

# 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.

This bachelor's degree is taught at [Polytechnic School of Engineering of Vilanova i la Geltrú. EPSEVG](#)

### Majors

- Information Technologies

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#### GENERAL DETAILS

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##### 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 (€3,826 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](#)

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#### ADMISSION

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##### 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

[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](#)

Vilanova i la Geltrú School of Engineering (EPSEVG)

### This bachelor's degree is also taught at

- Barcelona · FIB · [Show degree](#)

## CURRICULUM

Subjects	ECTS credits	Type
<b>FIRST SEMESTER</b>		
Fundamentals of Mathematics	7.5	Compulsory
Fundamentals of Programming	7.5	Compulsory
Introduction to Computers	7.5	Compulsory
Physics	7.5	Compulsory
<b>SECOND SEMESTER</b>		
Computer Structure I	7.5	Compulsory
Discrete Mathematics	7.5	Compulsory
Logic and Algebra	7.5	Compulsory
Programming I	7.5	Compulsory
<b>THIRD SEMESTER</b>		
Computer Structure II	6	Compulsory
Information Structure	6	Compulsory
Introduction to Software Engineering	6	Compulsory

<b>Subjects</b>	<b>ECTS credits</b>	<b>Type</b>
Operating Systems	6	Compulsory
Statistics	6	Compulsory
<b>FOURTH SEMESTER</b>		
Business	6	Compulsory
Computer Architecture	6	Compulsory
Computer Networks	6	Compulsory
Further Software Engineering	6	Compulsory
Interaction and Interface Design	6	Compulsory
<b>FIFTH SEMESTER</b>		
Distributed and Network Operating Systems	6	Compulsory
Internet	6	Compulsory
Operating Systems Administration	6	Compulsory
Parallelism and Concurrency	6	Compulsory
Programming Project	6	Compulsory
<b>SIXTH SEMESTER</b>		
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
<b>SEVENTH SEMESTER</b>		
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
<b>EIGHTH SEMESTER</b>		
Academic Skills for Project Development	6	Optional
Accessibility Applied	6	Optional
Ict Business Management	6	Optional
Language Practice	3	Optional
Sustainability Applied	6	Optional
Text Data Processing and Mining	6	Optional
Wireless Networks: Technologies and Applications	6	Optional
Bachelor's Thesis	18	Project

