

DEGREE IN SOUND AND IMAGE IN TELECOMMUNICATION ENGINEERING (2024-25)

Code:	Plan de estudios:	Plan:
040001	040001	FP 24
040001	040001	Telecommunication systems

AREA:
Engineering and Architecture

Plan:
Degree in Sound and Image in Telecommunication Engineering

SPD DE INGENIERIA:
Ingeniería

GRUPO DE MATERIAS:
Telecomunicación y Multimedia

GRUPO DE MATERIAS CONJUNTO:
Telecomunicación y Multimedia

FECHA DE EXAMEN:
Consultar en el portal de acceso para más detalles.

PLAN DE ESTUDIOS OFERTADO EN EL CURSO 2024-25

Make search []

Year	Subject	Level	Category	ECTS
FIRST YEAR 42 credits				
COMMON SUBJECTS				
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
OPTIONAL SUBJECTS				13 credits
SECOND COURSE FOR HOLDERS OF 3-YEAR DEGREE IN TELECOMMUNICATIONS ENGINEERING 60 credits				
COMMON SUBJECTS				
1	COMPULSORY	1	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
OPTIONAL SUBJECTS				14
LANGUAGE 4 credits				
DEGREE IN SOUND AND IMAGE IN TELECOMMUNICATION ENGINEERING				
FIRST COURSE (3rd) 48 credits				
COMMON SUBJECTS				
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
1	COSE	1	COSE	5
OPTIONAL SUBJECTS				13 credits
SECOND YEAR 42 credits				
COMMON SUBJECTS				
1	COSE	1	COSE	5
2	COSE	2	COSE	5
OPTIONAL SUBJECTS				
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
2	COMPULSORY	2	COMPULSORY	5
OPTIONAL SUBJECTS				16 credits
THIRD YEAR 42 credits				
COMMON SUBJECTS				
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
3	COMPULSORY	3	COMPULSORY	5
OPTIONAL SUBJECTS				16 credits
FOURTH YEAR 42 credits				
COMMON SUBJECTS				
END OF DEGREE WORK				6
4	COMPULSORY	4	COMPULSORY	5
4	COMPULSORY	4	COMPULSORY	5
4	COMPULSORY	4	COMPULSORY	5
4	COMPULSORY	4	COMPULSORY	5
OPTIONAL SUBJECTS				16 credits
LANGUAGE				
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
4	OPTIONAL	4	OPTIONAL	5
DEGREE IN SOUND AND IMAGE IN TELECOMMUNICATION ENGINEERING				
SECOND COURSE (OPTIONAL SUBJECTS) 18 credits				
COMMON SUBJECTS				
2	OPTIONAL	2	OPTIONAL	5
2	OPTIONAL	2	OPTIONAL	5
2	OPTIONAL	2	OPTIONAL	5
DEGREE IN ACUSTIC ENGINEERING				
SECOND COURSE (OPTIONAL SUBJECTS) 18 credits				
COMMON SUBJECTS				
2	OPTIONAL	2	OPTIONAL	5
2	OPTIONAL	2	OPTIONAL	5
2	OPTIONAL	2	OPTIONAL	5
DEGREE IN AEROSPACE TECHNOLOGY				
SECOND COURSE (OPTIONAL SUBJECTS) 18 credits				
COMMON SUBJECTS				
2	OPTIONAL	2	OPTIONAL	5
2	OPTIONAL	2	OPTIONAL	5
2	OPTIONAL	2	OPTIONAL	5

DEGREE COURSE AIMS

The general aim of this programme is to produce versatile, creative and competitive graduates, capable of designing audio, video and telecommunications systems, working together with professionals in related technologies and taking technological decisions based on criteria of cost, quality, safety, time and respect for professional standards.

Graduates are expected to acquire the capacity to:

- 1 Work in the audiovisual, acoustic, information and telecommunications industry.
- 2 Carry out telecommunications, audiovisual and acoustic engineering projects and design.

