





Label	EUR-ACE®
Higher Education Institution	School of Telecommunications Systems and Engineering Technical University of Madrid
Country	Spain
State/Province	Madrid
Name of the Programme	Sound and Image Engineering B. Eng.
Degree Awarded	Bachelor of Engineering
Qualification Level	First Cycle
Programme Objectives; Profile	The B. Eng. program aims to prepare professionals with the ability to: - conceive and design acoustic, audio, video and telecommunications systems, - collaborate with professionals in related technologies, - make technological decisions in accordance with cost, quality, safety, and time criteria, abiding by professional principles. This program is compliant with criteria stated by the Spanish National Laws and Decrees related to university education and is awards the professional qualifications stated by law a Technical Telecommunication Engineer (B. Eng.) (Ingeniero Técnico de Telecomunicación). Graduates will have acquired the capabilities and skills to: 1. Carry out professional practice in the field of Sound and Image / Telecommunications Engineering applying acquired knowledge and competences to the design, management and maintenance of products, processes and systems. 2. Implement solutions to engineering problems, using professional arguments based on critical thinking and considering scientific, technical, social, and ethical aspects with professional responsibility. 3. Be valuable members and/or leaders of multidisciplinary teams, communicating oral and written information, conveying ideas and solutions effectively in a national and international environment.
	of autonomy to attain additional qualifications, to achieve professional growth and to master emerging technologies, tools and methods.
	Career Opportunities:
	Telecommunications Systems : project planning, development and management for the design, conception, deployment and operation of







	Telecommunications networks, services and applications. Audio and Video Systems and Equipment: analysis, specification, design and maintenance of audio and video systems and equipment. Design, evaluation and use of audio and video processing techniques and tools for signal recording, processing and transmission. Production and Recording Systems: carry out projects and designs for audio and video production and recording rooms, and PA systems. Carry out projects and designs of electroacoustic transducers. Noise and Vibration control. Acoustic Isolation: carry out noise and vibration control designs, as well as noise environmental impact characterization. Design of acoustic isolation systems.
Programme Duration	8 Semesters
Total Number of ECTS Credits Awarded	240 ECTS
Brief Description of the Programme	Basic Engineering Subjects: 60 ECTS Common Telecommunications Eng. Subjects: 58,5 ECTS Specific Sound and Image Eng. Subjects: 54 ECTS Common UPM (Transversal) Subjects: 24 ECTS Elective Subjects: 31,5 ECTS Final Degree Project: 12 ECTS
Examples of Very Good Practice	 The curriculum includes mandatory courses wich cover learning outcomes relate to Knowledge and Comprehension; Engineering Analysis; Engineering projects; Research and Innovation; Practical Application of Engineering and Transversal Skills as established by ENAEE. The practical nature of the program menas that the skills acquired and the activities developed are directly related to learning outcomes defined by ENAEE relatied to Engineering Projects and Practical Application of Engineering. Internship programs allow a large number of students to develop part of their competences in companies and organizations with strong ties to professional development in the field of ICT. The internationalization programs allow students make to do exchanges in recognized prestigeious high education institutions in Europe, America and Asia. International accreditation processes







	followed by the Center, ensure a teaching quality in line with the most prestigious international labels. • The educational innovation projects involving the School faculty allow continuous improvement of the curriculum and have been given several awards in this field. • Program monitoring procedures provide a degree of control which guarantees the teaching quality and continuous improvement.
Accredited without / with Adjustment Requirements	Accredited with Adjustment Requirements
Adjustment Requirements	"The implementation and use of the quality system should be promoted so that it becomes common practice with verifiable evidences".
Accredited by	ANECA-IIE
Accredited	Feb 1 st , 2017 to Feb 1 st , 2019