

# Bachelor's degree in Aerospace Systems Engineering and Telecommunications Sytems 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

# **GENERAL DETAILS**

#### Duration

5 academic 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

## Language of instruction

Check the language of instruction for each subject (and timetable) in the course guide in the curriculum.

Information on language use in the classroom and students' language rights.

## Fees and grants

Approximate fees per academic year: €1,107 (€2,553 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)

#### 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.

# 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

Castelldefels School of Telecommunications and Aerospace Engineering (EETAC)

#### CURRICULUM

Subjects	ECTS credits	Туре
FIRST SEMESTER		
Algebra and Geometry	6	Compulsory
Business	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

Subjects	ECTS credits	Туре
Flight Mechanics	3	Compulsory
Fluid Mechanics	7.5	Compulsory
Materials Science and Technology	6	Compulsory
Sustainability of Aerospace Engineering	3	Compulsory
FIFTH SEMESTER		
Aerodynamics	4.5	Compulsory
Aeronautical Communications 1	6	Optional
Airport Communications	6	Optional
Meteorology	3	Compulsory
Models for Air Traffic Management	6	Compulsory
Network Interconnection	6	Compulsory
Operating Systems	6	Compulsory
Structures and Strength of Materials	4.5	Compulsory
SIXTH SEMESTER		
Electromagnetic Waves in Communication Systems	7.5	Compulsory
Electronic Circuits and Power Supply Systems	6	Compulsory
Internet Architecture and Protocols	6	Compulsory
Transmitters and Receivers	4.5	Compulsory

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