

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 academic 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

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

Vilanova i la Geltrú School of Engineering (EPSEVG)

Official degree

Recorded in the Ministry of Education's degree register

ADMISSION

Places

55

Registration and enrolment

What are the requirements to enrol in a bachelor's degree course?

Legalisation of foreign documents

PROFESSIONAL OPPORTUNITIES

Professional opportunities

Major in Information Technologies

- Computer network administration.
- ICTs in companies and public administrations.
- Computer systems administration.
- Design, selection and implementation of computer and communications infrastructure.
- Data and access security in organisations.
- Implementation of new communications systems and protocols in the informatics sector.

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

Vilanova i la Geltrú School of Engineering (EPSEVG)

This bachelor's degree is also taught at

• Barcelona · FIB · Show degree

| CURRICULUM | | | |
|--------------------------------------|-----------------|------------|--|
| Subjects | ECTS credits | Туре | |
| 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 Compulsory FOURTH SEMESTER Business 6 Compulsory Computer Architecture 6 Compulsory Computer Networks 6 Compulsory Further Software Engineering 6 Optional Interaction and Interface Design 6 Optional FIFTH SEMESTER Secondary 6 Optional Agile 6 Optional Optional Distributed and Network Operating Systems 6 Optional Distributed and Network Operating Systems 6 Optional Distributed and Network Operating Systems 6 Optional Internet 6 Optional Internet 6 Optional Internet 6 Optional Internet 6 Optional Operating Systems Administration 6 Compulsory Programming Project 6 Optional SXTM SEMESTER Security and Administration 6 Optional Internation Technology Project 6 <th>Subjects</th> <th>ECTS credits</th> <th>Туре</th> | Subjects | ECTS credits | Туре |
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| Mobile Application Development 6 Optional | Industrial Automation | 6 | Optional |
| | Information Retrieval | 6 | Optional |
| Railway Technologies 6 Optional | Mobile Application Development | 6 | Optional |
| | Railway Technologies | 6 | Optional |

| Subjects | ECTS credits | Туре |
|--|-----------------|----------|
| EIGHTH SEMESTER | | |
| Accessibility Applied | 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 |
| Bachelor's Thesis | 18 | Project |

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