Introduction to the degree

Students are awarded the Degree in Mathematics and the Degree in Telecommunications Technology and Services Engineering.

The programme trains professionals with a rigorous training in mathematics, with a high qualification and a versatile profile, while acquiring a solid training in order to address problems in the fields of communication technologies, telematics, electronics and audiovisual and multimedia engineering.

This double degree responds to a growing demand in the world of science, technology and industry, and has a very high employability rate.

International mobility

Several agreements have been signed with Spanish and international universities and it is possible to enjoy stays abroad and take advantage of academic exchanges for any of the two degrees.

Internships

These studies have a clear applied approach and therefore offer students a wide range of internships in companies or research entities, both in the Valencian Community and in other regions.

Continuation of studies

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

- MD in Telecommunications Engineering
- MD in Biomedical Engineering
- MD in Cybersecurity
- MD in Intelligent Transportation Systems
- MD in Telecommunication Technologies, Systems and Networks
- MD in Electronic Systems Engineering
- MD in Acoustic Engineering
- MD in Mathematical Research
- MD in Telecommunications Engineering
- MD in Biomedical Engineering
- MD in Cybersecurity
- MD in Intelligent Transportation Systems
- MD in Telecommunication Technologies, Systems and Networks
- MD in Electronic Systems Engineering
- MD in Acoustic Engineering
- MD in Mathematical Research

Professional opportunities

Thanks to the double profile of the degree, it is possible to develop any of the professional activities for which both degrees enable students.

This double degree provides added value as expert in physical-mathematical modelling of ICT solutions, and as data and system optimization analyst, so that graduates can apply this knowledge in companies in the fields of: operation of telecommunications networks and systems, consulting and telecommunication engineering, maintenance and security of data networks, etc.

Alternatively, students can also access administration, teaching or research opportunities.

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 70 sports in our facilities.

You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support…
Bachelor's Double Degree in Mathematics + Telecommunications Technology and Services 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>84.00</td>
<td>204.00</td>
<td>48.00</td>
<td>0.00</td>
<td>24.00</td>
<td>360.00</td>
</tr>
</tbody>
</table>

The subjects that you will be able to take

**Basic courses**
- Calculus
- Circuit Theory
- Differential Equations I
- Discrete Mathematics
- Electronic Circuits
- Electronic Devices
- Linear Algebra and Geometry I
- Numerical Analysis
- Organisation and Management of Companies
- Physics I - II
- Programming
- Signals and Systems
- Statistics

**Compulsory courses**
- Acoustics
- Algebraic Structures I – II
- Algebraic Topology
- Calculus in Several Variables
- Communication Theory
- Complex Variable
- Curvilinear and Surface Integration
- Design of Telematic Services
- Differential Equations II
- Differential Geometry
- Digital Signal Processing
- Energy Conversion and Processing
- Fourier analysis
- Fundamentals of Computers
- Fundamentals of Digital Systems
- Fundamentals of Telematics
- Fundamentals of Transmission
- General Topology
- High Performance Computing
- Linear Algebra and Geometry II – III
- Microprocessor Systems
- Modelling
- Multimedia Communications
- Multiple Integral
- Numerical Resolution of Linear and Non-Linear Systems
- Numerical Resolution of Partial Differential Equations
- Operational Research

**Elective courses**
- Antennas
- Digital Communications
- Digital Signal Processing in Communications
- Microwave
- Mobile and Wireless Communications
- Radiocommunications
- Radiodetermination
- Space Communications
- Technologies and Systems in Access Networks
- Transmission Lines
- Optical Communications
- Predictive and Classification Models
- Programmable Digital Systems
- Radiation and Wave Propagation
- Statistical Inference
- Telematic Applications
- Telematic Architectures
- Telematic Networks