Introduction to the degree

The aim of the studies of Electrical Engineering is to provide future professionals with scientific and technical training, so that they can meet the needs of the industry and the Government in this field. These studies consist of a basic training module, for acquiring a sound scientific basis adapted to electrical engineering; a training module which is common with the industrial branch, for developing general skills in industrial engineering; a specific training module in electricity, for developing specific skills related to the various fields of electrical engineering; and a final module, for developing different skills chosen by the student.

The Bachelor’s Degree in Electrical Engineering qualifies students for practising the profession of industrial engineering. The curriculum includes 48 ECTS of optional subjects, which are grouped into two itineraries; one is taught at the Polytechnic School of Alcoi and the other one is taught at the School of Design Engineering.

International mobility

There are numerous possibilities to complete your studies and do your bachelor’s thesis abroad at universities in the European Union, the United States, Latin America, Japan, Australia and several African countries.

Continuation of studies

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

- MD in Industrial Engineering
  - MD in Automation and Industrial Informatics
  - MD in Industrial Constructions and Installations
  - MD in Project Management
  - MD in Integrated Computer-Aided Design and Manufacturing
  - MD in Business, Product and Service Management
  - MD in Design Engineering
  - MD in Maintenance Engineering
  - MD in Occupational Risk Prevention

and be part of Spain’s best technological university according to the Shanghai ranking.
Bachelor's Degree in Electrical 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>
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<td>60.00</td>
<td>120.00</td>
<td>48.00</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
- Business Administration (TI1)
- Chemistry
- Computer Science
- Electricity
- Mathematics I - II
- Physics
- Statistics
- Technical Drawing

### Compulsory courses
- Advanced Electrical Machines
- Business Organization (IT1)
- Control of Machines and Electrical Devices
- Control Systems (TI1)
- Electrical Circuits
- Electrical Machines
- Electrical Power Systems
- Electronics
- Engineering Department
- Environmental Technology
- Fluid Mechanics
- High-Voltage Electrical Installations
- Industrial Automation and Control
- Industrial Production Systems
- Low-Voltage Electrical Installations

### Elective courses
- Machines and Mechanisms (IT1)
- Material Science
- Power Electronics (IT1)
- Power Lines and Transport of Electricity
- Renewable Energy
- Strength of Materials
- Thermal Engines and Hydraulic Machines
- Thermodynamics and Heat Transfer
- Three Phase Electrical Systems and Transitional System

### Internationally accredited bachelor’s degree (EUR-ACE)