Bachelor's degree in Aerospace Systems Engineering and Telecommunications Systems Engineering or Network Engineering (double degree)

This double degree, for which the admissions procedure requires applicants to pre-enrol but not take an entrance exam, provides multidisciplinary training in the fields of aerospace systems engineering and telecommunications systems engineering.

The Castelldefels School of Telecommunications and Aerospace Engineering (EETAC) teaches this double degree—the only one of its kind in Spain—with the aim of responding to the demand for highly qualified professionals in the telecommunications and aerospace engineering sectors.

Students graduate with two official bachelor's degrees after five years of study (including the bachelor's thesis). They can choose any one of the two majors of the bachelor's degree in Aerospace Systems Engineering and one of two degrees, in Telecommunications Systems Engineering or Network Engineering.

Majors

- Air Navigation
- Airports

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**GENERAL DETAILS**

**Duration**

5 years

**Study load**

367 ECTS credits (including the bachelor's thesis). One credit is equivalent to a study load of 25-30 hours.

**Delivery**

Face-to-face

**Fees and grants**

Approximate fees per academic year: €1,660 (€2,490 for non-EU residents). Consult the public fees system based on income (grants and payment options).

**Location**

Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)

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**ADMISSION**

**Places**

40

**Registration and enrolment**

What are the requirements to enrol in a bachelor's degree course?

**Legalisation of foreign documents**

All documents issued in non-EU countries must be legalised and bear the corresponding apostille.

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**ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS**
**Subjects** | **ECTS credits** | **Type**
--- | --- | ---
**FIRST SEMESTER**
Algebra and Geometry | 6 | Compulsory
Business Management | 6 | Compulsory
Calculus (Aeronautical Engineering) | 6 | Compulsory
Chemistry | 6 | Compulsory
Electronics for Telecommunications | 6 | Compulsory
Fundamentals of Physics | 6 | Compulsory
**SECOND SEMESTER**
Aerospace Technology and Air Transport | 6 | Compulsory
Further Mathematics | 6 | Compulsory
Graphic Expression | 6 | Compulsory
Informatics I | 6 | Compulsory
Linear Circuits and Systems | 6 | Compulsory
Mechanics | 6 | Compulsory
**THIRD SEMESTER**
Air Transport Infrastructure | 7.5 | Compulsory
Digital Circuits and Systems | 6 | Compulsory
Fundamentals of Telematics | 6 | Compulsory
Further Mathematics 2 | 7.5 | Compulsory
Informatics II | 4.5 | Compulsory
Thermodynamics | 6 | Compulsory
**FOURTH SEMESTER**
Airport Engineering | 6 | Compulsory
Digital Signal Processing | 6 | Compulsory
Electricity | 4.5 | Compulsory
Flight Mechanics | 3 | Compulsory
Fluid Mechanics | 7.5 | Compulsory
Materials Science and Technology | 6 | Compulsory
Sustainability of Aerospace Engineering | 3 | Compulsory
<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIFTH SEMESTER</strong></td>
<td></td>
<td></td>
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<tr>
<td>Aerodynamics</td>
<td>4.5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Aeronautical Communications 1</td>
<td>6</td>
<td>Optional</td>
</tr>
<tr>
<td>Airport Communications</td>
<td>6</td>
<td>Optional</td>
</tr>
<tr>
<td>Meteorology</td>
<td>3</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Models for Air Traffic Management</td>
<td>6</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Network Interconnection Techniques</td>
<td>6</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Operating Systems</td>
<td>6</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Structures and Strength of Materials</td>
<td>4.5</td>
<td>Compulsory</td>
</tr>
<tr>
<td><strong>SIXTH SEMESTER</strong></td>
<td></td>
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<tr>
<td>Electromagnetic Waves in Communication Systems</td>
<td>7.5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Electronic Circuits and Power Supply Systems</td>
<td>6</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Internet Architecture and Protocols</td>
<td>6</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Transmitters and Receivers</td>
<td>4.5</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

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