



**Jordan University of Science and Technology**  
**Faculty of Computer & Information Technology**  
**Computer Information Systems Department**

CIS381 Human Computer Interaction

First Semester 2020-2021

**Course Catalog**

2 Credit Hours. Course description This course sheds light on developing human-centered organizational information systems that support users' organizational tasks. Human physical, cognitive, and effective characteristics are discussed, as are organizational tasks and context. Such discussions are oriented toward achieving a good fit between human, technology, and tasks within the organizational and business context, for the purpose of improving usability and acceptance of IS. The students will learn several models explaining adoption of technologies including technology specifications, human factors, and environmental factors.

**Text Book**

<b>Title</b>	Interaction design beyond human computer interaction
<b>Author(s)</b>	Yvonne Rogers, Helen Sharp, Jennifer Preece
<b>Edition</b>	4th Edition
<b>Short Name</b>	Textbook
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Dix	Human Computer Interaction	Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale	3rd Edition	

**Instructor**

Name	<b>Mr. Eyad Alshareef</b>
Office Location	PH4 L-1

Office Hours	Sun : 10:30 - 11:30 Sun : 14:30 - 16:30 Mon : 14:00 - 15:00 Tue : 10:30 - 11:30 Wed : 14:00 - 15:00
Email	eyadsd@just.edu.jo

Class Schedule & Room	
Section 1:	Lecture Time: Mon, Wed : 13:00 - 14:00 Room: منصة الكترونية

Teaching Assistant	
(Section 1), Mr. Naser Aldeen Sereihen(Section 1)	

Prerequisites		
Line Number	Course Name	Prerequisite Type
1743410	ClS341 Web Applications Development	Prerequisite / Study
1731121	CS112 Introduction To Object- Oriented Programming	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Interaction design basics	<b>Ch1</b> From <b>Textbook</b>
Weeks 2, 3	Conceptual Models, Metaphors and Interaction types	<b>Ch2</b> From <b>Textbook</b>
Weeks 3, 4	The Human: Perception, auditory, haptic, movement, memory, reasoning, problem solving and emotions	<b>Ch1</b> From <b>Dix</b>
Weeks 4, 5	Emotional Interaction	<b>Ch5</b> From <b>Textbook</b>
Weeks 5, 6, 7	Interface Types	<b>Ch6</b> From <b>Textbook</b>
Week 8	Data Gathering Methods	<b>Ch7</b> From <b>Textbook</b>
Week 9	Data analysis, interpretation and presentation	<b>Ch8</b> From <b>Textbook</b>
Week 10	The process of interaction design	<b>Ch9</b> From <b>Textbook</b>

Weeks 11, 12	Identifying needs and establishing requirements	Ch10 From Textbook
Weeks 13, 14, 15	Design, prototyping and construction	Ch11 From Textbook

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Explain guidelines, principles, and theories influencing human computer interaction. [1SO1, 1SO2]	20%	
Recognize how interactive products could be designed to include human diversity. [1SO2]	15%	
Design interactive products that are usable and bring users joy rather than frustration. [1SO6]	10%	
Conceptualize problems, select an appropriate interface metaphor, and choose the right interface type accordingly. [1SO6]	15%	
Apply established design principles and methodologies to solve HCI problems. [1SO1, 1SO2]	15%	
Design paper prototypes, low-fidelity mock-ups, and high-fidelity prototypes ? mainly mobile - based - and carry out user and expert evaluation of these interfaces. [1SO6]	23%	

Relationship to Program Student Outcomes (Out of 100%)																
A	B	C	D	E	F	G	H	I	J	K	SO1	SO2	SO3	SO4	SO5	SO6
											17.50	32.50				48

Evaluation	
Assessment Tool	Weight
Midterm Exam	30%
Project	20%
Final Exam	50%

Policy	
Attendance	Attendance is very important for the course. In accordance with university policy, students missing more than 20% of total classes are subject to failure. Penalties may be assessed without regard to the student's performance. Attendance will be recorded at the beginning or end of each class.
Homework/Lab	Students are expected to keep up with the material as it is presented and submit assignments on time.
Exams	All exams will be CLOSE-BOOK; necessary algorithms/equations/relations will be supplied as convenient. The date of the Exams will be scheduled later.

Date Printed: 2020-10-26