UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Bachelor's Degree in **Aerospace Engineering**

Engineering and Architecture
Industrial and Aeronautical

School of Design Engineering
Building 7B
Campus of Vera (València)

4 courses
240 credits

Spanish,
valencian
and english

Credit 19,27€
(2020/2021)
It will make you eligible for scholarships

120 places

Cut-off marks

info@etsid.upv.es
+34 963 877 180
www.upv.es/titulaciones/GIA/

Introduction to the degree

The Bachelor's Degree in Aerospace Engineering aims to provide its future graduates with scientific and technical training, so that they can meet the needs of the aviation industry and administration, of air transport, and of research in the aeronautics and aerospace fields. The solid and profound scientific and technical training that it provides culminates in one of the following specific technology modules: Aircrafts, Air Navigation, Airports, Aerospace Equipment and Materials, and Propulsion. These modules qualify students for practising the profession of aeronautical technical engineer in each of the areas that it comprises.

International mobility

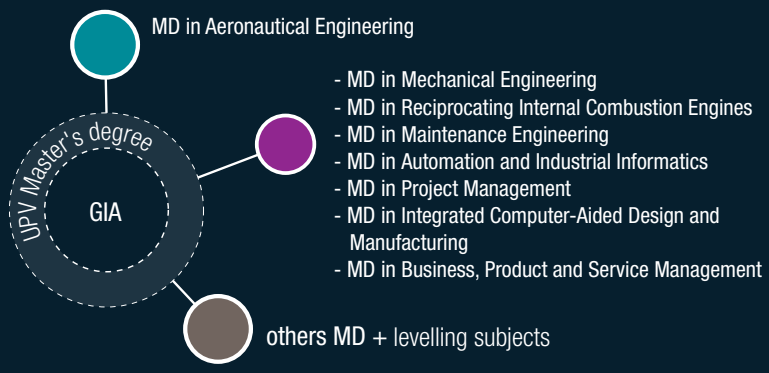
Students can complete their training abroad thanks to the numerous agreements with universities in Europe (Technische Universität München, Università degli Studi di Roma La Sapienza, University of Leeds...), America (University of Illinois, Georgia Institute of Technology...) and Australia (University of New South Wales).

Internships

Students of the Bachelor's Degree in Aerospace Engineering can do internships in companies (which in some cases include the preparation of the student's bachelor's thesis). Practices will be held in companies belonging to different industrial sectors -especially to the aerospace sector-, and their aim will be for students to get to know professional reality, under the tutelage of a company technician and a professor of the degree.

Continuation of studies

With this degree, you will be able to access to:



Professional opportunities

With this degree, which presents many varied job opportunities, you will be able to work in the aviation sector, in airlines, in the aviation and aerospace industry and infrastructure, in military aviation, in airport management... and also in the following sectors: car industry, transportation, telecommunications, energy, electronics, IT consulting... You can create your own business, or freely practise as an engineering advisor and consultant. Moreover, you can also choose a public administration career (as a European Union, national, regional or local administration civil servant or employee); or a career in research, development and innovation (at public or private education centres, or in R&D departments of large companies) or in teaching.

Study at the UPV

and be part of
Spain's best technological university
according to the Shanghai ranking

Enjoy our huge campuses with spaces designed for you such as the **Student Recreation House**.

You can do up to **40 sports** in our facilities.

You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support…

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Bachelor's Degree in Aerospace Engineering

Curriculum

Credits for obtaining the degree

Basic courses	Compulsory	Optional	Internship	TFG	Total
60.00	88.50	79.50	0.00	12.00	240.00

The subjects that you will be able to take

Basic courses

Business Administration
Chemistry
Computer Science
Mathematics I - II
Physics
Statistics
Technical Drawing

Compulsory courses

Aerodynamics
Aerospace Manufacturing
Aerospace Technology
Air Transport, Air Navigation, and Air Traffic Management
Airport Engineering
Automatic Control
Electrical Engineering
Electronic Engineering
Flight Mechanics
Fluid Mechanics
Material Science
Mathematics III
Mechanics
Propulsion
Strength of Materials
Thermodynamics

Elective courses

A. Mechanics
Academic and Professional French A1 - A2 - B1 - B2
Academic and Professional German A1 - A2 - B1 - B2
Academic and Professional Italian A1 - A2
Academic Writing Skills for Final Degree Projects
Advanced Flight Mechanics
Advanced Fluid Mechanics
Advanced Topics in Strength of Materials
Aerodynamics II
Aeroelasticity
Aeronautical Cartography
Aerospace Structures
Aerospatial Technology II
Air navigation, Cartography, and Cosmography
Air Navigation Infrastructures
Air Navigation Systems Engineering I - II
Air Traffic Management I
Air Transport Operation
Aircraft Design
Aircraft Maintenance
Airport Installations
Airport Planning and Design
Airspace Management II
Applications of Geographic Information Systems in Aerospace Engineering
Automatic Control Technology
B2 Level English
Combustion
Computer-Aided Aeronautic Design
Efficiency in Airport Electrical Grids
Electronic Technology
Embedded System Design, Validation and Certification
Embedded Systems for Navigation and Control
European Project Semester (EPS)
Experimental Techniques for Propulsion Systems
Flight Control Systems
Heat and Mass Transfer
Helicopters and Other Aircraft
Intercambio I
Intercambio II
Introduction to Aeronautical Engineering
Jet Engines and Aeroacoustics
Maintenance of Engines. Fuels and Lubricants
Materials for Aircrafts
Mechanical Vibrations
Orbits, Satellites and Relativity
Reciprocating Internal Combustion Engine
Rocket Engines
Scientific and Technical French - B1
Space Vehicles and Missiles
Structural Analysis of Propulsion Systems
Sustainable Development and Environmental Ethics
Technical English
Technical Valencian C1 - C2
Thermal Turbomachinery
University Cooperation for Development
Waves and Electromagnetic Propagation