</sup> , 10 <sup>th</sup>	6
7	Interaction Style and Virtual Environments	11 <sup>th</sup> ,12 <sup>th</sup>	6

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad

Rector of Sana'a University



	<ul> <li>Design process using direct manipulation style</li> <li>Virtual Reality and Augmented Reality Environments</li> </ul>		
8	Interaction Style - Dialog Boxes, command-line, menus, form- filling and GUIS - Good and bad examples of interaction styles	13 <sup>th</sup>	3
9	<ul> <li>Interaction Devices</li> <li>Types of touch-based interfaces: Force-feedback and haptic devicesetc.</li> <li>Wearable devices and the miniaturization of computing platforms</li> </ul>	14 <sup>th</sup>	3
10	Student presentation	15 <sup>th</sup>	3
11	Final-Exam	16 <sup>th</sup>	3
	Number of Weeks /and Units Per Semester	16	48

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

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	bi Dr. Anwar Al-Shamiri Dr. Nagi Al-Shibani	Dr. Nagi Al-Shibani Assoc. Prof. I Rec Prof. Dr. Q	Assoc. Prof. Dr.Huda Al.Emad
			<b>Rector of Sana'a University</b>
			Prof. Dr. Qassim Mohammed Abbas



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

VI. Teaching strategies of the course:
Interactive Lecture
Discussion
Homework
Group discussion
Presentation
Project
Exams

VII.	VII. Assignments:			
No	Assignments	Week Due	Mark	
1	-Short reports about the course concepts	6 <sup>th</sup> , 12 <sup>th</sup>	5%	
2	- Implement a computer-based prototype	3 <sup>rd</sup>	5%	
3	- Progress report of the individual/team project	4 <sup>th</sup>	5%	
4	-Design (Heuristic) Evaluation Assignment	10 <sup>th</sup> -15 <sup>th</sup>	5%	
5	-Final team project	13 <sup>th</sup>	20%	

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			<b>Rector of Sana'a University</b>
			Prof. Dr. Qassim Mohammed Abbas



VIII. Schedule of Assessment Tasks for Students During the Semester:				
Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Assignment and Presentation	3 <sup>rd</sup> ,4 <sup>th</sup> , 6 <sup>th</sup> ,10 <sup>th</sup> -15 <sup>th</sup>	20	20%
2	Mid-Exam	8 <sup>th</sup>	20	20%
3	Final-Exam	16 <sup>th</sup>	60	60%

IX. Learr	ning Resources:	
Written in	the following order: ( Author – Year of publication – Title – Edition – Place of	
publication –	Publisher).	
1- Required	Textbook(s) ( maximum two ).	
1.	Sharp, H. Preece, J., and Rogers, Y. (2019). Interaction design: Beyond	
	human computer interaction (5th ed.) John Wiley & Sons Ltd. ISBN 978-1-119-54730-3	
2.	Shneiderman, Plaisant, Cohen, and Jacobs. (2010). Designing the User	
	Interface: Strategies for Effective Human-Computer Interaction, 2010,	
	5th edition. Pearson Addison-Wesley.	
2- Essential	References.	
1.	J. Preece, Y. Rogers and H. Sharp. (2015). Interaction design: Beyond	
	Human-Computer Interaction, 4th edition, John Wiley & Sons. ISBN	
	9781119088790	
2.	Dix, A., Finlay, J., Abowd, G., & Beale, R.– Human-computer	
	interaction, Prentice Hall	
3.	Don Norman, 2013, The design of Everyday things – Basic Books.	
3- Electronic Materials and Web Sites <i>etc</i> .		
1.	http://www.hcibook.com/e3/plain/about/book/	
2.	http://www.id-book.com/index.php.	
3.	www.baddesign.com	

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Ahmed Al-shalabi Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			Prof. Dr. Qassim Mohammed Abbas



X.	Course Policies:
Unles Facu	ss otherwise stated, the normal course administration policies and rules of the Ity of Computer and Information Technology apply. For the policy, see:
The U	University Regulations on academic misconduct will be strictly enforced. Please refer
1	<b>Class Attendance:</b> 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	<b>Tardy:</b> 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	<b>Exam Attendance/Punctuality:</b> 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	<b>Cheating:</b> 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	<b>Plagiarism:</b> 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	<ul> <li>Other policies:</li> <li>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</li> <li>Mobile phones are not allowed in class during the examination.</li> <li>Lecture notes and assignments my given directly to students using soft or hard copy</li> </ul>

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



		ينة الإشرافية	اللج
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	۴
	نائب رئيس الجامعة للشؤون الأكاديمية	أ.د. إبراهيم المطاع	£

lead of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
r. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
			<b>Rector of Sana'a University</b>
			Prof. Dr. Qassim Mohammed Abbas