Bachelor's degree in Textile Technology and Design

On the bachelor's degree in Textile Technology and Design you will build on the common industrial engineering component and come to understand the fundamentals of textile materials and processes, the integral development of textile products and industrial garment making, linear textile structures and non-woven fabrics (technical and smart fabrics), processing and finishing operations, biopolymers, and global textile business logistics and management. When you complete it, you will be capable of understanding, selecting and using textile products and materials, including technical and smart fabrics; designing, optimising and developing technologies related to textile products and processes; and supervising and managing textile companies.

This bachelor's degree is taught at The School of Industrial, Aerospace and Audiovisual Engineering of Terrassa. ESEIAAT

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**GENERAL DETAILS**

**Duration**
4 years

**Study load**
240 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: €2,551 (€3,826 for non-EU residents). [Consult the public fees system based on income (grants and payment options)].

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

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**ADMISSION**

**Places**
270

**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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**DOUBLE-DEGREE AGREEMENTS**

**Double-degree pathways at a single school**
- Bachelor's degree in Textile Technology and Design Engineering / Bachelor's degree in Mechanical Engineering
- Bachelor's degree in Textile Technology and Design Engineering / Bachelor's degree in Industrial Design and Product Development Engineering
- Bachelor's degree in Textile Technology and Design Engineering / Bachelor's degree in Chemical Engineering

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**PROFESSIONAL OPPORTUNITIES**
Professional opportunities

- Design; management; commercial organisation and management of textile companies that develop their own technology and basic manufacturing companies; sales and logistics companies; and research centres.
- Design, implementation, operation and management of textile products, processes and facilities. Product development and production and quality management.
- Execution and management of industrial projects, consulting and services.
- International trade.
- Environment protection.
- Teaching and research.

ORGANISATION

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

Academic regulations
Academic regulations for bachelor's degree courses at the UPC

Language certification and credit recognition
Queries about language courses and certification

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

CURRICULUM

<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
<th>Type</th>
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<td><strong>FIRST SEMESTER</strong></td>
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<td>Chemistry</td>
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<td>Environmental Technologies and Sustainability</td>
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<td>Graphic Expression in Engineering</td>
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<td>Mathematical Methods I</td>
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<td>Physics I</td>
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<td>Foundations of Computing</td>
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<td>Materials for Textile Design</td>
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<td>Probability and Statistics</td>
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<td><strong>FIFTH SEMESTER</strong></td>
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<td>Bleaching and Dyeing Design Colorimetry</td>
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<td>Colouring Agents and Auxiliary Materials</td>
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<td>Design of Laminar Mesh Structures</td>
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<td>Design of Laminar Net Structures</td>
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<td>Design of Non-Woven Linear and Laminar Structures</td>
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<td>Air Pollution and Treatment Technologies</td>
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<td>Characterization Techniques for Metallic Alloys</td>
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<td>Clothesmaking with Textile Structures</td>
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<td>Creative Programming with Processing</td>
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<td>Decision Criteria - Engineer as Employee or Engineer as Entrepreneur</td>
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<td>Design of Dyeing, Printing and Coating Processes</td>
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<td>Dressing and Finishing Processes</td>
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<td>Energy Storage and Conversion Application</td>
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<td>Fundamentals of Robotics</td>
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<td>Introduction to Object-Oriented Programming</td>
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<td>Introduction to Reverse Engineering</td>
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<td>Technology, Society and Globalization: the Sustainability Challenge in the XXith Century</td>
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