General aims include:

- 1 The ability to draft, develop and sign off on projects in the field of telecommunications engineering, involving the design, development and operation of telecommunications and electronic networks, services and applications.
- 2 The knowledge, understanding and capacity to work within legislation applicable to Technical Telecommunications Engineering, and the ability to handle specifications, regulations and obligatory standards.
- 3 An understanding of basic materials and technologies, equipping the student to learn new methods and technologies, and conferring the versatility to adapt to new situations.
- 4 The ability to solve problems and take decisions with initiative and creativity, and to communicate and transfer knowledge, skills and expertise, adhering at all times to the ethical and professional guidelines applicable to Technical Telecommunications Engineering.
- 5 The skills necessary to produce measurements, calculations, assessments, appraisals, evaluations, studies, reports, schedules and similar tasks within the field of telecommunications.
- 6 The capacity to work within specifications, regulations and obligatory standards.
- 7 The capacity to analyse and assess the social and environmental impact of technical solutions.
- 8 To understand and apply the basic principles of economics, human resources management and project planning, together with telecommunications legislation, regulations and standards.
- 9 The ability to work in multi-disciplinary and multi-legal environments, and to transfer knowledge, procedures, outcomes and ideas in the field of telecommunications and electronics, both orally and in writing.

- [Description of the degree course](#)
- [Description of modules/submodules](#)
- [General description of the course programme](#)
- [Optional subjects and routes](#)

CREDIT STRUCTURE OF THE DEGREE COURSE

Subjects in the Degree in Sound and Image Engineering, worth 6 European ECTS credits each, are organized into semesters. Students must take 6 subjects each semester to complete 30 credits per semester, and thus 60 credits per academic year and a total of 240 credits over the four academic years.

In order to make the course compatible with other activities, students are allowed to take a part-time course consisting of 30 credits per academic year.

DISTRIBUTION OF CREDITS PER SUBJECT TYPE

SUBJECT TYPE	CREDITS
Core	60
Compulsory	150
Optional	78
Final Project	12
TOTAL CREDITS	240

GENERAL DESCRIPTION OF THE COURSE PROGRAMME

The course has been structured around three main areas:

Firstly, and in accordance with the terms of Royal Decree 1320/2007, the first half of the course programme contains the core subjects, worth a total of 60 ECTS credits and pertaining to the disciplines of Engineering and Architecture.

Secondly, **compulsory subjects** comprise a total of 132 ECTS, and are aimed at guaranteeing that students acquire the skills associated with the degree, while the compulsory Final Project, undertaken in the final year and aimed at assessing the skills corresponding to the degree, comprises 12 ECTS. Prior to enrolling for the final project, the student must provide evidence of ability in a foreign language. Among other possible qualifications, at the University of Alicante the minimum necessary requirement is to have attained level B1 of the European Framework of Reference for Languages, and this requirement may be raised in the future.

The 132 ECTS corresponding to compulsory subjects are divided up into 60 ECTS complementing the basic telecommunications module, 48 ECTS which complement the specific Sound and Image technology module and 24 which are common to both modules, complementing telecommunications and specific technology studies.

Finally, students are required to take 36 ECTS corresponding to **optional subjects**. Firstly, there is a group of eight optional subjects, divided into two different routes: Acoustic Engineering and Audiovisual Technology. Each route is worth 24 ECTS (comprising 4 subjects, each worth 6 ECTS), although students need only take 18 ECTS to pass either route. Secondly, two optional subjects in English are offered, specific to all courses at the Polytechnic University College at the University of Alicante. Lastly, a maximum of 12 ECTS credits are offered for work experience programmes. These are optional and may be taken in modules, each worth 6 ECTS. Thus, a wide range of possibilities are available to the student as regards combining optional subjects, as shown below:

- Route 1 + 1 or 2 free-elective optional subjects + 12 or 6 work experience ECTS.
- 4 free-elective optional subjects + 12 work experience ECTS.
- Route 1 + Route 2.

Furthermore, as part of the free-elective optional group of subjects, students may be awarded up to 6 ECTS credits for participating in cultural, sporting, student representation, charity and cooperation activities at university.

