

## 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

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Semester 9

### MORE INFO

**Level** : Year 5 higher education – Master

**Type of education**  
\* Full-time

**Kind of education** :  
Curriculum

- *Upgrading lessons (Mandatory)*
  - IH5003 - Mobile
  - IH5004 - Mobile
  - 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
- *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
- *Scientific research & HCI (Mandatory)*
  - IH5041 - Research & HCI

#### Semester 10

- *English for Information Technology Professionals (Mandatory)*
  - LV5003 - English for Information Technology Professionals
- *Capstone project (Mandatory)*
  - IH5099 - Capstone project
- *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
- *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

#### Responsable

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