UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

Course guides
270535 - IA - Interfaces and Accessibility

Last modified: 27/11/2018

Unit in charge: Barcelona School of Informatics
Teaching unit: 707 - ESAII - Department of Automatic Control.

Degree: MASTER'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2012). (Optional subject).

Academic year: 2018 **ECTS Credits:** 3.0 **Languages:**

LECTURER

Coordinating lecturer:

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CTE8. Capability to design and develop systems, applications and services in embedded and ubiquitous systems .
CTE11. Capability to conceptualize, design, develop and evaluate human-computer interaction of products, systems, applications and informatic services.

Generical:
CG9. Capacity to understand and apply ethical responsibility, law and professional deontology of the activity of the Informatics Engineering profession.

Transversal:
CTR4. INFORMATION LITERACY: Capability to manage the acquisition, structuring, analysis and visualization of data and information in the area of informatics engineering, and critically assess the results of this effort.

Basic:
CB7. Ability to integrate knowledges and handle the complexity of making judgments based on information which, being incomplete or limited, includes considerations on social and ethical responsibilities linked to the application of their knowledge and judgments.

TEACHING METHODOLOGY

No distinction is made □□between classes of theory and problem. The lectures will be reinforced with examples showing the possible alternatives and solutions to the problems on discusion.Some sessions, more applications oriented, will focus on case analysis, based on needs of user to define specifications and design. Both the hardware components and software will be studied, including human factors issues.

LEARNING OBJECTIVES OF THE SUBJECT

1.null

STUDY LOAD

Type	Hours	Percentage
Guided activities	3,0	4.00
Self study	48,0	64.00
Hours large group	12,0	16.00
Hours small group	12,0	16.00

Total learning time: 75 h

CONTENTS

Interfaces and accessibility

Description:
El canvi que s'està produint amb la creixent introducció de la informàtica a la vida quotidiana, així com la major consciència social de que les persones amb discapacitats no en quedin al marge, obliga als professionals de la informàtica i tecnologies afins a dissenyar els seus equips amb interfícies cada cop més naturals e intuïtives. L'existència ja de dispositius que aporten noves formes de comunicació amb l'ordinador, cada cop més integrats en productes comercials, confirma més aquesta tendència.

En aquesta assignatura es pretén capacitar a l'alumne en el disseny orientat a l'usuari final de la tecnologia, considerant les funcionalitats que ha d'oferir, les condicions de treball (ex: necessitat de mans lliures, restriccions ergonòmiques, adaptació a persones amb discapacitat, etc.) i tenint en compte els limitats o nuls coneixements de l'usuari en la tecnologia de l'equip que utilitza.

GRADING SYSTEM

The course will be evaluated from a partial exam, EP, and a final exam, EF, which comprise the entire course, as well as an evaluation of some case analysis, students AC.

The practical analysis of cases of students repeating course can be recognized, but with a score of 5. Optionally they can repeat this work to improve it.

The final NF is: NF = 0.2 EP 0.4 EF 0.40 AC.