OPTIONAL SUBJECTS AND ROUTES

CODE	SUBJECT	ECTS
ROUTE 1: ACOUSTIC ENGINEERING		
20027	VIBROACOUSTICS	6
20028	ACOUSTIC DESIGN OF VEHICLES	6
20029	18 TRANSDUCERS AND THEIR APPLICATIONS	6
20024	ENVIRONMENTAL ACOUSTICS	6
ROUTE 2: AUDIOVISUAL TECHNOLOGY		
20022	DIGITAL SOUND SYNTHESIS	6
20020	DIGITAL SOUND PROCESSORS	6
20026	VIDEOGRAPHY	6
20025	AUDIOVISUAL PRODUCTION CENTRES	6
WORK EXPERIENCE		
20040	WORK EXPERIENCE I	6
20041	WORK EXPERIENCE II	6
ENGLISH		
34541	ENGLISH I	6
34542	ENGLISH II	6

LANGUAGE REQUIREMENT (IN A FOREIGN LANGUAGE)

Students who study an undergraduate degree at the University of Alicante must complete a minimum level of B1 in a foreign language (B1 is recommended) in order to obtain the diploma.

The required language level is in accordance with the Common European Framework of Reference for Languages.

The language accreditation requirement can be obtained previously or at any time during university studies. However, the language requirement will be necessary in order to assess the final year project.

The different ways of obtaining such language requirement can be consulted in the additional information in this section.

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LANGUAGE TEACHING COMPETENCE CERTIFICATE

Students who want to take a course in the university teaching their studies are recommended to obtain the teaching competence certificate (certificate under foreign languages).

The certificate can be obtained by taking specific courses in your university studies or by taking the BA teaching competence course in Valencià, German, French and English.

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FINAL YEAR PROJECT (TFG)

All the official undergraduate degrees must be completed by preparing and defending a final year project, which must be done in the final phase of the studies and be aimed at the assessment of competences associated to the degree.

The final year project must be an original, independent and personal work. The evaluation of it may be individual or coordinated. Each student will prepare the project under the supervision of a tutor. Defending students will show the relevant content of an integrated study, as well as the required competences associated to the undergraduate degree.

In order to register in the final year project, students must comply with the requirements established in the "Regulation for coordination studies for students registered in undergraduate degrees at the University of Alicante". Among the requirements established to be able to register in the final year project, a minimum of 180 credits must be passed in undergraduate degrees with a total of 240 credits, and a minimum of 228 credits in undergraduate degrees with a total of 300 credits or more.

In order for the final year project to be assessed in B1 level of a foreign language (B1 is recommended) must be confirmed.

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- [Access routes](#)
- [Procedure for applying for admission](#)
- [International application policy](#)
- [Number of places and costs](#)
- [A.R.A. Groups \(High Academic Achievement\)](#)

ACCESS ROUTES

Admission to this Degree course is open to any applicant who meets one of the following entrance requirements:

- SPANISH BACCALAUREATES (LOCE): UNIVERSITY ENTRANCE EXAM (PAU) through students can access university by means of any Baccalaureate qualification, the recommended one is Baccalaureate.

ADMISSION SCORES FOR THIS DEGREE CAN BE IMPROVED BY TAKING THE SPECIFIC MODULES OF THE UNIVERSITY ENTRANCE EXAM (PAU) AS INDICATED IN THE TABLE BELOW WITH THEIR RESPECTIVE WEIGHTINGS.

See long Tables A1-G

3. **PREVIOUS BACCALAUREATES WITH OR WITHOUT A PASS IN THE UNIVERSITY ENTRANCE EXAM (PAU):** Students who have completed their Baccalaureate under previous education systems and have passed the PAU will be able to use the marks obtained in their application.

HOWEVER, STUDENTS CAN TAKE SPECIFIC EXAM MODULES DURING THE VOLUNTARY PAU EXAM PERIOD IN ORDER TO IMPROVE THEIR ADMISSION SCORE AS SHOWN IN TABLE 1. THEY CAN ALSO SIT FOR THE OBLIGATORY PAU EXAM IN WHICH CASE THEY WILL HAVE TO TAKE ALL THE EXAMS SCHEDULED DURING THIS PERIOD.

