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 degree certificate fee, €6,535 (€9,803 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

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.
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

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

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

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

CURRICULUM

<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
<th>Type</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td></td>
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<tr>
<td>Combinatorial Optimisation Methods</td>
<td>3</td>
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<td>Cooperative Games</td>
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<td>Game Theory: Cooperative Games</td>
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<td>Game Theory: Non-Cooperative Games</td>
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<td>Subjects</td>
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<tr>
<td>Industrial Plants</td>
<td>5</td>
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<tr>
<td>Information and Communication Technology</td>
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<td>Innovation and Technology Policy</td>
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<tr>
<td>Marketing Management</td>
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<td>Mathematics for Management</td>
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<tr>
<td>Quality Management: Models and Standards</td>
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<td>Quality Management: Statistics Methods</td>
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<td>Quantitative Methods in Management</td>
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<td>Research Tools</td>
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**SECOND SEMESTER**

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<td>5</td>
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<tr>
<td>Financial Management</td>
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<tr>
<td>People Management</td>
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<td>Process Automation</td>
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**THIRD SEMESTER**

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<tr>
<td>Management Accounting</td>
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<td>Operations Management</td>
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<td>Tools for Decision Analysis</td>
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**FOURTH SEMESTER**

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<td>Information System</td>
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<td>Supply Chain Management</td>
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<td>Technical Entrepreneurship</td>
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**FIFTH SEMESTER**

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<td>Decision Analysis and Game Theory</td>
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<td>Electrical Technology</td>
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<td>Mechanics Technology</td>
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<td>Quantitative Research Methods</td>
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<td>Research Seminars on Management Engineering</td>
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<td>Workplace Risks Prevention</td>
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**SIXTH SEMESTER**

| Master's Thesis                              | 12           | Project   |

January 2020. [UPC. Universitat Politècnica de Catalunya · BarcelonaTech](https://www.upc.edu)