

UE Human computer interaction



Niveau d'étude
Bac +4



ECTS
3 crédits



Crédits ECTS
Echange
3.0



Composante
UFR
Informatique,
mathématiques
et
mathématiques
appliquées
(IM2AG)



Période de
l'année
Printemps (janv.
à avril/mai)

Diplômes intégrant cet élément

- Master Informatique

- › Langue(s) d'enseignement: Anglais
- › Méthodes d'enseignement: En présence
- › Forme d'enseignement : Cours magistral
- › Ouvert aux étudiants en échange: Oui
- › Crédits ECTS Echange: 3.0
- › Code d'export Apogée: GBX8MO05
- › Temps de travail personnel pour l'étudiant: 24

Présentation

Description

Target skills :

The goal is to present the core principles of human-centered approaches for analyzing, designing, implementing and evaluating interactive systems. At the end, students must be familiar with utility (good coverage of the needs) and usability (good quality of service), the two key properties in Human-Computer Interaction for both criticizing and developing high quality User Interfaces (UI). The principles are applied to graphical UIs, including web sites.

Students who attend this course should be able to design, implement and evaluate interactive systems following a user centered approach.

Program summary :

The course presents the key steps and models in user centered design. Then it focuses on ergonomic criteria for sustaining both the design and evaluation of user interfaces.

- Analysis: cognitive models, motivations for the system, models of the user, environment, and activity
- Design: tasks, concepts and platform models, ergonomic criteria, abstract and concrete user interfaces, specifications (User Action Notation)
- Implementation: software architecture models, tools (overview of web programming techniques)
- Evaluation: predictive and experimental, qualitative and quantitative approaches.

The course includes 18h of formal lectures and 18h of project. The project lasts during the whole semester. Students have to analyse a need, design and prototype an interactive system, and evaluate it. The theme is chosen by the students. They have to produce two documents (analysis and design), a prototype, and to test it through user experiments.

Heures d'enseignement

TD	TD	21h
CM	CM	12h

Période : Semestre 8

Infos pratiques

Contacts

Responsable d'UE

Gaelle Calvary Paen

✉ Gaelle.Calvary@univ-grenoble-alpes.fr

Responsable d'UE

François Berard

✉ françois.berard@univ-grenoble-alpes.fr

Lieu(x) ville

› Grenoble

Campus

› Grenoble - Domaine universitaire