

## Master Programs

## Automatic Control and Computer Science

2020 - 2021



## **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. It focuses on the design and implementation of state-of-the-art artificial intelligence systems, offering both computer science and engineering skills.

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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



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## **Advanced Cybersecurity**

#### Faculty of Automatic Control and Computer Science

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.

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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

The Master of Science Program on Software Engineering (MSE) introduces a postgraduate degree to meet new challenges by educating software developers in advanced software engineering concepts that cover the entire development chain, from inception to delivery, from the business management perspective to technical management and development perspectives.

MSE aims to produce software engineering industry leaders and key agents of change to improve practices in the field, as it evolves. The program is project and research oriented. This means that students have a large choice of projects and research themes to develop.

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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.

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# Management, innovation et technologies des systèmes collaboratifs

#### Faculté d'Ingénierie en Langues Étrangères

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.

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