



Al-Imam Muhammad Ibn Saud Islamic University
College of Computer and Information Sciences

Course Syllabus [Human-Centered Design and Evaluation]

<i>Course Code</i>	<i>Course Name.</i>	<i>Credit Hours</i>	<i>Lec.</i>	<i>Lab</i>	<i>Prerequisites</i>
IT303	<i>Human-Centered Design and Evaluation</i>	3	2	2	IT300

Course Description:

This course addresses areas such as user and task analysis, human factors, ergonomics, accessibility standards, and cognitive psychology.

Course Topics:

Week	Tentative Schedule
Week 01	Introduction: history of HCI
Week 02	Introduction: What's Involved in Human Computer Interaction
Week 03	User Abilities as Foundation of Effective Design Affordance
Week 04	User Abilities as Foundation of Effective Design Usability Usability principles + assignment
Week 05	Human information processing limitations, human cognitive and sensory limits
Week 06	The computer aspect of Human Computer Interaction [First Exam]
Week 07	User interface design paradigms and User interface design rules
Week 08	Process of interaction design and Design languages + Mid-term exam
Week 09	Process of interaction design and Design languages
Week 10	User modeling and the user profile and Adaptive interfaces [Second Exam]
Week 11	Evaluating usability and Predictive and interpretive evaluation
Week 12	Evaluating usability and Predictive and interpretive evaluation
Week 13	3D User interfaces, augmented reality
Week 14	3D User interfaces, augmented reality
Week 15	Speech recognition and conversational interfaces Multimodal interfaces, perceptual interfaces
Week 16	[Final Exam]

Textbook and Resources:

Main Textbook:

Yvonne Rogers, Helen Sharp, Jenny Preece, Interaction Design: Beyond Human Computer Interaction, 3rd Edition, Wiley, 2011, ISBN-10: 0470665769.

Other Resources

Dix A. et al., Human-Computer Interaction. Harlow, England: Prentice Hall, 2004, ISBN-10: 0130461091.

Project and Assignments

Will be provided during the last weeks.

Grade Distribution

Quizzes	10 %
Midterm Exam	20 %
Assignments	10 %
Lab contribution and Exams	20 %
Final Exam	40 %