4. **INTERNATIONAL BACCALAUREATE:** Students with educational qualifications such as those obtained under the Baccalaureate of the International Baccalaureate (IB) or other national or international qualifications, the recommended one is Baccalaureate.

ADMISSION SCORES CAN BE IMPROVED BY TAKING THE PAU EXAM IN UP TO 4 OF THE MODULES IN TABLE 1.

5. **STUDENTS FROM EDUCATION SYSTEMS IN COUNTRIES OF THE EUROPEAN UNION OR OTHER STATES WITH WHICH SPAIN HAS AN INTERNATIONAL AGREEMENT:** Accreditation is required and issued by the Universitat de València (UV) or the Universitat de Barcelona (UB).

STUDENTS CAN SIT FOR EXAMS IN SUBJECTS INCLUDED IN THE PRUEBAS DE COMPETENCIAS ESPECÍFICAS (PCE), ORGANISED BY THE UNED, IN ORDER TO IMPROVE THEIR ADMISSION SCORE UP TO 14 POINTS AS INDICATED IN THE WEIGHTINGS IN TABLE 1.

6. **STUDENTS FROM NON-UNION COUNTRIES:** These are subject to the admission of their foreign Baccalaureate (which may be up to 4 in 4 subjects) subject to the Pruebas de Competencias Específicas (PCE) regulated by UNED (at least one subject from the same course).

THE WEIGHTINGS INDICATED IN TABLE 1 WILL BE APPLIED TO CORE AND/OR OPTIONAL SUBJECTS.

7. **OTHER:** University degrees and other similar qualifications. University entrance exam for students over 25 (government option: Engineering and Architecture). Access on the basis of professional experience (applicants over 40 years of age). Access to applicants aged 45 years or more by means of an exam.

Weightings of the subjects of the specific phase of the Proof of Access to the University (PAU) in the previous years

Year	Mathematics	Physics	Chemistry	English	Spanish	History of Spain	History of Valencia	Geography	Art	Music	Physical Education	Foreign Languages	Other
2010-11	0.1												
2011-12	0.2												
2012-13	0.1												
2013-14	0.2												
2014-15	0.2												

PROCEDURE FOR APPLYING FOR ADMISSION: PRE-ENROLLMENT AND REGISTRATION

- Registered number of places offered during the first pre-enrollment session: 80
- In order to apply to a place, the procedure and pre-enrollment periods established each year must be observed. [Detailed procedure for the admission process \(Pre-enrollment\)](#)
- Applicants admitted to a course must formally register within the timetable established annually in the enrollment calendar. Registration: [Registration](#)

RECOMMENDED APPLICANT PROFILE

The recommended educational background is a high school diploma, with a good grounding in mathematics and physics. Students should be practical, observant, meticulous, with a capacity to concentrate, improve and synthesise. In addition, they should be logical, analytical, organised and methodical, able to work as part of a team and to lead groups and take decisions in unfavourable conditions.

Among the aptitudes and capabilities which should define the new student, although all of these will be developed during the Degree course, are the following: numerical ability (calculation ability, speed and accuracy; ability to handle figures and resolve quantifiable problems); logical reasoning (capacity to understand the relationship between events and find the causes, predict consequences and thus resolve problems coherently); abstract reasoning (ability to separate or extract aspects of a situation or problem); observant (capacity to perceive the details of objects, phenomena or events, detecting their distinguishing qualities and appreciating their differences with respect to others); perceptive (capacity to acquire knowledge of the world around us via the sensory impressions received); capacity for attention (concentration; ability to voluntarily focus the senses and attention on an object or activity, disregarding other events happening at the same time).

NUMBER OF PLACES AND PASS MARKS

YEAR	ADMISSION PLACES	ADMISSION MARKS	ADMISSION MARKS	ADMISSION MARKS	ADMISSION MARKS	ADMISSION MARKS	ADMISSION MARKS
2010-11	80	1,000	1,000	1,000	1,000	1,000	1,000
2011-12	80	1,000	1,000	1,000	1,000	1,000	1,000
2012-13	80	1,000	1,000	1,000	1,000	1,000	1,000
2013-14	80	1,000	1,000	1,000	1,000	1,000	1,000
2014-15	80	1,000	1,000	1,000	1,000	1,000	1,000
2015-16	80	1,000	1,000	1,000	1,000	1,000	1,000
2016-17	80	1,000	1,000	1,000	1,000	1,000	1,000
2017-18	80	1,000	1,000	1,000	1,000	1,000	1,000

- *Pass marks* indicated correspond to the results of the first adjudication of June.
- The admission marks can be inferior to the here collected.

