Bachelor’s Degree in Telecommunications Systems, Sound and Image Engineering

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

Higher Polytechnic School of Gandia
Campus of Gandia (Gandia)

- 4 courses
- 240 credits
- Spanish and valencian
- Credit 19.27€ (2020/2021)
- 50 places
- Cut-off marks:
  - 2020: 9,062
  - 2019: 9,952
  - 2018: 6,667
- epsis@upv.es
- +34 962 849 333
- www.upv.es/titulaciones/GISTSI/

**Introduction to the degree**

This degree aims to teach students the functioning of systems that are used to encode, transmit, receive and process information in any format. Information may be given in different formats such as audio, video or data through different media (Internet, mobile communication systems, etc.). In addition, the programme of this degree includes the study of audio systems and equipment, as well as the design of facilities for the production and recording of audio-visual material.

The curriculum has a practical approach. Students will experience situations that will be similar to the ones they will encounter when they have finished their degree. They will also analyse and value the social and environmental impact of different issues. You can also take courses in languages, economics, business management and programming.

This degree enables you to work as a telecommunications engineer in the specializations of Sound and Vision or Telecommunication Systems. For this, you will need to choose between the optional courses that are offered in the Gandia campus.

**International mobility**

The school encourages its students to travel, and for this reason it has signed numerous exchange agreements with universities all around Europe and also with universities in Argentina, Australia, Brazil, Canada, China, the USA, Japan, Mexico, etc.

**Internships**

The school has signed many internship agreements (most of them remunerated) with companies in the sector. The UPV’s international agreements allow students to do internships abroad.

In general, internships are a good opportunity to get some professional experience before finishing your studies, and also to obtain some optional credits (a maximum of 18 ECTS), and also carry out your final degree project in the same company you did your internship with.

**Continuation of studies**

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

- MD in Telecommunications Engineering
- MD in Acoustic Engineering
- MD in Digital Post Production
- MD in Telecommunication Technologies, Systems and Networks
- others MD + levelling subjects

**Professional opportunities**

Once you graduate, the employment opportunities are varied, ranging from companies specialized in telecommunications, mobile telephony, electronics, programming, telematics, cable and digital TV, internet, etc., to those in the audio-visual sector, such as radio and television, dubbing, acoustic conditioning studios, as well as consultancies.

With this degree, you can also become self-employed and work as a technician in the public sector (traffic, airports, etc.), as well as teach and do research.

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…
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### 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></td>
<td>76.50</td>
<td>0.00</td>
<td>12.00</td>
<td>240.00</td>
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</table>

The subjects that you will be able to take

#### Basic courses
- Business Economy for Telecommunications
- Circuit Analysis
- Electronic Circuits
- Electronic Devices
- Mathematics 1
- Mathematics 2
- Physics
- Programming 1
- Signals and Systems

#### Compulsory courses
- Acoustics
- Broadcast Networks for Video and Audio
- Communication Networks and Architecture
- Communication Theory
- Computer Networks and Services
- Conversion and Control of Energy
- Digital Communication
- Digital Signal Processing
- Digital Systems Principles
- Electromagnetic Fields
- English for Telecommunications Engineering
- Microprocessors Based Systems
- Programmable Digital Systems
- Programming 2
- Propagation
- Telecommunication Networks and Systems 1 - 2
- TV and Video Systems

#### Elective courses
- Academic English
- Acoustic Transducers and Instrumentation
- Advanced Instrumentation
- Antennas and Radio Propagation
- Architectural Acoustics
- Audio Equipment and Systems
- Audio-Visual Facilities
- Basic Technical German Course
- Biomedical Instrumentation
- Control
- Desarrollo De Competencias Específicas 1 - 3
- Desarrollo De Competencias Trasversales 1 - 4
- Digital Audio Processing
- Digital Image and Video Processing
- Effective Oral Presentations
- Electronics Applied to Audio
- Entrepreneurship
- Environmental Acoustics Engineering
- High Frequency and Microwave Circuits
- Mat Lab for Telecommunications Engineering
- Math Tools for Telecommunications
- Multimedia Data Streams
- Optical Communications
- Optical Networks
- Project A - B
- Signal Processing in Communications
- Smartphone Programming
- Ultrasound and Industrial Applications
- Valencia Tècnic
- Wireless Communication Systems

Internationally accredited bachelor’s degree (EUR-ACE)