Bachelor's degree in Industrial Design and Product Development
Terrassa School of Industrial, Aerospace and Audiovisual Engineering (ESEIAAT)

On the bachelor's degree in Industrial Design and Product Development you will train to be a qualified professional who will carry out industrial design activities and create new products, concepts and services that add value to the production process. You will acquire the necessary experience in design to plan and develop the entire lifecycle of a product, as well as key competencies in establishing and developing operational, functional, technical, constructive, aesthetic and communicative aspects of production and commercialisation. You will learn to generate virtual and physical models and prototypes, use manual and computer tools for calculation and artistic and industrial expression, process graphic information, and analyse and assess the social and environmental impact of technical solutions.

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

ADMISSION

Places
60

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.

DOUBLE-DEGREE AGREEMENTS

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

- Analysis and diagnosis of products and processes in companies in any industrial sector; technical, design, research and project departments; and new product development departments.
- Market analysis and identifying opportunities for new products; diagnosis in business innovation and strategy.
- Composition and formal analysis; modelling, simulation and development of models and prototypes.
- Ergonomics and aesthetics of industrial products and processes.
- Consultancy and advice.
- Freelance work: provision of consultancy and advisory services in design companies.
- Public administration.
- 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)

This bachelor’s degree is also taught at
- Vilanova i la Geltrú · EPSEVG · Show degree

Curriculum

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<thead>
<tr>
<th>Subjects</th>
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<td>Chemistry</td>
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<td>Environmental Technologies and Sustainability</td>
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<td>Mathematical Methods I</td>
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<td>Physics I</td>
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<td>Economics and Business Administration</td>
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<td>Foundations of Computing</td>
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<td>Graphic Representation Techniques</td>
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<td>Elasticity and Strength of Materials</td>
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<td>Characterization Techniques for Metallic Alloys</td>
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<td>Creative Programming with Processing</td>
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<td>Energy Efficiency Systems</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>Highly Automated Production Systems</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>Lightweight Materials for Engineering Applications</td>
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<td>Real-Time Programming and Database Systems</td>
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<td>Robotics and Automation</td>
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<td>Safety Robotics and Automation for Industry 4.0</td>
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<td>Smart Materials and User Experience</td>
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<td>Technology, Society and Globalization: the Sustainability Challenge in the XXith Century</td>
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**SEVENTH SEMESTER**

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<td>Initiation to Paper and Graphic Industrial Tecnologies</td>
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<td>Modelisation, Complexity and Sustainability</td>
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<td>Programming of Mobiles Android</td>
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<td>Workshop in Plastic Objects Design</td>
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**EIGHTH SEMESTER**

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March 2019. **UPC.** Universitat Politècnica de Catalunya · BarcelonaTech