

MSC HUMAN COMPUTER INTERACTION

IN BRIEF

Type of diploma : Master of science degrees

Ministry field(s) : Science and Technology

Mention : Informatique

Presentation

The Masters in Human Computer Interaction is a joint degree organised by Paul Sabatier University (Toulouse 3) and the ENAC (*École Nationale de l'Aviation Civile* - French School of Civil Aviation). This course trains high-level professional specialists in the design and development of interactive applications, with an understanding of IT techniques and human performance.

HMI Master graduates are able to:

- Manage the "user-based" development of interactive software.
- Define and apply standards in terms of formats and usability.
- Assess the ergonomics and usability of software.

Master's modules round off initial training in IT and provide specific skills in the field:

- Technological skills: understanding of the tools and techniques used in New Information and Communication Technologies (NICT).
- Method-based skills: software engineering, development process management and project management methods in the context of the development of interactive software.
- Integrating human performance considerations in the design of human-machine interfaces: human engineering, cognitive psychology, experimental psychology, ensuring our graduates can produce human-friendly software with a high level of usability.

Organization

Master Human Computer Interaction (MSc)

Semester 9

- *Upgrading lessons (Mandatory)*
 - IH5003 - JavaFX upgrade

MORE INFO

Level : Year 5 higher education – Master

Training Audience
* Initial Education

Kind of education :
Curriculum

- IH5004 - CISI upgrade
- IH5005 - Design Pattern Upgrading
- *Interactive Systems Engineering (Mandatory)*
 - IH5001 - Interactive Systems Engineering
 - IH5002 - Project management and requirements engineering for interactive systems
- *Technologies and Techniques for Interactive Systems (Mandatory)*
 - IH5011 - Mobile
 - IH5012 - Prototyping tools and techniques
 - IH5013 - Implementation of standard services of interfaces
 - IH5014 - Component-based approach
 - IH5015 - Interactive Web
- *Interaction techniques and application domains (Mandatory)*
 - IH5021 - Information visualisation
 - IH5022 - Application domains
 - IH5023 - Groupware
 - IH5024 - Multitouch
 - IH5025 - Methods of interactions
 - IH5016 - 3D programming environments and applications
- *Human Factors and experimental methods (Mandatory)*
 - IH5031 - Understand and Describe Humans
 - IH5032 - Usability and User experience
 - IH5033 - Assessment and experimental methods
 - IH5034 - Context, users and tasks
- *Interactive Systems Design (Mandatory)*
 - IH5051 - Creativity for human-computer interaction
 - IH5052 - Graphic design of interactive systems
 - IH5053 - 2D, 3D and multitouch application
 - IH5054 - Semiology and graphic structure
 - IH5055 - Sound design

Semester 10

- *English for Information Technology Professionals (Mandatory)*
 - LV5003 - English for Information Technology Professionals
 - LV5007 - English for intellectual properties
- *Capstone project (Mandatory)*
 - IH5099 - Capstone project
- *Scientific research & HCI (Mandatory)*
 - IH5041 - Research & HCI
- *Internship project (Mandatory)*
 - TX5099 - Internships in a research lab or in the industry

Access conditions

For more information please click [here](#).

Organizational unit

ENAC - Ecole nationale de l'aviation civile

Places

Toulouse

Contacts

Course Director

Mme GIZARDIN Muriel

muriel.gizardin@enac.fr

Phone +33 5 62 17 44 12

MICHELET Karine

recrutement.masters@enac.fr

Phone +33 5 62 17 43 73