UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Bachelor's Degree in **Informatics Engineering**

Engineering and Architecture
Information and Communications Technologies

School of Informatics
Building 1G
Campus of Vera (València)

4 courses
240 credits

Spanish, valencian and english

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

375 places

Cut-off marks

etsinf@upv.es
+34 963 877 210
www.upv.es/titulaciones/GII/

Introduction to the degree

Computer systems enable to enjoy an improvement in the quality of life. In this sense, computer engineering is currently essential in the design and production of large projects such as electronic administration, savings management and internet purchases, the most sophisticated and clean means of transport, and automation solutions. Computer engineering trains qualified professionals to face challenges such as managing and coordinating teams that study the needs of companies and individuals, designing and developing solutions at all levels (material, processing, interconnection, etc.) and adapting the proposals to current standards.

The curriculum includes 48 ECTS of specialisation courses that are grouped into two different itineraries. One is held at the Escola Politècnica Superior in Alcoi and the second itinerary takes place at the School of Computer Engineering.

International mobility

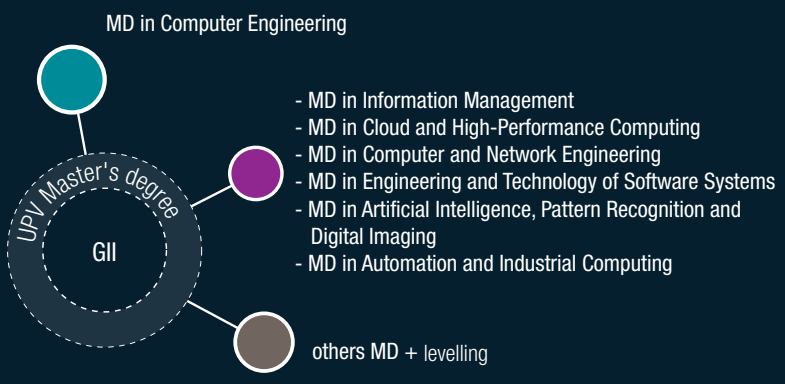
Computer engineering students have great flexibility when choosing international destinations in which to study for a semester, carry out their final degree project or take on internships in companies. There are agreements in place with some of the best European universities and also with universities in the United States, China, Japan and Australia.

Internships

The internship completes the student's training so that they can join the professional world with some technical and human experience. Some of the companies or institutions which accept UPV students for work placement opportunities are: Indra, Bull, British Telecom, Iberdrola or the Generalitat Valenciana (València's Government). In 98% of the cases the students receive financial compensation.

Continuation of studies

This degree provides access to:



Professional opportunities

According to the latest reports, there is a high deficit of graduates in the sector. The Degree in Computer Engineering qualifies to become a computer engineer that, although it is not a regulated profession, for these purposes it is considered as an equivalent.

Graduates in computer engineering are trained to manage companies in the information technology and communications sector (ICT) and informatics departments of companies and public institutions, take on various responsibility roles in development of computer systems, management and direction tasks.

They will be able to carry out their work in disciplines such as artificial intelligence, multimedia design, computer animation, videogame programming, mobile device programming, network and computer systems security, medical informatics, home automation, etc.

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 Informatics Engineering

Curriculum

Credits for obtaining the degree

Basic courses	Compulsory	Elective	Internship	TFG	Total
60.00	93.00	75.00	0.00	12.00	240.00

The subjects that you will be able to take

Basic courses

Algebra
Computer Fundamentals
Computer Technology.
Discrete Mathematics
Fundamentals of Business Management
Introduction to Computer Science and Programming
Mathematical Analysis
Physics Foundations on Computer Science
Programming
Statistics

Compulsory courses

Automata Theory and Formal Languages
Computer Architecture and Engineering
Computer Networks
Computer Organization
Concurrency and Distributed Systems
Data Structures and Algorithms
Databases and Information Systems
Ethics and Professionalism
Human-Computer Interfaces
Intelligent Systems
Network information system technology
Operating System Fundamentals
Parallel Computing
Programming Languages, Technologies and Paradigms
Project Management
Software Engineering

Elective courses

Academic and Professional French A1 - A2 - B1 - B2
Academic and Professional German A1 - A2 - B1 - B2
Academic and professional Italian A1 - A2
Advanced Architectures
Advanced data Analysis in Computer Engineering
Algorithm for Problem Solving
Algorithmics
Analysis and Specification of Requirements
Analysis of Business Requirements
Animation and Design of Videogames
Application Integration
Bioinformatics
Business Models and Company Functional Areas
Computability and Complexity
Computer-Assisted Control
Corporate Networks
Cryptography
Cybersecurity in Mobile Devices
Database Technology
Design and Configuration of Local Area Networks
Design and Management of Databases
Design, Configuration, and Evaluation of Computer Systems
Design of Digital Systems
Design of Operating Systems
Development of Applications for Mobile Devices
Diseño y Gestión de Sistemas de Información Genómicos
Diseño y Modelado 3D
Distributed System Design and Application
Edition and Postproduction of Digital Video
Hacking Ético
Industrial Formal Methods
Information Storage and Retrieval Systems
Information System's Architecture Management and Configuration
Integrated Information Systems in Organizations
Integration and Interoperability
Intelligent Agents
Interactive and Inmersive Multimedia Systems
Intercambio académico I - II - III - IV - V - VI - VIII
Introduction to Computer Security
Introduction to Interactive Computer Graphics Systems
Introduction to Videogame Programming
Lower Intermediate English for Computer Science
Machine Learning
Management and Configuration of Networks
Management of Information Technologies
Management of Innovation and Technology in Health
Mechatronics
Medical Informatics
Model Driven Software Development
Multimedia Networks
Network Services and Systems
Network Technology
Optimization Techniques
Organisational Behaviour and Change Management
Parallel Programming Languages and Environments
Perception
Programing Languages and Compilers
Project of Software Engineering
Quality and Optimization
Quantum Computing
Real-Time and Embedded Systems
Robotic Systems
Scientific and Technical French - B1
Scientific Computing
Security in Networks and Computer Systems
SI TI Service Management
Social web Behaviour & Network Analysis
Software Analysis, Validation and Debugging
Software Design
Software Maintenance and Evolution
Software Process
Software Quality
Strategic Information Systems
System Administration
Technical Valencian C1 - C2
Techniques, Tools and Applications of Artificial Intelligence
Upper Intermediate English for Computer Science
User-Centered Development
Video Game Console Architecture and Development Environments
Videogame Development Environments
Web Development
Web Security
Website Design
3D Printing

Internaionally accredited bachelor's degree (EURO-INF)