

DPT INFORMATIQUE INFORMATIQUE APPRENTISSAGE

INSA Campus LyonTech - 7 Avenue Jean Capelle Bâtiment Blaise Pascal - 69100 VILLEURBANNE

Software Engineering

Human computer interaction

IDENTIFICATION

CODE: IFA-4-S2-EC-IHM ECTS: 2.0

HOURS

Lectures: 8.0 h
Seminars: 0.0 h
Laboratory: 12.0 h
Project: 0.0 h
Teacher-student

contact: 20.0 h
Personal work: 30.0 h
Total: 50.0 h

ASSESSMENT METHOD

Individual evaluation:

- * Written exam [1h30, course materials allowed]
 Team evaluation:
- * OCM
- * Report (one per team of 6 students)
- * Project defense (per team of 6 students)

TEACHING AIDS

Slides on moodle

TEACHING LANGUAGE

French

CONTACT

MME PRIOT Karine karine.priot@insa-lyon.fr

AIMS

The main goal of this course is for the student to acquire fundamental knowledge on Human-Computer Interaction and to develop competences for the design of interactive systems. We will focus on human-centered methods for user interfaces, on the evaluation of user interfaces and interactive systems and on ergonomics.

This course targets the following skills:

- * To enforce a methodology to design, implement and maintain quality software
- * To enforce generic tools for software quality.
- * To design the architecture of an object-oriented software

More precisely, at the end of this course, the student should be able to:

- * Enforce a user-centered design process
- * Evaluate an interactive system based on ergonomic criteria
- * Develop an interface with respect to the principle of separation between the UI source code and the core application source code

CONTENT

- * Fundamentals models and concepts in Human Computer Interaction
- * Human centered design for interactive systems
- Methods to collect users'needs
- User, context and task modeling
- Prototyping
- Evaluation
- * Ergonomics for conception and evaluation of interactive systems
- * Mobility and innovation in HCI

BIBLIOGRAPHY

Jean-Francois NOGIER, Thierry BOUILLON, Jules LECLERC. Ergonomie des interfaces: Guide pratique pour la conception des applications web logicielles, mobiles et tactiles, Dunod, 5cme cidition corrigée, ISBN978-2-10-059487-0, 298 pages, 2013.

PRE-REQUISITE

IFA-3-P001, IFA-3-P002, IFA-3-DASI

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