

University of Puerto Rico
 Mayagüez Campus
 College of Engineering
 Department of Civil Engineering
 Bachelor of Science in Civil Engineering

Course Syllabus

1. General Information:	
Alpha-numeric codification: ICOM 6095 Course Title: Interacción Humano-Computadora Number of credits: Tres horas crédito Contact Period: 3 horas de conferencia	
2. Course Description:	
English: Software engineering and human factors for the design, implementation and evaluation of effective user interface for computing systems.	
Spanish: Factores humanos y factores de ingeniería de programación para el diseño, realización y evaluación de la interfaz de sistemas de computación.	
3. Pre/Co-requisites and other requirements:	
4. Course Objectives:	
Proveer a los/las estudiantes conocimientos sobre los tópicos y disciplinas que contribuyen a una interacción efectiva entre humano y computadora.	
5. Instructional Strategies:	
<input checked="" type="checkbox"/> conference <input checked="" type="checkbox"/> discussion <input checked="" type="checkbox"/> computation <input type="checkbox"/> laboratory <input type="checkbox"/> seminar with formal presentation <input type="checkbox"/> seminar without formal presentation <input type="checkbox"/> workshop <input type="checkbox"/> art workshop <input type="checkbox"/> practice <input type="checkbox"/> trip <input type="checkbox"/> thesis <input checked="" type="checkbox"/> special problems <input type="checkbox"/> tutoring <input type="checkbox"/> research <input checked="" type="checkbox"/> other, please specify: group work	
6. Minimum or Required Resources Available:	
Materials, equipment, and physical facilities needed to fulfill the course objectives.	
7. Course time frame and thematic outline	
Outline	Contact Hours
Introducción	3
Características Humanas y Psicología Cognitiva	10
Comunicación Cara a Cara y Conversación	3
Psicología Social y Organizacional	2
Modelos de Interacción	6
Análisis de Tareas	4
Paradigmas y Principios de Usabilidad	6
Técnicas de Evaluación	4
El Diálogo	1
Temas avanzados en interacción humano computadoras	6
Total hours: (equivalent to contact period)	45

8. Grading System

Quantifiable (letters) Not Quantifiable

9. Evaluation Strategies

	Quantity	Percent
<input type="checkbox"/> Exams		
<input type="checkbox"/> Final Exam		
<input type="checkbox"/> Short Quizzes		
<input type="checkbox"/> Oral Reports		
<input type="checkbox"/> Monographies		
<input checked="" type="checkbox"/> Homework		
<input checked="" type="checkbox"/> Projects		
<input checked="" type="checkbox"/> Papers		
<input type="checkbox"/> Other, specify:		
TOTAL:		100%

10. Bibliography:

1. Dix, A., Finlay, et al., Human-Computer Interaction, Second Edition, Prentice Hall, 2003.
2. Jennifer Preece, Helen Sharp, Yvonne Rogers, "Interaction Design: Beyond Human-Computer Interaction", John Wiley & Sons, 2007.
3. Jonathan Lazar, "Universal Usability: Designing Computer Interfaces for Diverse User Populations" John Wiley & Sons, 2007
4. Debbie Stone, et. al., "User interface Design and Evaluation", Morgan Kaufmann, 2005.
5. Catherine Courage and Kathy Baxter, "Understanding your Users: A Practical Guide to User Requirements", Morgan Kaufmann, 2005.
6. Nielsen, J., Usability Engineering, Academic Press, 1993.
7. Dov Te'eni, Jane M. Carey and Ping Zhang, "Human Computer Interaction: developing effective organizational information systems", John Wiley & Sons, 2007.
8. Preece, J., Human-Computer Interaction, Addison-Wesley, 1994.
9. Rubin, J., Handbook of Usability Testing: How to Plan, Design, and Conduct Effective Tests, John Wiley & Sons, Inc., 1994.
10. Deborah J. Mayhew, "The Usability Engineering Lifecycle: A Practitioner's Handbook for User Interface Design", Morgan Kauffman, 1999.

11. According to Law 51

Students will identify themselves with the Institution and the instructor of the course for purposes of assessment (exams) accommodations. For more information please call the Student with Disabilities Office which is part of the Dean of Students office (Chemistry Building, room 019) at (787)265-3862 or (787)832-4040 extensions 3250 or 3258.