UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Bachelor's Degree in **Telecommunication Technologies and Services Engineering**

Engineering and Architecture
Information and Communications Technologies

School of Telecommunications Engineering
Building 4D
Campus of Vera (València)

4 courses
240 credits

Spanish, valencian and english

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

165 places

Cut-off marks

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+34 963 877 190
www.upv.es/titulaciones/GITST/

Introduction to the degree

The Bachelor's Degree in Telecommunication Technologies and Services Engineering introduces students to the techniques and technologies required to resolve problems relating to signal transmission and receiving and communication networking. Students also study the design of electronic communications systems. This degree trains students to work in the fields of communications and, telematic and electronic technologies, as well as multimedia and audiovisual engineering.

Telecommunications studies are in high economic and social demand, and provide future graduates with a professional profile which will be successful and valued due to their extensive knowledge of state-of-the-art technologies, in addition to their adaptation skills and great versatility.

The Bachelor's Degree in Telecommunication Technologies and Services Engineering qualifies for practising the regulated profession of Technical Engineer in Telecommunication. In addition, this program is the reference degree to access to Master's Degree in Telecommunication Engineering at UPV.

International mobility

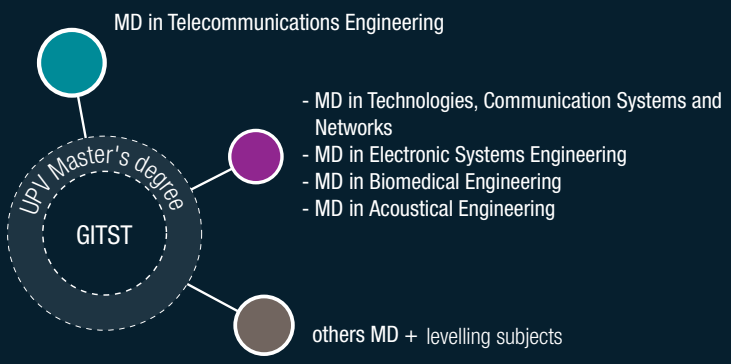
The School of Technical Telecommunications Engineering has entered into a number of exchange and dual degree agreements with universities around the world. These universities are mainly located in Europe, but also in the USA, Canada, Australia and Japan. Therefore, students are able to complete part of their studies abroad or in other Spanish universities through exchange programs (Erasmus, Séneca, Promoe, etc.) and may also obtain a dual degree upon completion.

Internships

These Studies have a clearly practical focus, which is reflected in the many practicums and labs done throughout the degree program, as well as the wide selection of internships at companies and research entities in the last two academic years (recognised with up to 24 ECTS), which is an important factor for learning and subsequent employability.

Continuation of studies

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



Professional opportunities

This bachelor's degree enables you to work in all the specialized fields of technical telecommunications engineering. The education you receive will allow you to hold positions within the management teams of private firms or public institutions, and to lead and manage research and development projects in the most advanced technologies. The jobs you can choose include the following:

Private sector: companies designing and using telecommunications services, large telecommunications, aerospace, security, consulting, ICT, radio and television, banking and electronic commerce companies, as well as telecommunications-related SMEs.
Freelancing: in project work, the provision of expert opinions, and facilities, as well as the start-up of technology-based companies.
Public Administration: mainly in ICT areas.
Research, development and innovation: in public and private centres and the R&D+i departments of large enterprises.

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

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Curriculum

Credits for obtaining the degree

Basic courses	Compulsory	Elective	Internship	TFG	Total
63.00	99.00	66.00	0.00	12.00	240.00

The subjects that you will be able to take

Basic courses

Circuit Theory
Electronic Circuits
Electronic Devices
Fundamentals of Business Organisation and Management
Mathematics I - II
Physics I - II
Programming
Signals and Systems

Compulsory courses

Acoustics
Communication Theory
Computer Fundamentals
Design of Telematics Services
Digital Fundamentals
Digital Signal Processing
Electromagnetic Waves
Foundations of Networking
Integration of Digital Systems
Mathematics III
Microprocessors Based Systems
Multimedia Communications
Networking Architectures
Optical Communications
Probability and Random Signals
Processing and Energy Conversion
Programmable Digital Systems
Telecommunication Networks
Telematics Applications
Transmission Fundamentals

Elective courses

Academic and Professional French A1 - A2 - B1 - B2
Academic and Professional German A1 - A2 - B1 - B2
Academic and professional Italian A1 - A2
Access Networks
Analog and Mixed Signal Microelectronics
Antennae
Applications with Microcontrollers
Architectural Acoustics
Audio Equipment and Systems
Audio-Visual Production
Audio-Visual Projects and Installations
Biologically Inspired Complex Systems
Biomedical Instrumentation
Corporate Networks
Data Communication
Design of Electronic Systems
Digital Audio Processing
Digital Communications
Digital Signal Processing for Communications
Digital Signal Processors DSP
Electronic Communication Systems
English for Academic and Professional Purposes (level B2)
Environmental Acoustics
Image Processing
Instrumentation and Quality
Integrated Analogue Devices
Local Area Networks
Microwaves
Mobile and Wireless Communications
Network Security
Network Switching
Network Systems Engineering
Optical Communication Systems
Public Access Networks
Public Transport Networks
Radar
Radio Communications
Satellite Communications
Sensors
Technical Valencian C1 - C2
Telecommunications Policy
Telematics Systems for Information Management
Transmission Lines
Video and Audio Signals Distribution
Video Systems
VLSI Fundamentals

Internaionally accredited bachelor's degree (EUR-ACE – ABET)