Bachelor's degree in Mechanical Engineering  
Barcelona East School of Engineering (EEBE)

The bachelor’s degree in Mechanical Engineering, provides a solid grounding in the design, development and use of machinery; mechanical processes and systems; criteria for the selection of materials; and the structural design of production systems and processes. You will acquire the knowledge needed to analyse, calculate, design and test machines, industrial installations, hydraulic and thermal engines, industrial structures and constructions, and production systems. You will also receive multidisciplinary training in fluid mechanics, thermal technology, electricity, automation, the design and construction of industrial HVAC systems, and graphic engineering techniques.

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 (€3,827 for non-EU residents). Consult the public fees system based on income (grants and payment options).

Location
Barcelona East School of Engineering (EEBE)

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

ADMISSION

Places
225

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.

PROFESSIONAL OPPORTUNITIES

Professional opportunities
- Planning, management, execution and assessment of engineering projects related to mechanical engineering.
- Management, design, assembly and maintenance of industrial and production systems and installations in the fields of mechanical, electromechanical and thermal engineering and fluid mechanics.
- Calculation and design of hydraulic and thermal engines.
Projects in the industrial HVAC sector and the processing and transport of fluids.
Design, management and maintenance of equipment and industrial installations, structures and constructions.
Drafting of technical, advisory and feasibility reports.

ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

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

Barcelona East School of Engineering (EEBE)

This bachelor's degree is also taught at
- Manresa · EPSEM · Show degree
- Terrassa · ESEIAAT · Show degree
- Vilanova i la Geltrú · EPSEVG · Show degree

CURRICULUM

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<tr>
<th>Subjects</th>
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<td>Numerical Calculus. Differential Equations</td>
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<td>Physics II: Fundamentals of Electromagnetism</td>
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<td>Industrial Control and Automation</td>
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<td>Kinematics and Dynamics of Machines</td>
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<td>Industrial Structures and Constructions</td>
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**SEVENTH SEMESTER**

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<td>Automotive and Vehicles Safety</td>
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**EIGHTH SEMESTER**

| Bachelor's Thesis                                           | 24           | Project    |

April 2020. **UPC. Universitat Politècnica de Catalunya · BarcelonaTech**