

Label	EUR-ACE®
Higher Education Institution	UNIVERSIDAD CARLOS III DE MADRID
Country	SPAIN
State/Province	MADRID
Name of the Programme	BACHELOR'S DEGREE IN TELECOMMUNICATION TECHNOLOGIES ENGINEERING
Degree Awarded	BACHELOR'S DEGREE IN ENGINEERING
Qualification Level	First Cycle
Programme Objectives; Profile	<p>The aim of the degree is to train experts in the field of Telecommunication Technologies Engineering who are trained excellently to solve the challenges of today's society, with proven skills in the analysis, design and development of telecommunication technologies (electronic systems, signal processing, signal propagation in different physical media, communications networks and telematics applications and services). The rise of telecommunications has made information and communications technologies to be present in all areas of society. From the business environment for domestic, educational and social challenges, to the public services domain, telecommunication has become essential for our lives. The speed at which technology evolves indicates an expectation of a growing need for skilled professionals in telecommunication technologies. This degree is a generalist profile within the field of telecommunications, preparing the graduate for access to the Master in Telecommunication Engineering or for professional practice.</p> <p>The profile of a graduate who has successfully completed studies for this degree includes firstly, knowledge and understanding of the general basics of engineering in particular telecommunication technologies, with a balanced ratio of the three basic areas of knowledge: communications, telematics and electronics. Graduates will be able to follow analytical processes for solving problems in the field of telecommunications systems and will be able to carry out engineering design in their discipline, working in a team. Graduates will also be able to carry out research and make innovative contributions within the field of telecommunication technologies, thus justifying the scientific interest in this degree. Finally, graduates will be able to apply their knowledge to solving problems and designing telecommunication devices, while maintaining an awareness of the environmental, commercial and industrial implications of engineering practices in</p>

	<i>accordance with professional ethics; this is of vital importance in the professional aspect of this degree. Finally, this degree provides the generic skills that graduates will need in their engineering profession in society today, as written and oral communication skills will be required, along with working in a multidisciplinary framework as part of a team, and an ability to maintain their professional competence through a life long learning process.</i>
Programme Duration	8 Semester
Total Number of ECTS Credits Awarded	240 ECTS
Brief Description of the Programme	<i>The contents of this degree include, in addition to basic training in mathematics, physics and statistics, and an updated training in electronics, signals and systems, communication theory, computers basis and networks and communication services (common to all degrees in the field of Telecommunications Engineering), the study of electronic systems, signal processing, signal propagation in different physical media, communications networks and telematics applications and services, and the latest trends in telecommunication technologies. This degree provides the adequate basis to later start the Master in Telecommunication Engineering, in contrast to the other degrees in telecommunications. The degree also includes subjects in which transversal skills are specifically developed. Specific content in Telecommunications is divided as follows: 41% is engaged to Signal Theory and Communications, 34% to Telematics and 25% to Electronics.</i>
Examples of Very Good Practice	
Accredited without / with Adjustment Requirements	Accredited
Adjustment Requirements	
Accredited by	ANECA-IIE
Accredited	From the 14th of July 2016 to the 14th of July 2022