

Label	EUR-ACE®
Higher Education Institution	UNIVERSITAT DE VALÈNCIA-ESTUDI GENERAL
Country	SPAIN
State/Province	VALENCIA
Name of the Programme	DEGREE IN TELEMATICS ENGINEERING
Degree Awarded	BACHELOR OF ENGINEERING
Qualification Level	First Cycle
Programme Objectives; Profile	<p>Objectives of the degree: <i>The degree in Telematics Engineering of the School of Engineering at the University of Valencia (ETSE-UV) has as its main objective the training of qualified professionals with competences and responsibilities in the field of Telecommunications and Computer Engineering. These studies have a great importance in the current society as a consequence of the socioeconomical potential of the Internet and its associated technologies. Graduates in Telematics Engineering from ETSE-UV have a broad and solid background that prepares them to cover the technical needs and face the new challenges emerging in the ICT field, both at a national and international level. The training received by their graduates provides them with the capabilities to design, build, implement, maintain and improve communication networks, systems and services, assuming responsibility tasks in organizations, both of technical and management character and with a clear perception of the economic, social and ethical dimensions of their profession. Besides a complete training in communication networks and services, the degree also covers other important aspects such as the development of programming skills for communications, electronics and signal processing.</i></p> <p><i>In addition, the degree in Telematics Engineering from ETSE-UV provides with a generalist training in engineering methods and techniques. This degree has among its compulsory subjects a significant amount of courses common to other engineering degrees, having a broader overlap with the telecommunication branch in order to provide transversality and a comprehensive training towards the world of employment. During the four years that make up this degree,</i></p>

	<p><i>the resolution of practical cases is highly promoted to let students apply their acquired knowledge, developing the learning outcomes of Engineering Practice and Engineering Projects with the aim of facilitating their employability.</i></p> <p>Profile: <i>Engineers from the degree in Telematics Engineering of the ETSE-UV are well-prepared professionals able to cover the technical needs in the ICT field, both at the national and international level, with competences and responsibilities defined by the law dealing with Telecommunication Engineering. The covered professional profiles are diverse owing to the strong penetration of networks and services in the society, both in private and public institutions, dealing with aspects such as: Technical leading and innovation in ICT engineering projects; design and deployment of fixed and mobile communication networks and systems at a development and research level; Management and Exploitation of telecommunication services within different corporate sectors, covering both services and applications for the web, e-commerce and other added value services. Additionally, graduates can be legal experts in computer and on-line crimes, collaborators in forensic science departments, technical crime researchers, or company security auditors. Moreover, the degree provides the license required to enter and practice the regulated profession of Technical Telecommunication Engineer, as defined by the Spanish law.</i></p>
<p>Programme Duration</p>	<p><i>8 semesters (4 years)</i></p>
<p>Total Number of ECTS Credits Awarded</p>	<p><i>240 ECTS</i></p>
<p>Brief Description of the Programme</p>	<p><i>The contents of this engineering degree are structured in eight semesters (4 years) and they include a training with fundamentals on math (16 ECTS) and physics (6 ECTS), which is common to other engineering degrees, but applied to the specific telecommunications profile; they also provide a solid background to the rest of specialties within the telecommunication branch: electronics (30 ECTS), and signal processing (36 ECTS). In the specific field of Telematics Engineering, they include the study of transport and access technologies in data networks, wireless and mobile networks, Internet trends,</i></p>

	<p><i>programming techniques oriented to communications, communication protocols, service-oriented environments, semantic web and communication services and networks. Moreover, students are trained considering their intrinsic evolution defined by their studies.</i></p> <p><i>Externships are mandatory in the curriculum, with a dedication of 12 ECTS, considering also optional courses to let students complete their training (24 ECTS), providing deeper insight into their background on signal processing (Digital Audio and Speech Processing) or networks (Advanced Networks, Wireless and Mobile Communications), as well as in other engineering areas (Advanced Web Applications, Automation Systems and Robotics) or management (Business Techniques).</i></p>
<p>Examples of Very Good Practice</p>	<p><i>Externships as compulsory subject within the curriculum with a dedication of 12 ECTS.</i></p>
<p>Accredited without / with Adjustment Requirements</p>	<p><i>Accredited with adjustment requirements.</i></p>
<p>Adjustment Requirements</p>	<p>Requirement 1 <i>To perform a systematic review of the course contents and how competences are assigned to subjects / courses.</i></p> <p>Requirement 2 <i>To observe the evolution of the indicators corresponding to the degree and how they are aligned to the ones envisioned in the verification report, as well as tracking graduates properly to assess the employment level of the degree.</i></p> <p>Requirement 3 <i>To include in the curriculum a greater number of activities and training tasks with the objective of improving and assuring that students acquire the Transversal Competences and the envisioned learning outcomes in Engineering Projects.</i></p> <p>Requirement 4 <i>To focus more deeply on the approach followed in projects and works, especially, on the Final Degree Thesis, so that they are better oriented towards the learning outcomes of Engineering Projects as defined by the ENAEE.</i></p>



AGENCIA NACIONAL DE EVALUACIÓN
DE LA CALIDAD Y ACREDITACIÓN



INSTITUTO DE LA INGENIERÍA DE ESPAÑA

Accredited by	ANECA-IEE
Accredited	<i>From July 5th 2016 to July 5th 2017</i>