Course Specification
(Bachelor)

Course Title:	**Human Computer Interaction**
Course Code:	**444CIS-3**
Program:	**Information System**
Department:	**Information System**
College:	**Computer Science and Information Systems**
Institution:	**Najran University**
Version:	*Course Specification Version Number*
Last Revision Date:	*Pick Revision Date.*

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3)					
3(2,2,1)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (Level 8/ Year 4)					
4. Course General Description:					
Study of theoretical concepts of human-computer interaction (HCI), design principles for graphical computer interfaces, dimensions and multi-disciplinary nature of human computer interaction, user interface design, user requirements analysis, user modeling, task analysis, general principles in user interface design, principles, rules and models in human-centered design, design guidelines, standards and style guides, dialogue styles, , ergonomics and human factors, usability, toolkits, development environments and user interface management systems, formative and summative evaluation, user interfaces for the web, enhanced human-computer interaction, and advanced issues in human-computer interaction.					
5. Pre-requirements for this course (if any)**:**					
6. Co-requisites for this course (if any)**:**					
7. Course Main Objective(s):					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	75	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	30
3.	**Field**	
4.	**Tutorial**	15
5.	**Others (specify)**	
Total		75

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

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	**Define the theory of basic concepts of human computer interaction that concern human cognition, interfaces and interaction.**	**K1**	**Interactive Lectures, Group Discussions**	**Quiz 1, Mid Exam 1**
1.2	**Describe basic task analysis (why task analysis is at the heart of nearly all HCI activities, using**	**K1**	**Interactive Lectures, Group Discussions**	**Quiz 1, Mid Exam 1**

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	of task analysis in computing-related) and the rules and models of the human centered design in interactive software applications.			
1.3	Determine the usability problems through the development of a model and graphical user interface and to evaluate using a questionnaire.	K2,K3	Lectures, Lab Demonstrations	Quiz 2, Mid Exam 2, Final Lab Exam, Final Exam
2.0	**Skills**			
2.1	Analyze the general features of the graphical user	S1, S4	Lectures, Lab Demonstrations, Group Discussions	Mid Exam 1, Final Lab Exam, Final Exam
2.2	Design good user interfaces which are applicable to different user types.	S1, S2, S5	Lectures, Lab Demonstrations	Quiz 2, Mid Exam 2, Final Lab Exam, Final Exam
2.3	Evaluate the environment and user interface management system	S2	Lectures, Lab Demonstrations	Final Lab Exam, Final Exam
2.4	Develop the GUI programming techniques to solve windows based applications or rea-word problems.	S2, S5	Lectures, Group Discussions	Final Exam
3.0	**Values, autonomy, and responsibility**			
3.1				
3.2				
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Theoretical concepts of human-computer interaction (HCI).	5
2.	Task analysis	5
3.	Ergonomics and human factors	5
4.	Human Centered Design	10
5.	General Principles in interface design.	5
6.	Development environments and user interface management systems, formative and summative evaluation	10
7.	Design guidelines, standards and style guides, dialogue styles, and	5
8.	Usability: Principles, Evaluation	5
9.	Usability Test Process, Web interfaces	10
Total		**75**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz1	3rd week	2%
2.	Theory Assignment 1	5th week	2%
3.	Lab Participation	Full Semester	2%
4.	Midterm Exam-I	6th week	15%
5.	Lab Assessment 1	7th week	5%
6.	Quiz 2	8th week	2%
7.	Lab Assessment 2	9th week	3%
8.	Theory Assignment 2	9th week	2%
9.	Midterm Exam-II	10th week	15%
10.	Theory Assignment 3	11th week	2%
11.	Final Lab Exam		10%
12.	Final Theory Exam		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,** ALAN DIX, JANET FINLAY, GREGORY D. ABOWD, RUSSELL BEALE; 3RD EDITION, PEARSON. PRENTICE HALL

Supportive References	• **Human Computer Interaction,** Panayiotis Zaphiris, Chee Siang Ang, Information Science Reference • Diaper, Stanton, **The Handbook Of Task Analysis For Human Computer Interaction**
Electronic Materials	Microsoft Visual Studio
Other Learning Materials	Martin **G.** Helander, Thomas K. Landauer, Prasad V. Prabhu, Elsevier **Handbook Of Human-Computer Interaction** Elsevier

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	• Lecture Rooms with appropriate number of seats, Projector with Screen and a white board or a smart board. • All the computers in all the laboratories should be installed with the latest version of the required software.
Technology equipment (projector, smart board, software)	• One PC and one projector and data show in the lecture room • Number of PCs according to strength of students in the lab room
Other equipment (depending on the nature of the specialty)	• Microsoft Visual Studio

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Online Course Survey
Effectiveness of Students assessment	Students	Online Course Survey
Quality of learning resources	Peer Reviewer, Course Coordinator	Exam Moderation Process
The extent to which CLOs have been achieved	Faculty, Program Coordinator, Vice Dean and Dean	Answer Scripts Review, Grade Sheet review
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**17th Department Council**
REFERENCE NO.	**14460810-0976-00017**

DATE	**10/02/2025**