

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

AIMS

DPT INFORMATIQUE INFORMATIQUE APPRENTISSAGE

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

Software Engineering

Human computer interaction

IDENTIFICATION : IFA-4-S2-EC-IHM : 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	n:		
* Written exam	(1h30,	course	
materials allowed)			
Team evaluation :			
* QCM			

* QCM

CODE :

ECTS :

* 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

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-Fran¿ois NOGIER, Thierry BOUILLON, Jules LECLERC. Ergonomie des interfaces : Guide pratique pour la conception des applications web logicielles, mobiles et tactiles, Dunod, 5¿me ¿dition corrig¿e, ISBN978-2-10-059487-0, 298 pages, 2013.

PRE-REQUISITE

IFA-3-POO1, IFA-3-POO2, IFA-3-DASI

INSA LYON

Campus LyonTech La Doua 20, avenue Albert Einstein - 69621 Villeurbanne cedex - France Phone +33 (0)4 72 43 83 83 - Fax +33 (0)4 72 43 85 00 www.insa-lyon.fr