The Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT) has substantial experience and an outstanding reputation and is a benchmark in the fields of industrial, aerospace and audiovisual engineering. Its teaching model is based on the learning-by-doing method, in which students engage in real-world projects. The School, which stands out for its focus on innovation, has agreements with universities around the world and solid relationships with business partners. It offers a programme for high achievers and double degree programmes.

The Universitat Politècnica de Catalunya · BarcelonaTech (UPC) is a renowned public institution of research and higher education that is a benchmark in the fields of engineering, architecture, sciences and technology. With its 50 years of history, the UPC welcomes more than 30,000 students every year and hosts the largest concentration of technological research and innovation in southern Europe. It is the best Spanish university in Engineering and Technology, according to the 2020 QS World Universities Rankings by Subject.

Your talent make us proud

Further information:
eseiaat.upc.edu
admissions.eseiaat@upc.edu

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## Master’s Degree in Technology and Engineering Management

The objective of the master’s degree in Technology and Engineering Management (MEM) is to develop the knowledge and skills of engineers and scientists in the management of people, projects, resources and organisations in technical environments. The MEM focuses on effective decision making in engineering and technological organisations in today’s competitive and rapidly changing business environment.

### Why this master?

The methodology of the master’s degree in Technology and Engineering Management follows an adapted project-based learning approach. During the degree, students will work in teams on a project that demonstrates their newly assimilated knowledge and further development of their skills.

### Admission

Admission to this master’s degree requires:
- A bachelor’s degree in engineering.
- An English language certificate equivalent to B2.2 in the CEFR, for candidates whose first language is not English.
- Professional experience in engineering or management positions is viewed favourably in the admission process, although it is not compulsory.

### Professional opportunities

In their professional roles, graduates of this master’s degree will be expected to:
- Analyse data to identify patterns.
- Optimise problems and systems using mathematical models and skills in decision making under uncertainty.
- Apply the theoretical and fundamental principles of management in engineering and technology companies in uncertain environments.
- Analyse the need for physical and financial resources in process and project management in technological environments.
- Include aspects related to internationalisation in decision making.
- Carry out and defend a comprehensive project in technology and engineering business management.

### Work placements

The Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT) offers students the option of taking extracurricular placements (on a voluntary basis) while they are studying: you can take up to 1,085 hours of extracurricular placement. Every year, the ESEIAAT signs about 1,000 placement agreements, which means that about 40% of students who take a placement sign an agreement with a company. Moreover, it is obligatory for students to be paid for placements.

### Delivery and duration

The master’s degree is taught face-to-face in English and starts in September and February. It lasts one academic year of on-campus courses (60 ECTS credits) and six months of on-campus or online work on the master’s thesis (30 ECTS credits).

### International double master’s degrees

The ESEIAAT offers double master’s degrees with the University of Bergamo and the Politecnico di Torino.

### Curriculum

<table>
<thead>
<tr>
<th>1st semester</th>
<th>2nd semester</th>
<th>3rd semester</th>
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</thead>
<tbody>
<tr>
<td>Finance and Accounting</td>
<td>Production and Logistics</td>
<td>Master’s Thesis</td>
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<tr>
<td>Tools for Decision Making</td>
<td>International Business</td>
<td>90 ECTS credits</td>
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<tr>
<td>Information Technologies and Data Analysis</td>
<td>Strategy and Marketing</td>
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<td>Asset and Facility Management</td>
<td>Advanced Project Management</td>
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<td>Leading Teams</td>
<td>Combinatorial Optimisation in Logistics</td>
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<tr>
<td>Environment; Health and Safety, and Quality Management</td>
<td>Simulation of Industrial and Logistic Processes</td>
<td>+50% of master’s degree students are international students</td>
</tr>
<tr>
<td></td>
<td>Business Analytics</td>
<td>+60% of doctoral candidates are international students</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90% UPC master’s degree graduate employment rate</td>
</tr>
</tbody>
</table>

This information may be subject to change. Up-to-date information is available at upc.edu

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Source: 2nd graduate employment survey of graduates of Catalan universities by the Catalan University Quality Assurance Agency (AQU Catalunya)
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