



Master's Degree in
**Telecommunication
Engineering**



What is the master's degree about?

This master qualifies you as an Telecommunications Engineer, by virtue of what is set out in the Order CIN /355/2009, of February 9. It allows you to work with communication systems, state of the art internet technology, voice distribution networks, video and television, streaming, P2P networks, fixed systems and networks, mobile and satellite communications, radar systems, radio navigation, positioning systems, information processing, instrumentation electronics, electronic components and micro-circuits processors, analogic and digital electronics, medical instrumentation, consumer electronics, control systems, bioengineering applications, electronic micro and nanotechnologies, telemedicine, e-commerce platforms, systems based on wireless network sensors, biometric identification, among many others.

What career opportunities do I have?

With this degree you will be a Telecommunications Engineer. It will allow you to work in, among others, the following fields:

- Any IT company.
- Telecoms Operators.
- Consulting companies, planning, design, development of solutions, project leadership.
- Telecommunication and electronics equipment manufacturing.
- Software companies in general and app and web development.

- Consultant/Freelance.
- Public Administration and IT regulatory bodies.
- National and international industrial, services or sales sector.
- Teaching and research.

You will also have a career guidance service that can provide personalized assistance:

 <https://empresayempleo.ulpgc.es/emplea/>

Who is it aimed at?

Telecommunications Engineering students, Engineering and Telecommunications graduates as well as those with higher education studies related to this master's degree. In the last two cases, those admitted must take some complementary courses, depending on the student prior qualifications.

Who teaches it?

ULPGC Faculty doctoral lecturers of the Electrical and Automation Engineering, Telematic Engineering and Signals and Communications departments.

Academic Itinerary.

You can access ULPGC Doctoral programs linked to IT and Communications.

CURRICULUM

Total number of credits: **120**

Number of qualification credits: **18** (depending on previous qualifications)

Number of credits for Master's Thesis: **18**

Number of optional credits: **18**

Subjects / credits

FIRST YEAR .

1st Semester

- Tecnologías y Arquitecturas de redes de Comunicación Emergentes (Emerging Communication network technologies and architectures) / 6
- Tratamiento de la Señal en Telecomunicaciones (Signal Processing in Telecommunications) / 4,5

Complementary Courses

- Servicios y Aplicaciones telemáticas (Telematic Services and Applications) / 4,5
- Tecnologías de Acceso y Transporte (Access and Transport Technologies) / 4,5
- Procesado de Señal y Comunicaciones (Signal Processing and Communications) / 4,5
- Transmisión y Propagación (Transmission and Propagation) / 4,5
- Diseño de Hardware Programable (Programmable Hardware Design) / 4,5
- Integración de Sistemas Electrónicos (Electronic Systems Integration) / 4,5

2nd Semester

- Interoperabilidad y Convergencia de Redes y Servicios (Interoperability and Convergence of Networks and Services) / 6
- Ingeniería de Sistemas de Instrumentación (Instrumentation Systems Engineering) / 6
- Sistemas Integrados (Integrated Systems) / 6
- Comunicaciones Inalámbricas y Ópticas (Wireless and Optical Communications) / 4,5
- Sistemas vía Satélite, Radionavegación y Radar (Satellite, Radionavigation and Radar Systems) / 4,5
- Subsistemas de Radiofrecuencia y Antenas (Radio Frequency Subsystems and Antennas) / 4,5

E SECOND YEAR .

1st Semester

- Planificación, Dimensionado y Gestión de Redes de Comunicación (Planning, Dimensioning and Management of Network Communication) / 6
- Diseño Electrónico Orientado a Producto (Product Oriented Electronic Design) / 6

OPTIONAL

- Sistemas Electrónicos para IoT (Electronic Systems for IoT) / 4,5
- Tecnologías Inhalámbricas para IoT (Wireless Technologies for IoT) / 4,5
- Ciberseguridad y Tecnologías de Seguridad Emergentes (Cybersecurity and Emerging Security Technologies) / 4,5
- Redes Definidas por Software y Nuevos Servicios Multi-media (Software Defined Networks and New Multi-Media Services) / 4,5
- TIC en Sostenibilidad y Medioambiente (ICT for Sustainability and Environment) / 4,5
- Procesado de Señales Biomédicas (Biomedical Signal Processing) / 4,5
- Machine Learning y Big Data en Telecomunicaciones (Machine Learning and Big Data in Telecommunications) / 4,5
- Marketing y Liderazgo en Empresas TIC (Marketing and Leadership in ICT Companies) / 4,5

2^{sd} Semester

- Gestión de Proyecto (Project Management) / 6
- Inglés Comunicativo para Ingenieros de Telecomunicación (English for Telecommunication Engineers) / 6
- Trabajo Fin de Máster (Master's Final Project) / 18

How do I study it?

You'll learn on your own (independent study) and you'll attend master classes, practical classes, laboratories classes, and seminars and tutoring sessions. You'll also carry out project work, and assessment activities. This master's degree is on-site, and you will be asked to reach a minimum attendance level in each subject. You will also have the Virtual Campus platform for academic and administrative procedures, as well as for uploading assignments, requesting for virtual tutorials, downloading the syllabus or taking part in forums, among many other features. The University Library, which you can access either in person or virtually will provide you with all the information you need.

Will I have an international CV?

You will be able to participate in international programs that will improve your training and we will also provide you with language learning services

? <https://internacional.ulpgc.es>
<http://auladeidiomas.ulpgc.es>
<https://craal.ulpgc.es>

Requirements.

They will depend on the school you belong to: ULPGC students or other Spanish universities, people with university degree taken in another European country or with a non-EU degree. You will also need a certified B1 English level.

? www.ulpgc.es/masteres-administracion

Access.

Firstly, you must pre-enroll, usually in the second half of June. In certain cases you will have until the first week of September. You can enroll between July and September, depending on when you pre-enrolled.

? www.ulpgcparati.es

Why choose the ULPGC?

We offer high-quality certified training, which has been externally audited, at public university prices. We have a wide range of services (sports, culture, languages, accommodation, library, rooms computing, universities of summer, wifi connection in all the campuses) that will make your stay easy and comfortable. In addition, the ULPGC is one of the top 10 best universities in Spain in employability (Everis Foundation, 2018).



www.ulpgc.es/estudios

More Info

Escuela de Ingeniería
de Telecomunicación y
Electrónica
Tel: 928451218
www.eite.ulpgc.es
email: admon_teleco@ulpgc.es

Student Information
Service
Tel: +34 928 45 10 75
sie@ulpgc.es