

Bachelor's degree in Informatics Engineering

Vilanova i la Geltrú School of Engineering (EPSEVG)

Taking the **bachelor's degree in Informatics Engineering** provides the knowledge needed to conceive, design, develop, maintain and manage computer systems, services, applications and architectures and to understand and apply relevant legislation. You will also become an expert in new methods and technologies in the field of ICTs.

Major in Information Technologies will train you in the design and installation of computer networks and the applications needed to satisfy the needs of organisations in keeping with security requirements.

Majors

- Information Technologies

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: €1,660 (€2,490 for non-EU residents). [Consult the public fees system based on income \(grants and payment options\).](#)

Location

[Vilanova i la Geltrú School of Engineering \(EPSEVG\)](#)

Official degree

[Recorded in the Ministry of Education's degree register](#)

ADMISSION

Places

50

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

- Management, innovation and supervision of informatics in all kinds of organisations.
- Software development, advice, consulting and technological support in ICT companies and others.
- Teaching and research.
- Management posts such as information systems manager, development manager, production and commercialisation manager, and head of informatics.
- Technical or middle management posts such as project supervisor; functional analyst; head of department; consultant; database architect; quality, methodology or organisational officer; and systems architect.
- Technical posts such as database administrator, network and systems officer, and information systems security officer.

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](#)

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This bachelor's degree is also taught at

- Barcelona · FIB · [Show degree](#)

CURRICULUM

Subjects	ECTS credits	Type
FIRST SEMESTER		
Fundamentals of Mathematics	7.5	Compulsory
Fundamentals of Programming	7.5	Compulsory
Introduction to Computers	7.5	Compulsory
Physics	7.5	Compulsory
SECOND SEMESTER		
Computer Structure I	7.5	Compulsory
Discrete Mathematics	7.5	Compulsory
Logic and Algebra	7.5	Compulsory
Programming I	7.5	Compulsory
THIRD SEMESTER		
Computer Structure II	6	Compulsory
Information Structure	6	Compulsory
Introduction to Software Engineering	6	Compulsory
Operating Systems	6	Compulsory
Statistics	6	Compulsory
FOURTH SEMESTER		
Business	6	Compulsory

Subjects	ECTS credits	Type
Computer Architecture	6	Compulsory
Computer Networks	6	Compulsory
Further Software Engineering	6	Compulsory
Interaction and Interface Design	6	Compulsory
FIFTH SEMESTER		
Distributed and Network Operating Systems	6	Compulsory
Internet	6	Compulsory
Operating Systems Administration	6	Compulsory
Parallelism and Concurrency	6	Compulsory
Programming Project	6	Compulsory
SIXTH SEMESTER		
Databases Design and Administration	6	Compulsory
Future Internet	6	Compulsory
Information Technology Project	6	Compulsory
Multimedia Networks	6	Compulsory
Network Security and Administration	6	Compulsory
SEVENTH SEMESTER		
Academic and Professional Communication Techniques	6	Optional
Cross-Platform and Distributed Programming	6	Optional
Data Mining	6	Optional
Economics, Ethics and Society	6	Optional
Industrial Automation	6	Optional
Information Retrieval	6	Optional
Mobile Application Development	6	Optional
Writing Techniques for Engineering	6	Optional
EIGHTH SEMESTER		
Academic Skills for Project Development	6	Optional
Accessibility Applied	6	Optional
Agile	6	Optional
Emobility	6	Optional
Emobility Lab	6	Optional
Ict Business Management	6	Optional
Language Practice	3	Optional
Smart Cities	6	Optional
Social Robotics Workshop	6	Optional
Sustainability Applied	6	Optional
Text Data Processing and Mining	6	Optional
Wireless Networks: Technologies and Applications	6	Optional

Subjects	ECTS credits	Type
Bachelor's Thesis	18	Project

February 2021. [UPC](#). Universitat Politècnica de Catalunya · BarcelonaTech