



Université Toulouse Capitole



# Master of Information Technology Innovative Information Systems—2IS

The **2IS** Master program is designed for Bachelor students in IT aiming at expanding their knowledge on innovative information technologies. Innovative information technologies reinvent and transform businesses; Artificial Intelligence, Big Data and Web Services Orchestration drastically impact end-users since automation is at the heart of business processes.

**2IS** proposes a unique and broad perspective on innovation in a 2-year program:

- Innovative software solutions such as advanced programming, IoT, self-service business intelligence, machine learning and distributed databases.
- Innovative software development methods such as agile management and collaborative design.
- Innovation and entrepreneurship in strategy and management.

At the Faculty of Information Technologies of University of Toulouse Capitole, we promote **innovative teaching methods**: capstone projects, flipped classrooms and serious games. We go beyond teaching hard skills, proposing training on soft skills like teamwork and communication skills classes.

## Main Courses and Structure

**Year 1 - First Term (30 ECTS): Fundamentals** Business Intelligence, Project Management, Data analytics, Advanced Programming, Software Analysis and Design

**Year 1 - Second Term (30 ECTS): From fundamentals to innovation** Business Process Modeling, Web Services, Artificial intelligence, Innovation and Marketing

**Year 2 - Third Term (30 ECTS): Innovation** Innovative Software Methods, Strategy, Innovative Data Management, Internet of Things, Sustainable Information Systems, Advanced Topics in Artificial Intelligence, Cybersecurity, User interface and user experience (UI/UX)

**Year 2 - Fourth Term (30 ECTS): Innovation in action**  
5-month internship

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Faculté d'Informatique

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# Master of Information Technology Innovative Information Systems—ZIS

## Teaching language

English for all courses

**Required** Bachelor in  
Information Technology  
or Information Systems

**ZIS** is a **MIAGE** Master program (Méthodes Informatiques Appliquées à la Gestion des Entreprises), which is the reference Master in France for Information Technology. MIAGE programs are offered by more than 20 universities.

All MIAGE graduate students have a unique combination of technical and business skills, guaranteeing a **very high employability**. Typical jobs include business analyst, management and IT consultant, and software entrepreneur.

**ZIS** is organised by researchers of **IRIT** (Institut de Recherche en Informatique de Toulouse), one of the major computer science institutes in France.

The university campus is conveniently located in the **city center**,

## Studying in Toulouse

**Tuition fees:** around 400€ for each year including health insurance

**Toul'Box** and **Welcome Desk** for an easy arrival in Toulouse

<https://toulbox.univ-toulouse.fr/en/>

<http://en.univ-toulouse.fr/welcome-desk>

**Living costs** around 700-800€ per month

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## How to apply

**Applications** to be submitted via Campus France or University website, all details available on the ZIS webpage: <http://miage.ut-capitole.fr/Zis>

**Campus France application period:** from October to December.

**Other students:** apply on March

**Main documents** CV, grade transcripts, cover letter, evidence of English proficiency (CEF level B2 is required)