Bachelor's Degree in Informatics Engineering

**Engineering and Architecture**  
**Information and Communications Technologies**

Higher Polytechnic School of Alcoy  
Campus of Alcoy (Alcoy)

- 4 courses  
- 240 credits  
- Spanish, valencian and english  
- Credit 19.27€ (2020/2021)  
- It will make you eligible for scholarships  
- 66 places  
- Cut-off marks  
- 2020: 7.33  
- 2019: 7.33  
- 2018: 8.32  

info@epsa.upv.es  
+34 966 528 402  
www.upv.es/titulaciones/GII-A/

**Presentation 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 Alcoy 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 (Valencia’s Government). In 98% of the cases the students receive financial compensation.

**Continuation of studies**

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

- MD in Computer Engineering  
  - MD in Artificial Intelligence, Pattern Recognition and Digital Imaging  
  - MD in Automation and Industrial Informatics  
  - MD in Automation and Industrial Computing  
  - MD in Business Administration (MBA)  
  - MD in Computer and Network Engineering  
  - MD in Informatics Engineering and Networks  
  - MD in Information Management  
  - MD in Organization and Logistics  
  - MD in Cloud and High-Performance Computing  
  - MD in Engineering and Technology of Software Systems  
- others MD + levelling

**MD in Computer Engineering**

- MD in Artificial Intelligence, Pattern Recognition and Digital Imaging  
- MD in Automation and Industrial Informatics  
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- MD in Business Administration (MBA)  
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- MD in Organization and Logistics  
- MD in Cloud and High-Performance Computing  
- MD in Engineering and Technology of Software Systems  

**Career 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**

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…

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**and be part of Spain’s best technological university according to the Shanghai ranking**
Bachelor's Degree in Informatics Engineering

Credits for obtaining the degree

<table>
<thead>
<tr>
<th>Basic courses</th>
<th>Compulsory</th>
<th>Elective</th>
<th>Internship</th>
<th>TFG</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.00</td>
<td>93.00</td>
<td>75.00</td>
<td>0.00</td>
<td>12.00</td>
<td>240.00</td>
</tr>
</tbody>
</table>

The subjects that you will be able to take

**Basic courses**
- Algebra
- Computer Fundamentals
- Computer Technology
- Discrete Mathematics
- Introduction to Computer Science and Programming
- Introduction to Management
- Mathematical Analysis
- Physics Foundations on Computer Science
- Programming
- Statistics

**Compulsory courses**
- Automata and Formal Language Theory
- Computer Architecture and Engineering
- Computer Networks I - II
- Computer Structure
- 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

**Elective courses**
- Analysis of Business Requirements
- Application Integration
- Business Models and Company Functional Areas
- Computer System Design, Configuration, and Evaluation
- Computer System Security
- Computer Vision
- Corporate Networks
- Database Technology
- Design and Configuration of Local Area Networks
- Design and Management of Databases
- Development of Applications for Mobile Devices
- Digital Image Processing
- Digital Image Synthesis
- Distributed Systems Design and Applications
- Embedded Real-Time Systems
- English for Computer Science B2
- Entrepreneurs and Business Start-Ups
- French Language
- German Language I

Parallel Computing
- Programming Languages, Technologies and Paradigms
- Project Management
- Software Engineering

Information System Architecture Management and Configuration
- Integrated Information Systems in Organizations
- Internet of Things (IoT)
- Introduction to Videogame Programming
- Machine Learning in Industrial Environments
- Management and Configuration of Networks
- Management of Information Technologies
- Network Services and Systems
- Network Technology
- Organisational Behaviour and Change Management
- Parallel Programming Languages and Environments
- Quality and Optimization
- Robotic Systems
- Security in Networks and Computer Systems
- SI TI Service Management
- Smart System Technologies
- Strategic Information Systems
- System Administration
- Technical Valencian
- User-Centered Development
- Web Development

Internationally accredited bachelor's degree (EURO-INF)