



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

**Information Technology**

**Course Syllabus [Human Computer Interaction]**

<i>Course Code</i>	<i>Course Name.</i>	<i>Credit Hours</i>	<i>Lec.</i>	<i>Lab</i>	<i>Prerequisites</i>
<i>IT 300</i>	<i>Human Computer Interaction</i>	<i>3</i>	<i>2</i>	<i>2</i>	<i>IT 281 IT Systems</i>

**Course Description:**

This course provides an introduction to the field of human-computer interaction (HCI), an interdisciplinary field that integrates cognitive psychology, design, computer science and others. This course will examine human performance, components of technology, methods and techniques used in design and evaluation of IT. Societal impact of HCI such as accessibility will also be discussed. This course will also introduce students to the contemporary technologies used in empirical evaluation methods.

**Course Topics:**

<b>Week</b>	<b>Tentative Schedule</b>
Week 01	Introduction and history of HCI
Week 02	The Human Component Functions I
Week 03	The Human Component Functions II
Week 04	The Computer Component Functions
Week 05	Paradigms for interaction
Week 06	Interaction design basics
Week 07	+ <b>Mid-term exam</b>
Week 08	Interaction design basics
Week 09	Design rules I
Week 10	Design rules II
Week 11	Universal design
Week 12	Cognitive models + Ergonomics I
Week 13	Cognitive models + Ergonomics II
Week 14	Models of the system I
Week 15	Models of the system II
Week 16	<b>[Final Exam]</b>

## **Textbook and Resources:**

### **Main Textbook:**

- Human Computer Interaction, Dix, J. Finlay, G. Abowd, and R. Beale, 3rd edition, Prentice Hall, 2004. ISBN 978-0130461094
- J. Maeda: The Laws of Simplicity. MIT Press 2006. ISBN 978-0262134729

### **Other Resources**

- Preece, Jenny. Sharp, Helen . Rogers, Yvonne. Interaction Design: Beyond Human-Computer Interaction, 4th Edition. Copyright Year: 2015. ISBN 978-0130461094

## **Project and Assignments**

- A group project will be assign to the students. This project will implement the design principle of HCI.

## **Grade Distribution**

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