

Master's degree in Artificial Intelligence for Connected Industries (AI4CI)

The **master's degree in Artificial Intelligence for Connected Industries (AI4CI)** aims to train professionals who are capable of understanding concepts in artificial intelligence, machine learning, data science and telecommunications engineering and applying them in the transition towards connected industry, with the aim of innovating and improving the communications networks used between the elements of an industrial plant.

GENERAL DETAILS

Duration and start date

2 academic years, 120 ECTS credits. Starting September

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):

€3,320 (€12,662 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](#).

Location

[Castelldefels School of Telecommunications and Aerospace Engineering](#)

Official degree

[Recorded in the Ministry of Education's degree register](#)

ADMISSION

General requirements

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

Places

25

Pre-enrolment

Pre-enrolment period open.

Expected deadline: 01/07/2025.

[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](#).

PROFESSIONAL OPPORTUNITIES

Professional opportunities

- Data analysis.
- Communications engineering.
- Specialisation in industrial communications and Industry 4.0.
- Software engineering.

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.

Specific competencies

- Identify the characteristics and limitations of the most common mathematical and computational tools in the fields of artificial intelligence and data science.
- Identify related challenges and technological solutions that allow the development of new solutions in the field of communications networks and services, taking into account non-technical constraints (economic, regulatory, ethical, etc.).
- Integrate the values of sustainability and understand the complexity of systems so that visions of sustainable futures are generated.
- Address problems that require making autonomous, informed and reasoned decisions in order to act with social responsibility following ethical values and principles.
- Evaluate inequalities based on sex and gender to design solutions that take into account inclusion and equity.
- Generate innovation in new or existing business institutions and organisations through participation in creative projects.
- Execute a project related to the application of artificial intelligence in a connected industry.

ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

UPC school

[Castelldefels School of Telecommunications and Aerospace Engineering \(EETAC\)](#)

Academic coordinator

[Carles Gómez Montenegro](#)

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](#)