| Label | EUR-ACE® |
|---|---|
| **Higher Education Institution** | *UNIVERSIDAD CARLOS III DE MADRID* |
| **Country** | *SPAIN* |
| **State/Province** | *MADRID* |
| **Name of the Programme** | *BACHELOR'S DEGREE IN TELEMATICS ENGINEERING* |
| **Degree Awarded** | *BACHELOR'S DEGREE OF ENGINEERING* |
| **Qualification Level** | *First Cycle* |
| **Programme Objectives; Profile** | ***The aim of the degree** is to train experts in the field of Telematics Engineering who are trained excellently to solve the challenges of today's society, with proven skills in the implementation, design and development of communication networks (Internet, ADSL, mobile networks, etc.) and services (such as the web, cloud computing technologies, Peer2Peer services, smart cities, Internet of Things, smart environments, etc.). The rise of the Internet has made communication networks and services to be present in all areas of society (now itself an Information Society, in which this information is available anytime, anywhere). From the business environment for domestic, educational and social challenges, to the public services domain, our graduates will find the required training in our programme. Communications have become essential for our lives. The speed at which technology evolves indicates an expectation of a growing need for skilled professionals in Telematics.*<br><br>***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 and in particular communication networks and services, distributed systems and telematics applications in the field of Telematics Engineering as part of the Telecommunication Engineering family. Graduates will be able to follow analytical processes for solving problems in the field of telematics networks, services, systems and applications, and 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 telematics engineering thus justifying the scientific interest in this degree. Moreover, graduates will be able to* |

| | |
|---|---|
| | *apply their acquired knowledge in order to solve problems and design telematics networks and services, configure the devices used for this purpose and deploy them in adaptive, and personal applications and services, making network intelligence of value to users, maximizing Internet potential in various social and economic spheres, with an awareness of the environmental commercial and industrial implications of working in engineering in accordance with professional ethics.*<br>*Finally, this degree provides the generic skills that graduates will need in their engineering profession in today's society, as written and oral communication skills, along with working in a multidisciplinary framework as part of a team, and an ability to maintain their professional competence through a lifelong learning process.*<br>*The degree provides skills for the profession of Telecommunications Technical Engineer specializing in Telematics* |
| **Programme Duration** | *8 Semesters* |
| **Total Number of ECTS Credits Awarded** | *240 ECTS* |
| **Brief Description of the Programme** | *The contents of this degree include, in addition to basic training in mathematics and physics and an updated training in electronics and signal processing and communications (common to all degrees in the field of Telecommunications Engineering), the study of access and transport technologies for data networks, wireless and mobile networks, current Internet trends, smart cities, smart environments and technology assisted expert systems, programming techniques oriented to communications and communication protocols, open service-oriented environments, semantic web, and the latest trends in networks and communication services. The degree also includes subjects in which transferable skills are specifically developed.*<br>*Specific content in Telecommunications is divided as follows: 58% is engaged to Telematics, 24% to Signal Theory and Communications and 18% to electronics.* |
| **Examples of Very Good Practice** | *(Where applicable)* |
| **Web site:** | *http://www.uc3m.es/ss/Satellite/UC3MInstitucional/en/Detalle/Estudio_C/1371206718563/1371206607588/Bachelor_s_Degree_in_Telematics_Engineering* |

| | |
|---|---|
| **Accredited without / with Adjustment Requirements** | *Accredited* |
| **Adjustment Requirements** | |
| **Accredited by** | *ANECA-IIE* |
| **Accredited** | *From 1th August 2014 to 1th August 2020* |