The master's degree in Pure and Applied Logic, coordinated by the Universitat de Barcelona (UB) and with the UPC as a participant, provides a solid background in advanced logic, both pure and applied. Its courses cover a wide variety of areas, from mathematical logic and applications to computer science, artificial intelligence and computational linguistics. In addition, two foundation courses are offered to students who require a basic introduction to logic or mathematics.

GENERAL DETAILS

Duration and start date
1.5 academic years, 90 ECTS credits. Starting September

Timetable and delivery
Mornings and afternoons. Face-to-face

Language of instruction
English

Official degree
Recorded in the Ministry of Education's degree register

ADMISSION

General requirements
Academic requirements for admission to master's degrees

Places
20

Pre-enrolment
To enrol for an interuniversity master’s degree coordinated by a university other than the UPC, you must enrol through the coordinating university:
Universitat de Barcelona (UB)

PROFESSIONAL OPPORTUNITIES

Professional opportunities
This master’s degree promotes the acquisition of skills required for a professional or academic career: creativity, analysis of complex situations, innovation, learning capabilities, research capabilities and strategic decision making. It also promotes other general skills and values such as effective communication, teamwork and professional ethics.

On completing the master’s degree, students will be qualified for:

- Professional jobs requiring a high capacity for analysis of complex situations and strategic decision making.
- An academic career and research in many of the central areas in the field of logic.

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**

- Ability to carry out research and knowledge transfer in the professional sphere.
- Ability to initiate an academic career in the world of research, and particularly a doctoral course in logic at an international level.

---

**ORGANISATION**

**UPC school**

Barcelona School of Informatics (FIB)

**Participating institutions**

Universitat Politècnica de Catalunya (UPC)
Universitat de Barcelona (UB) - **Coordinating university**

---

**CURRICULUM**

October 2018. **UPC. Universitat Politècnica de Catalunya · BarcelonaTech**