A.R.A. GROUPS (HIGH ACADEMIC ACHIEVEMENT)

The groups of high performance academicians (ARA), to reinforce the potential of the most distinguished students since the beginning of their university studies offering part of teaching in English, as well as a series of aid and support for their training.

Students who want to receive teaching on a group ARA must request it at the time of enrollment take place. It will be assessed the academic record and accredited knowledge of English.

[Detailed information about ARA groups](#)

[Information regarding](#)

PROFESSIONAL PROFILE

This degree qualifies graduates to work as Telecommunications Engineering Technicians, specialising in Sound and Image. The professional attributes of the course are regulated by Law and professional practice is supervised by the Official College of Telecommunications Engineering Technicians. Graduates may also enrol on professional Master's Degree courses, research courses and other post-graduate courses, in accordance with current legislation.

The main professional profiles associated with this Degree are:

- Radio communications engineering
- Electronic systems engineering
- Data communication engineering
- Design of digital signal processing applications
- Communications networks design
- Software and applications development
- Audiovisual and multimedia projects
- Acoustic engineering projects
- IT consultancy
- Technical service
- Product design
- Integration and test engineering
- IT marketing management
- IT project management
- Research and technology development

IMPLEMENTATION

The proposed course programme for the University of Alicante Degree in Sound and Image Engineering in Telecommunications will be implemented year by year.
It is envisaged that new University of Alicante Degree in Sound and Engineering in Telecommunication course will be fully implemented by the 2010/2011 academic year.

TIMESCALE		
ACADEMIC YEAR	IMPLEMENTATION OF THE DEGREE IN SOUND AND IMAGE ENGINEERING IN TELECOMMUNICATIONS	PHASING OUT OF TELECOMMUNICATIONS ENGINEERING TECHNICIAN (SOUND AND IMAGE)
2010/2011	1 st YEAR	1 st YEAR
2011/2012	2 nd YEAR	2 nd YEAR
2012/2013	3 rd YEAR	3 rd YEAR
2013/2014	4 th YEAR	

CREDIT EQUIVALENCE BETWEEN STUDIES IN TELECOMMUNICATIONS ENGINEERING TECHNICIAN, (SOUND AND IMAGE) STUDIES AND THE NEW DEGREE IN SOUND AND IMAGE ENGINEERING IN TELECOMMUNICATIONS

TELECOMMUNICATIONS ENGINEERING TECHNICIAN (SOUND AND IMAGE)	Credits	DEGREE IN SOUND AND IMAGE ENGINEERING IN TELECOMMUNICATIONS	Credits
7022 Acoustic	7.5	Acoustic	7.5
7021 Circuit Analysis	7.5	Circuit Analysis	7.5
7028 Digital Electronics	12	Digital Electronics Basic Electronics	6
7020 Basics of Engineering Physics	12	Basics of Engineering Physics I Basics of Engineering Physics II	6
7024 Computers	6	Computers	6
7026 Basic Programming	6	Basic Programming I	6
7029 Basic Mathematical I	12	Basic Mathematics Mathematical I	6
7028 Technical English	6	English I	6
7028 Electrotechnics	18	Acoustic Transducers	6
7041 Telecommunication	7.5	Telecommunication	7.5
7028 Analogical Electronics	6	Analogical Electronics	6
7027 Linear Systems	15	Digital and Systems Communication Theory	6
7028 Basic Mathematics II	7.5	Mathematica II	6
7025 Video Engineering	9	Video Engineering	9
7044 Projects	6	Telecommunications Projects and Innovations I	6
7043 Digital Audio Processing	6	Digital Audio Processing	6
7046 Digital Image Processing	6	Digital Image Processing	6
7047 Multimedia Technology	6	Multimedia Services	6
ADAPTED CORE AND COMPULSORY CREDITS			133
7022 Acoustic	7.5	Innovation and Soundproofing	6
7021 Telegraphics and Virtual Reality	7.5	Telegraphics	6
7028 Digital Signal Processors	7.5	Digital Signal Processors	6
7026 Computer Networks	7.5	Networks	6
7026 Digital Sound Synthesis	7.5	Digital Sound Synthesis	6
7028 Advanced Acoustic Systems	7.5	Advanced Acoustic Systems	6
ADAPTED OPTIONAL CREDITS			36
TOTAL ADAPTED CREDITS			174

