

Label	EUR-ACE®
Higher Education Institution	UNIVERSIDAD CARLOS III DE MADRID
Country	SPAIN
State/Province	MADRID
Name of the Programme	BACHELOR'S DEGREE IN COMMUNICATIONS SYSTEMS ENGINEERING
Degree Awarded	BACHELOR'S DEGREE OF ENGINEERING
Qualification Level	First Cycle
Programme Objectives; Profile	<p>The aim of the degree is to train experts in the field of Communications Systems Engineering who are trained excellently to solve the challenges of today's society, with proven skills in the analysis, design and development of communications systems (electromagnetic fields, microwaves and high frequency circuits, and also antennas, signal and data processing, processing of multimedia information for telecommunications and mobile communications). The rise of telecommunications has made communications systems to be present in all areas of society. From the business environment for domestic, educational and social challenges, to the public services domain, communications have become essential for our lives. The speed at which technology evolves indicates an expectation of a growing need for skilled professionals in Communications Systems.</p> <p>The profile of a graduate who has successfully completed studies for this degree course includes firstly, knowledge and understanding of the general basics of engineering in particular communications systems. 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 communications systems, thus justifying the scientific interest in this degree to be addressed later. Finally, graduates will be able to apply their knowledge to solving problems and designing communications devices, while maintaining an awareness of the environmental, commercial and industrial implications of engineering practices in accordance with professional ethics; this is of vital importance in the professional aspect of this</p>

	<p><i>degree which will be addressed subsequently. 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></p> <p><i>The degree provides skills for the profession of Telecommunication Technical Engineer specialising in Telecommunication Systems.</i></p>
Programme Duration	8 Semesters
Total Number of ECTS Credits Awarded	240 ECTS
Brief Description of the Programme	<p><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 the basis of the propagation of signals in different physical media, the required electronics knowledge to develop communications systems, microwaves and high frequency circuits, signal and data processing, processing of multimedia information for telecommunications and mobile communications, and the latest trends in communications systems. The degree also includes subjects in which transversal skills are specifically developed.</i></p> <p><i>Specific content in Telecommunications is divided as follows: 60% is engaged to Signal Theory and Communications, 24% to Telematics and 16% to Electronics.</i></p>
Examples of Very Good Practice	(Where applicable)
Web site:	http://www.uc3m.es/ss/Satellite/UC3MInstitucional/en/Detalle/Estudio_C/1371206710171/1371206607588/Bachelor_s_Degree_in_Communication_System_Engineering
Accredited without / with Adjustment Requirements	Accredited
Adjustment Requirements	



AGENCIA NACIONAL DE EVALUACIÓN
DE LA CALIDAD Y ACREDITACIÓN



INSTITUTO DE LA INGENIERÍA DE ESPAÑA

Accredited by	<i>ANECA-IIE</i>
Accredited	<i>From 1th August 2014 to 1th August 2020</i>