UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH

Master's degree in Management Engineering

The **master's degree in Management Engineering** aims to produce experts who, in addition to the ability to apply engineering knowledge and techniques, also have the ability to manage, organise and lead people, projects, departments and businesses. The course, which focuses on effective decision making in uncertain environments, allows students to acquire knowledge and develop skills for designing and managing complex organisations, including people, marketing, finances, production, logistics, project management and resource allocation, for the efficient resolution of organisational problems.

The curriculum design and blended curriculum allow students to take different routes, and also combine the course with their professional lives.

For more information, see **the web page of this master's degree.**

GENERAL DETAILS

Duration and start date

Two or three academic years, 120 ECTS credits., 120 ECTS credits. Starting September and February

Timetable and delivery

Afternoons. In two years: 3 afternoons a week from 17:30 to 21:30. In three years: 2 afternoons a week from 17:30 to 21:30. Blended learning

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

Subjects will be taught in Catalan and Spanish

Information on language use in the classroom and students’ language rights.

Location

Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT)

Official degree

Recorded in the Ministry of Education's degree register

ADMISSION

General requirements

Academic requirements for admission to master's degrees

Specific requirements

Candidates must be in possession of a bachelor’s degree in any area of engineering.

Places

60 places, 20 places february

Pre-enrolment

Pre-enrolment period open.
Expected deadline: 01/07/2024.
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.

DOUBLE-DEGREE AGREEMENTS

Double-degree pathways with other universities in Spain

- Master's degree in Management Engineering (ESEIAAT) + Master’s degree in Management Engineering / Master's degree in Business Management (Management of Organisations in the Knowledge Economy) (UOC)

Further information on this website

With other international universities

- Master's degree in Management Engineering and Master of Science in Engineering and Management (Politecnico di Torino, Italy)

PROFESSIONAL OPPORTUNITIES

Professional opportunities

This master’s degree promotes the acquisition of knowledge and skills for managing teams and projects in the areas of operations and logistics. It also provides the knowledge and skills needed by graduates who wish to seek employment in human resources, marketing and financial and corporate management, and for those who wish to pursue a doctoral degree in Business Administration.

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

- Competencies related to engineering techniques and models for analysis and decision making.
- Competencies related to knowledge and tools for the functional areas of business organisations.
- Competencies related to business management and organisation.

ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

UPC school

Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT)

Academic coordinator

Eulàlia Griful

Academic calendar

General academic calendar for bachelor’s, master’s and doctoral degrees courses

Academic regulations

CURRICULUM

Subjects	ECTS credits	Type
FIRST SEMESTER		
Combinatorial Optimisation Methods	3	Optional
Cooperative Games	3	Optional
English for Management	3	Optional
Game Theory: Cooperative Games	3	Optional
Game Theory: Non-Cooperative Games	3	Optional
Industrial Plants	5	Compulsory
Information and Communication Technology	3	Optional
Innovation and Technology Policy	5	Compulsory
Marketing Management	5	Compulsory
Mathematics for Management	3	Optional
Quality Management: Models and Standards	3	Optional
Quality Management: Statistics Methods	3	Optional
Quantitative Methods in Management	5	Compulsory
Quantitative Research Methods	3	Optional
Research Tools	3	Optional
SECOND SEMESTER		
Applied Statistics	5	Compulsory
Financial Management	5	Compulsory
People Management	5	Compulsory
Process Automation	5	Compulsory
THIRD SEMESTER		
Environmental and Energy Management	5	Compulsory
Management Accounting	5	Compulsory
Operations Management	5	Compulsory
Tools for Decision Analysis	5	Compulsory
FOURTH SEMESTER		
Business Management	5	Compulsory
Information System	5	Compulsory
Supply Chain Management	5	Compulsory
Technical Entrepreneurship	5	Compulsory
FIFTH SEMESTER		
Business Law	3	Optional
Decision Analysis and Game Theory	3	Optional

Subjects	ECTS credits	Type
Electrical Technology	3	Optional
Energy Technology	3	Optional
English for Management	3	Optional
Information and Communication Technology	3	Optional
Mathematics for Management	3	Optional
Mechanics Technology	3	Optional
Process and Materials Processing Technology	3	Optional
Project Management	7	Compulsory
Qualitative Research Methods	3	Optional
Quality Management	3	Optional
Quantitative Research Methods	3	Optional
Research Seminars on Management Engineering	3	Compulsory
Workplace Risks Prevention	3	Optional
SIXTH SEMESTER		
Master's Thesis	12	Project