Credits in Telecommunications Engineering Technician (Sound and Image) not listed in the above table may be validated by means of:

1. Degree course optional credits, up to the maximum number of optional credits established for each degree course.

Recognized free elective credits originally awarded for university, cultural or representational activities will be validated for the degree course, with a maximum of up to 6 academic credits to be validated for various activities, as set out in Art. 12.8 Royal Decree 1303/2007 (participation in cultural, sporting, student representation, charity and cooperation activities).

SOUND AND IMAGE ENGINEERING IN TELECOMMUNICATIONS

SCORES SUBJECTS WITH NO EQUIVALENCE TO SUBJECTS OFFERED UNDER THE CURRENT PLAN

DEGREE IN SOUND AND IMAGE ENGINEERING IN TELECOMMUNICATIONS	Credits
Business Management	6
Basic Programming II	6
Basics of Engineering Optics	6
Digital Electronic Systems	6
Transmitters Models	6
Digital Signal Processing	6
Telecommunications Physics and Infrastructures II	6
Telecommunications Regulations and Services	6
CORE AND COMPULSORY SUBJECTS WITH NO EQUIVALENCE	48
Vibracoustics	6
Environmental Acoustics	6
Ultrasound and Its Applications	6
Acoustic Design of Venues	6
Acoustical Treatment Systems	6
English II	6
OPTIONAL CREDITS WITH NO EQUIVALENCE	36

In addition to the credit equivalence table for subjects in the proposed course programs and subjects in the Telecommunications Engineering Technician (Sound and Image) programs being phased out, the terms of the regulations of the University of Alicante must also be observed.

Transitional Provision Two. Students who do not wish to take the new degree course subjects are entitled to sit four examinations in the two academic years following the end of each year. Any students wishing to continue their studies after sitting and failing these tests will be required to follow the new plan, according to the adaptation system established in the new plan. ON (RAS) and new (ECTS) credits are one-to-one equivalent, although overall limits will be established for the credit equivalence system.

BRIDGING COURSE FOR TELECOMMUNICATIONS ENGINEERING TECHNICIANS (SOUND AND IMAGE) WHO WISH TO OBTAIN THE DEGREE IN SOUND AND IMAGE ENGINEERING IN TELECOMMUNICATIONS

- [Detailed order of studies](#)
- [www.telecomunicacions.es](#)
- [www.ual.es](#)
- [Qualification details](#)
- [www.ual.es](#)

Envisaged number of students

Given the experience of other schools offering bridging courses this academic year, and taking into account the number of people holding this qualification, it is proposed to offer 20 places for Telecommunications Engineering Technicians (Sound and Image).

Entry and admission of students

In response to the training needs of present holders of the Telecommunications Engineering Technician (Sound and Image) qualification, as identified by both the College of Telecommunications Engineering Technicians and a group of Engineers in the sector, the Polytechnic University College at the University of Alicante proposes to offer a Bridging Course intended for holders of the Telecommunications Engineering Technician (Sound and Image) qualification, in accordance with Royal Decree 1383/2007 and following the directives established by the University of Alicante and in this document. This Bridging Course will qualify these Engineers for positions at the same level in Public Administration as graduates.

