

# Master's degree in Machine Learning and Cybersecurity for Internet-Connected Systems

The **master's degree in Machine Learning and Cybersecurity for Internet-Connected System** aims to provide advanced and specialised scientific and technological training in artificial intelligence and cybersecurity, with an emphasis on their application in internet-connected systems, including computer systems of differing degrees of complexity in general and Internet of Things systems in particular. The aim is thus to cover the current shortage of professionals who have this kind of training, which is highly valued in industry and in research in ICT technologies.

This master's degree is organised within the framework of the **European MERIT project**, through the funding of the Digital Europe programme, in collaboration with three European universities, SMEs, digital innovation hubs and research centres. The European project provides funding such as student grants.

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## GENERAL DETAILS

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### Duration and start date

1.5 academic years, 90 ECTS credits

### Timetable and delivery

Face-to-face

### Fees and grants

Approximate fees for the master's degree, **excluding other costs** (does not include non-teaching academic fees and issuing of the degree certificate):

€2,670 (€9,496 for non-EU residents).

[More information about fees and payment options](#)

[More information about grants and loans](#)

### Language of instruction

English

Information on [language use in the classroom and students' language rights](#).

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## ADMISSION

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### General requirements

[Academic requirements for admission to master's degrees](#)

### Specific requirements

Candidates in possession of one of the following bachelor's degrees (or equivalent) are granted admission to the master's degree without having to take bridging courses:

- Bachelor's degree in ICT Systems Engineering
- Bachelor's degree in Informatics Engineering
- Bachelor's degree in Data Science and Engineering
- Bachelor's degree in Telecommunications Systems Engineering
- Bachelor's degree in Telecommunications Technologies and Services Engineering
- Bachelor's degree in Network Engineering

Candidates in possession of one of the following bachelor's degrees (or equivalent) are granted admission to the master's degree once they have taken the bridging courses set by the master's degree committee, which will not exceed 18 ECTS credits:

- Bachelor's degree in Industrial Electronics and Automatic Control Engineering
- Bachelor's degree in Industrial Technology Engineering
- Bachelor's degree in Electrical Engineering

Admission of candidates with degrees other than the above must be established by the master's degree committee.

## Places

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## Pre-enrolment

Pre-enrolment period open.

Expected deadline: 05/07/2024.

[How to pre-enrol](#)

## Enrolment

[How to enrol](#)

## Legalisation of foreign documents

All documents issued in non-EU countries must be [legalised and bear the corresponding apostille](#).

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## PROFESSIONAL OPPORTUNITIES

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### Professional opportunities

- Intelligent software developer.
- Specialist in artificial intelligence.
- Cybersecurity consultant and analyst.
- Security manager in tech companies and ICT departments.
- Data scientist and engineer.
- Internet of Things engineer.
- Researcher at innovation and development centres.
- Teaching and/or research staff at universities.

### Competencies

#### Generic competencies

Generic competencies are the skills that graduates acquire regardless of the specific course or field of study. The generic competencies established by the UPC are capacity for innovation and entrepreneurship, sustainability and social commitment, knowledge of a foreign language (preferably English), teamwork and proper use of information resources.

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## ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

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### UPC school

[Manresa School of Engineering \(EPSEM\)](#)

### Academic calendar

[General academic calendar for bachelor's, master's and doctoral degrees courses](#)

### Academic regulations

[Academic regulations for master's degree courses at the UPC](#)

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## CURRICULUM

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