



Master Programs

Computers and Information Technology

2021 - 2022



## Artificial Intelligence

### Faculty of Automatic Control and Computer Science

The M.Sc. programme in Artificial Intelligence offers in-depth theoretical and practical knowledge on artificial intelligence and intelligent applications, distributed problem solving, machine learning and deep neural networks, computer vision, games and strategies, intelligent agents and their applications, social networks, search and filtering of information on the Web, data mining, innovative ways to represent and use data, natural language processing.

#### Contact person:

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## Parallel and distributed computer systems

### Faculty of Automatic Control and Computer Science

This MSc Program aims to train experts in parallel and distributed computer systems. Subjects include the design, development, deployment, evaluation, and analysis of modern parallel and distributed systems, and their applications. The content includes state-of-the-art topics and real-world techniques. Such techniques keep evolving as part of a very dynamic domain that experiments, validates, and promotes innovative solutions at the frontline of high-tech science and engineering.

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## Advanced Cybersecurity

### Faculty of Automatic Control and Computer Science

The "Advanced Cybersecurity" (AC) master program aims at training highly qualified specialists in the field of cybersecurity. From a professional point of view, the master program develops engineering skills in identifying vulnerabilities, risks and cyber threats, as well as scientific skills in carrying out research projects in the field at European level. The master also aims to develop the professional autonomy of students and their ability to social interaction, transversal skills essential to further career development in both academia and the IT&C industry.

#### Contact person:

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## Financial Computing

### Faculty of Automatic Control and Computer Science

The Master of Science in Financial Computing program has the mission to train specialists in the field of Computer Science and Engineering which intend to build a career in the domain of Finance and Banking. The program combines in its curriculum advanced elements of Computer Science which are necessary to specialists working in Banking and Financial Technology (FinTech), as well as introductory Finance elements, and also elements of soft skills.

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## Software Engineering

### Faculty of Engineering in Foreign Languages

Some of the most difficult and challenging problems in industry and commerce are associated with software development. Software has become an increasingly important element of many products that are developed today. There has been a shift in costs from hardware development to software solutions development. This increases the need to be able to develop software products with accurate functionality, of high quality, on time and on budget.

**Contact person:**

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## Information Technologies Applied in Aviation

### Faculty of Automatic Control and Computer Science (UNESCO)

This master programme strongly focuses on digitalization of air transport, ensuring cross-disciplinary knowledge and abilities in aviation and ICT, a holistic understanding of ICT options and methods applied in aviation.

Students will acquire learning outcomes for developing, analyzing and managing innovative and advanced ITC systems for air transport industry.

**Contact person:**

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## **Management, innovation et technologies des systèmes collaboratifs**

Faculté d'Ingénierie en Langues Etrangères

L'objectif principal de ce master est de fournir aux étudiants des connaissances sur l'infrastructure d'information et de communication de l'organisation moderne, sur la transformation des affaires et de la gestion sous l'impact des technologies de l'information et de la communication et, en particulier, sur le rôle stratégique des systèmes d'information en économie.

### **Personnes de contact:**

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