Bachelor Degree in

Telecommunication Technologies Engineering

ULPGC
Universidad de
Las Palmas de
Gran Canaria

www.ulpgc.es

What is it?

Telecommunications Engineering is a branch of engineering that focuses on the transmission and reception of signals and the interconnection of networks.

It covers technologies such as radio, television, telephone, data communication, computer networks like internet, satellites... Telecommunications enable, among other things, e-commerce, the internet of things, remote working, content streaming.

What is it for?

We will get you ready to work in ICT, capable of managing mathematical environments, computer systems, electronic communications and signals.

You will also develop organizational skills, open mindedness, perseverance and adaptation to logical technological progress. Your knowledge of abstract and reasoning space will allow you to address real world tech problems.

Will I have an international CV?

You will be able to take part in national and international mobility programs, some exclusive to the ULPGC, that will improve your training and your knowledge of languages. You will also learn languages through the Aula de Idiomas (ULPGC Language School) and CRAAL, our free, online self-study platform.

https://internacional.ulpgc.es

http://auladeidiomas.ulpgc.es

https://craal.ulpgc.es

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/bolsa-de-empleo-emplea/

How do I study it?

This degree is an on-site classroom course and, along with the teacher-led classes, you will have access to the Virtual Campus platform. This platform will allow you to follow online activities and tutorials, send in your assignments and access course content and forums, among other features. You can also do all the necessary academic and administrative paperwork via the platform. Furthermore, via the University Library, you can find, in person or virtually, all the information you need.

CURRICULUM

	First semester		Second semester	
1°	• Álgebra (Algebra)	6	• Cálculo II (Calculus II)	6
	• Cálculo I (Calculus I)	6	• Estadística y Procesos Estocásticos (Statistics and Stochastic Processes)	6
	• Física (Physics)	6	• Campos Electromagnéticos y Ondas (Electromagnetic Fields and Waves)	6
	• Informática (IT)	6	• Circuitos Eléctricos (Electrical Circuits)	6
	• *Ingeniería* de Telecomunicación y Sociedad (Telecommunications Engineering and Society)	6	• Programación (Programming)	6
	• *Historia de las Telecomunicaciones* (History of Telecommunications)	6		
2°	• Economía y Gestión de Empresas (Business Economics and Management)	6	• Sistemas Audiovisuales y Multimedia (Audiovisual and Multimedia Systems)	6
	• Señales y Sistemas (Signals and Systems)	6	• Teoría de la Comunicación (Communication Theory)	6
	• Electrónica Básica (Basic Electronics)	6	• Medios de Transmisión (Transmission Media)	6
	• Redes de Comunicación (Communication Networks)	6	• Arquitectura de Redes (Network Architecture)	6
	• Electrónica Digital (Digital Electronics)	6	• Electrónica Analógica (Analogue Electronic)	6
3°	• Sistemas e Infraestructuras de Telecomunicación (Telecommunication Systems and Infrastructures)	6	• Inglés (English)	6
			• Sistemas Electrónicos de Control (SE) (Electronic Control Systems)	6
	• Infraestructuras de Energía (Energy Infrastructures)	6	• Electrónica de Potencia (SE) (Power Electronics)	6
	• Programación de Redes, Sistemas y Servicios (Network, Systems Programming and Services)	6	• Hardware Programable (SE) (Programmable Hardware)	6
			• Instrumentación Electrónica (SE) (Electronic Instrumentation)	6
	• Sistemas Digitales y Microprocesadores (Digital Systems and Microprocessors)	6	• Servicios de Radiocomunicación (ST) (Radiocommunication Services)	6
			• Procesado de la Señal (ST) (Signal Processing)	6
	• Sistemas Análogicos y de Señal Mixta (SE) (Analog and Mixed Signal Systems)	6	• Microondas (ST) (Microwaves)	6
			• Electrónica de Comunicaciones (ST) (Communications Electronics)	6
	• Antenas (ST) (Antennas)	6	• Administración de Sistemas (TM) (Systems Administration)	6
	• Redes de Área Extensa (TM) (Wide Area Networks)	6	• Diseño de Aplicaciones (TM) (Application Design)	6
	• Sistemas Electroacústicos (SI) (Electroacoustic Systems)	6	• Organización de Computadores (TM) (Computer Organization)	4,5

• Aplicaciones de Red (TM) (Network Applications)	7,5
• Producción de Televisión (SI) (Television Production)	6
• Sistemas y Difusión de Televisión (SI) (Television Systems and Broadcasting)	7,5
• Ingeniería de Audio (SI) (Audio Engineering)	4,5
• Sistemas y Producción de Audio (SI) (Audio Systems and Production)	6

4º

• Innovación Empresarial (Business Innovation)	6
• Proyectos de Ingeniería Eléctrica y Electrónica (SE) (Electrical Engineering Projects and Electronics)	6
•Electrónica de Comunicación (SE) (Communication Electronics)	6
• Integración de Equipos (SE) (Equipment Integration)	6
•Sistemas Electrónicos (SE) (Electronic Systems)	6
• Comunicaciones ópticas (ST) (Optical Communication)	6
• Proyectos de Telecomunicación (ST) (Telecommunication Projects)	6
•Radiodeterminación y Navegación (ST) (Radiodetermination and Navigation)	6
•Telecomunicaciones Móviles y por Satélite (ST) (Mobile and Satellite Telecommunications)	6
•Proyectos Avanzados de Ingeniería Telemática (TM) (Advanced Telematic Engineering Projects)	6
•Programación Web (TM) (Web programming)	6
•Programación en Entornos Multidispositivos (TM) (Multi-device Environment Programming)	6
•Redes de Comunicaciones Móviles (TM) (Mobile Communications Networks)	6
•Proyectos e Infraestructuras Audiovisuales (SI) (Audiovisual Projects and Infrastructures)	6
•Postproducción Digital y Animación (SI) (Digital Postproduction and Animation)	6
•Tecnologías de la Imagen y Vídeo (SI) (Image and Video Technologies)	4,5
•Acústica Arquitéctonica y Ambiental (SI) (Architectural and Environmental Acoustics)	7,5

• Competencias Comunicativas en Inglés (Communication skills in English)	6
• Prácticas en Empresa (Work Experience / Internship)	12
• Trabajo Fin de Grado (End of Degree Project)	12

Basic and compulsory subjects (234 credits)

Elective subjects (6 credits)

Specialties (4):

-Sistemas Electrónicos (SE) (Electronic Systems)

-Telemática (TM) (Telematics)

-Sistemas de Telecomunicación (ST) (Telecommunication Systems)

-Sonido e Imagen (SI) (Sound and Image)

How do I enroll?

Firstly, you will need to pre-enroll which can be done either via
your school in April, or directly via the ULPGC at ulpgcparati.es in the second half of June. After, when the pre-enrolment process is finished and you are assigned a spot, you can enroll.

www.ulpgcparati.es

What financial assistance do I have?

You may apply for scholarships offered by the Ministry of Education and Vocational Training, the Canary Islands Government and the Island Councils. In the second year, those enrolled are eligible for scholarships and ULPGC own aid.

https://www.ulpgc.es/becas

Why choose the ULPGC?

We offer high-quality certified training, which has been externally audited, at public university prices.
We have awide 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 (EverisFoundation, 2018).

www.ulpgc.es/estudios

More Info
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