

DEGREE CURRICULUM INTERACTION AND USABILITY

Coordination: GARRIDO NAVARRO, JUAN ENRIQUE

Academic year 2023-24

Subject's general information

Subject name	INTERACTION AND USABILITY					
Code	102371					
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION					
Typology	Degree	Course	Character	Modality		
	Bachelor's degree in Digital Interaction and Computing Techniques	1	COMMON/CORE	Attendance- based		
Course number of credits (ECTS)	6					
Type of activity, credits, and groups	Only examination					
Coordination	GARRIDO NAVARRO, JUAN ENRIQUE					
Department	COMPUTER ENGINEERING AND DIGITAL DESIGN					
Teaching load distribution between lectures and independent student work	40% lectures / 60% independent student work					
Important information on data processing	Consult this link for more information.					
Language	Castellano					

Teaching staff		Credits taught by teacher	Office and hour of attention
GARRIDO NAVARRO, JUAN ENRIQUE	juanenrique.garrido@udl.cat	0	

Subject's extra information

Subject to be held during the second semester in the first course of the Degree in Digital Interaction and Computing Techniques.

It belongs to the Computer Science area, inside the "Basic Training" module.

Learning objectives

- Know the basic concepts related to the Human-Computer Interaction.
- Understand the importance of creating usable interfaces.
- Learn methodologies for the development of user-centred interactive applications.
- Establish the relationship with Software Engineering.
- Ability to identify and analyze the aspects related to the user experience in real examples.
- Be able to design the interfaces of an interactive system based on users' needs and the context of use.
- Know the main aspects of accessibility in ICT.

Competences

Basic competences:

B01. That students have demonstrated to possess and understand knowledge in an area of study that starts from the base of general secondary education, and is usually found at a level that, although supported by advanced textbooks, also includes some aspects that imply knowledge coming from the vanguard of his/her field of study.

Transversal competences:

- CT3. Acquire training in the use of new technologies and information and communication technologies.
- CT5. Acquire essential notions of scientific thought.

General competences:

- CG2. Design, develop, evaluate and guarantee the accessibility, ergonomics, usability and security of computer systems.
- CG3. Use adequate hardware and software platforms to develop and execute interactive digital applications.
- CG5. Know the basic subject areas and technologies needed to learn and develop new methods and technologies,

and those that help to adapt to new situations.

- CG7. Solve problems through initiative, determination, independence and creativity.
- CG8. Capacity for abstraction and critical, logical and mathematical reasoning.

Specific competences:

- CE16. Capacity to design and evaluate person-computer interfaces that guarantee the usability of systems, services and computer applications.
- CE17. Capacity to apply knowledge on design to propose and defend a design concept for an interactive system and use proper creative technologies to develop each project.
- CE24. Capacity to understand the human factors involved in any interactive process between humans and technology, as well as being able to adequately apply them in the design of interactive products and services, and their interfaces.

Subject contents

Block I

Prototypes	
History + IU, DCU, UX	
Requirements Analysis	
User Centered Design	
Information Architecure	
Human Factors	

Bloc II

Design Guides	
UI Design	
Accessibility	
Accessibility Evaluation	
Interaction Paradigms	

Methodology

Exam-only mode.

Development plan

Exam-only mode.

Evaluation

- Final Grade = (0.5 * Theory) + (0.5 * Practices) >= 5
- Theory = ((0.5* First Partial) + (0.5 * Second Partial)) >= 5
 - First Partial (50% of theory) Block I
 - Second Partial (50% of theory) Block II
- **Practice** = Practice Project = 50% of the Final Grade
 - The project will be agreed with the students

Retakes

- If Theory < 5 = maximum grade 7.5
 - Theory exam (Blocks I and II)
- If Practice project < 5 = maximum grade 7.5
 - · Re-delivery of the practice project with the corrections indicated by the teaching staff

Bibliography

- Alan Dix, Janet Finlay, Gregory D. Abowd, Russell Beale. Human-Computer Interaction, Prentice Hall, ISBN-13:
- 978-0-13-046109-4 (2004)
- -Don Norman. The Design of everyday Things. MIT Press
- Nielsen Norman group. https://www.nngroup.com/
- ux planet: uxplanet.org
- Material Design: material.io
- The World Wide Web. http://www.w3.org/
- curso-ipo.com
- https://mpiua.invid.udl.cat