

**Jerash University**

**Faculty of Computer Science and Information Technology**

**Computer Sciences Department**

**Semester**: Fall Semester 2018/2019

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| **Course symbol and number:** 1001393 | **Course Name:** Human Computer Interaction |
| **Teaching Language:** English | **Prerequisites: 1001392** |
| **Credits:** 3 hours**.** | **Course Level: 3**00 |

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| **Course Description** This course focuses on how people can be a core component in the design and use of IT. This course introduces aspects of human behavior that influence the design, development, and use of interactive computer systems.  The course also considers a variety of methods that can be applied to the design and evaluation of interactive systems.   |

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| **Course Objectives**  |
| The main objectives of this course are to: 1. Understand how machines influence human consciousness and how human needs and dreams shape the function of machines.
2. Identify and describe key social, cognitive, and physiological factors that influence people's perceptions, understandings, and usages of information technology.
3. Compare and contrast state-of-the-art technologies for user interaction design.
4. Articulate the strengths, weaknesses, and application considerations of alternative techniques for user-centered design and evaluation.
5. Plan, prototype, evaluate, and document the user-centered rationale for an interactive systems design project.
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| **Learning Outcomes**  |
| Upon completion of this course, students should be able to: 1) Understand the basics of human and computational abilities and limitations. 2) Understand how these lead to models of interaction. 3) Understand basic theories, tools and techniques in HCI. 4) Apply appropriate techniques to real-world problems. 5) Demonstrate awareness of HCI issues, implications and developments. 6) Apply evaluation techniques relevant to HCI.  |

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|  | **Text Book(s)**  |
| **Title**  | Human Computer Interaction” |
| **Author(s)**  | A. Dix, J. Finlay, G. D. Abowd, R. Beale, |
| **Publisher**  | Prentice Hall, |
| **Year**  | 2006 |
| **Edition**  | 3rd edition, |

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|  | **References** |
| **Books**  | Yvonne Rogers, Helen Sharp, Jennifer Preece,” Interaction design beyond human computer interaction. John Wiley & Sons, 3rd Edition, 2011. |
| **Internet links**  | http://www.jpu.edu.jo/lms |
| **Course link**  | [Click here](http://www.jpu.edu.jo/lms) |

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|  | **Instructors**  |
| **Instructor**  |  Dr. Ahmad Abu Al Aish |
| **Office Location**  | الطابق السابع 711 |
| **Office Phone**  |  |
| **E-mail**  | Ahmad.abualaish@gmail,com |

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| **Week** | **Topics** | **Reference (chapter)** |
| **1,2** | The Computer | 2 |
| **3,4** | The Interaction  | 3 |
| **5** | The Paradigms  | 4 |
| **First exam** |
| **6,7** | Interaction design basics | 5 |
| **8,9** | HCI in the software process | 6 |
| **10** | Design Rules | 7 |
| **Second Exam** |
| **11,12** | Evaluation Techniques | 9 |
| **13,14** | User Support  | 11 |
| **15** | socio-organizational issues and stakeholder requirements | 13 |
| **Final Exam** |

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|  | **Evaluation**  |  |
| **Assessment Tool**  | **Expected Due Date**  | **Weight**  |
| Programming assignments and LMS |  | 20 %  |
| First Exam  |  | 20 %  |
| Second Exam  |  | 20 %  |
| Final Exam  | According to the University final examination schedule  | 40 %  |

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|  | **Policy**  |
| **Attendance**  | Attendance is very important for the course. In accordance with university policy, students missing more than the allowed absence rate 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.  |
| **Exams**  | All exams will be CLOSE-BOOK; necessary algorithms/equations/relations will be supplied as convenient. |

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| **Class Schedule & Room**  |

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| **Office Hours**  |
|  Sun: 8 - 9  Mon: 8 - 9:30  Tues: 11- 12  Wed: 11 – 12:30 |
|  | \* Or by an appointment through email |  |

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|  | **Teaching Assistant**  |
| To announced later on.  |  |

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|  | **Prerequisites**  |
| **Prerequisites by course** | **1001392** |