2023
TP-153

Course Specification

(Bachelor)

Course Title:	Human Computer Interaction
Course Code:	502536-3
Program:	Bachelor in Computer Science
Department:	Department of Computer Science
College:	College of Computers and Information Technology
Institution:	Taif University
Version:	V1.2024
Last Revision Date:	01/02/2024

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (9/5)					
4. Course general Description:					
The term "Human factors" relates to both how people interact with technology, and the ways in which technology can affect people's performance. This course provides an introduction to human factors related to the design of information systems. The emphasis is on the human component of human-computer interaction (HCI), and the process of user-centered design and evaluation. In general, lectures will be interactive, combining in-class discussions with small group problem-solving exercises.					
5. Pre-requirements for this course (if any)**:**					
502435-3					
6. Pre-requirements for this course (if any)**:**					
None					
7. Course Main Objective(s):					
This course aims to gives students an understanding of how the study of human-computer interaction affects the design of interactive systems, hardware and software and improves students' awareness of the issues that determine the usability of an interactive computer system. **.**					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	5	100%
2	E-learning	0	0
3	Hybrid • Traditional classroom • E-learning	0	0
4	Distance learning	0	0

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	45
2.	**Laboratory/Studio**	30
3.	**Field**	0
4.	**Tutorial**	0
5.	**Others (specify)**	0
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Understand the basics of human and computational abilities and limitations.	K1	Lecture Discussion Lab work	Written Exams Assignments, Quizzes Practical Exam
1.2	Understand basic theories, tools and techniques in HCI.	K1	Lecture Discussion Lab work	Written Exams Assignments, Quizzes Practical Exam
2.0	**Skills**			
2.1	Apply appropriate HCI techniques to design systems that are usable by people.	S2	Lecture Discussion Lab work	Written Exams Assignments, Quizzes Practical Exam
2.2	Practice a variety of simple methods for evaluating the quality of a user interface.	S2	Lecture Discussion Lab work	Written Exams Assignments, Quizzes Practical Exam

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.0	**Values, autonomy, and responsibility**			

C. Course Content

No	List of Topics	Contact Hours
1	Introduction : Why Good Design Matters (Overview of Systems Design)	5
2	User-Centered Design Usability Principles	5
3	Human Abilities: - Sensory and Perceptual - Cognitive Processes	5
4	Requirements Gathering and Task Analysis	10
5	Design of Everyday Things	5
6	Graphic Design: Principles and Color Interaction Styles	10
7	Prototyping	5
8	Evaluation Error Handling and Help	10
9	User Modeling	10
10	Specialized Interfaces Advanced Interfaces : Ubiquitous and Pervasive Computing, …	10

Total		**75**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1	Quizzes	3: 6	10%
2	Mid Exam	8	20%
3	Minor project	10	10%
4	Lab Exam	15	20%
5	Final Exam	16	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	**Human-Computer Interaction**, Dix, Finlay, Abowd, and Beale. Prentice Hall, 2004. ISBN-10: 0130461091
Supportive References	**Interaction Design – Beyond Human-Computer Interaction** Preece, Rogers and Sharp, Third Edition,. Wiley, 2011. ISBN-10: 0470665769
Electronic Materials	Presentations and recorded lectures
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	• A Lecture room appropriate for maximum 25 students with a personal computer, a data show and a smart board. • A Lab room appropriate for maximum 15 students with a personal computer, a data show and a smart board.
Technology equipment (projector, smart board, software)	• Lab materials and required software
Other equipment (depending on the nature of the specialty)	•

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	• Students • Faculty members • Coordinator • Council • Curriculum Committees	• Course exit survey • Feedback from Faculty members • Feedback from Course Coordinator • Feedback from council Feedback from Curriculum Committees
Effectiveness of Students assessment	• Students • Faculty members • Coordinator • Council • Curriculum Committees	• Course exit survey • Feedback from Faculty members • Feedback from Course Coordinator • Feedback from council Feedback from Curriculum Committees
Quality of learning resources	• Students • Faculty members • Coordinator • Council • Curriculum Committees	• Course exit survey • Feedback from Faculty members • Feedback from Course Coordinator • Feedback from council Feedback from Curriculum Committees
The extent to which CLOs have been achieved	• Students • Faculty members • Coordinator • Council • Curriculum Committees	• Course exit survey • Feedback from Faculty members • Feedback from Course Coordinator • Feedback from council • Feedback from Curriculum Committees
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**CS COUNCIL**
REFERENCE NO.	**MEETING #11**
DATE	**07/03/2024**