Bachelor's degree in Telecommunications Systems

Bachelor's degree in Telecommunications Systems provides the cross-disciplinary training needed to conceive, design, implement and operate telecommunications systems based on generating, transmitting, receiving and processing electrical, acoustic and optical signals across the frequency spectrum, and the processing of associated information. You will learn the fundamentals and applications that will qualify you to design, implement and operate any telecommunications product, infrastructure or service based on radio systems – whether fixed or mobile, terrestrial or satellite – or on optical communications.

This bachelor's degree is taught at Castelldefels School of Telecommunications and Aerospace Engineering

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).

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

ADMISSION

Places
100 / 20 (February 2020)

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 Telecommunications Systems Engineering / Bachelor’s degree in Network Engineering

PROFESSIONAL OPPORTUNITIES

Professional opportunities
- Design and development of telecommunications, telematic, audiovisual and electronic systems.
- Design and implementation of ICT systems and applications.
- Administration and operation of telecommunications and hardware.
- Programming and development of telecommunications applications.
- Project supervision and management in ICT companies.
- Freelance work: consultancy and advisory services.
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

Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)

CURRICULUM

<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
<th>Type</th>
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<tr>
<td><strong>FIRST SEMESTER</strong></td>
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<td>Business Management</td>
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<td>Calculus</td>
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<td>Electronics for Telecommunications</td>
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<td>Introduction to Computers</td>
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<td>Physics</td>
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<td>Linear Algebra and Applications</td>
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<td>Digital Signal Processing</td>
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<td>Network Interconnection Techniques</td>
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<td>Probability and Statistics</td>
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<td><strong>FOURTH SEMESTER</strong></td>
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<td>Electronic Circuits and Power Supply Systems</td>
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<td>Internet Architecture and Protocols</td>
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<td>Introduction to Technology Asset Management</td>
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<td>Optical Fiber Sensors: Technologies and Applications</td>
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<td>Smart Cities: Cybersecurity and Big Data</td>
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January 2020. **UPC. Universitat Politècnica de Catalunya - BarcelonaTech**