When the number of applications exceeds places offered, these will be assigned in accordance with the following priority criteria:

- Overall academic record (70%)
 - Academic record for the Telecommunications Engineering Technician (Sound and Image) qualification (75%)
 - Related Degree or Master's Degree (25%)
- Holder of the Telecommunications Engineering Technician (Sound and Image) qualification from the University of Alicante (20%)
- Experience as work experience of final project team for the Telecommunications Engineering Technician (Sound and Image) qualification (10%)

Holders of the Telecommunications Engineering Technician (Sound and Image) qualification from other universities who wish to obtain the Degree in Sound and Image Engineering in Telecommunications from the University of Alicante will be required to take the subjects indicated by the Centre's Commission for Recognition and Transfer of Credits, determined according to the subjects studied previously for the Engineering Technician qualification, where students would need to study subjects which are not included in the Bridging Course, these Engineering technicians will not be admitted to the course.

Degree Bridging Course Programme

The bridging course will consist of the eight subjects indicated in the table below, giving the academic year corresponding to implementation of each subject on the Degree course. Since the Degree in Sound and Image Engineering in Telecommunications will be implemented over a series of academic years, as indicated in the Degree authorisation document, the bridging course containing the eight subjects shown in the table below should be offered to holders of the Telecommunications Engineering Technician (Sound and Image) qualification in the academic year 2010/2011. Each of the subjects is worth 6 ECTS credits, whilst the Final Project is worth 12 ECTS credits.

SUBJECTS	SUBJECT TYPE	ACADEMIC YEAR	SEMESTER	ECTS	Dist. P.
Fundamentals of programming II	Compulsory	1st	2nd	6	104
Business management	Core	2nd	2nd	6	102
Fundamentals of engineering optics	Compulsory	2nd	1st	6	121
Digital electronic systems	Compulsory	2nd	4th	6	126
Digital treatment of signal	Compulsory	2nd	4th	6	130
Telecommunications regulations and services	Compulsory	3th	5th	6	148
Telecommunications projects and infrastructures II	Compulsory	4th	5th	6	164
Transmission media	Compulsory	4th	5th	6	131
Final Project	Compulsory	4th	5th	12	168

SUBJECTS	Semester course	
	Semester 1	Semester 2
Fundamentals of programming II	X	X
Business management	X	
Fundamentals of engineering optics	X	
Digital electronic systems	X	
Digital signal processing	X	
Telecommunications regulations and services		X
Telecommunications projects and infrastructures II		X
Transmission media		X
Final Project		X

It is envisaged that teaching hours will be adapted to the particular circumstances of the students for whom this Bridging Course is intended, most of whom may be working. This timetable will achieve the dual objective of enabling students to attend the course, and avoiding any possible conflict of teaching duties between the Bridging Course and the Degree course, in accordance with the timetable established in the course programme.

Quality parameter results

It is envisaged that the indicator values suggested for the Degree course will improve, since students will consist of qualified Telecommunications Engineering Technicians with a comprehensive knowledge of the subject matter and, in many cases, professional work experience. Therefore, the following indicator values are proposed:

- Effectiveness rate > 80 %
- Graduation rate > 80 %
- Dropout rate < 10 %

Implementation timetable for the Bridging Course between Telecommunications Engineering Technician (Sound and Image) and Degree in Sound and Image Engineering in Telecommunications

It is envisaged that implementation of the Bridging Course enabling holders of the Telecommunications Engineering Technician (Sound and Image) qualification to obtain a Degree in Sound and Image Engineering in Telecommunications will begin in the academic year 2011/2012, and will be offered until the academic year 2012/2013.

Internal Quality Assurance System (SIQI) of the Title

- Structure of the Centre for Quality
 - [Internal Quality Assurance System \(SIQI\) of the Title](#)
 - [SIQI of the Title](#)
 - [SIQI of the Title](#)
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- [SIQI of the Title](#)

Information about the Centre	General information for students
<ul style="list-style-type: none">• Polytechnic University College Telephone + 34 96 500 2048 Fax + 34 96 500 2044 Email: info@ua.es• Mobile Programme• Work agreements with companies and institutions• Research and student loans• External Action Programme• European added-value diploma• Internationalisation of the Polytechnic University College	<ul style="list-style-type: none">• Grants and assistance• Accommodation• Student information and website• Insurance• Emergency medical care• Language• Services for students with special needs• Student representation and involvement• University student identity card (IDU)• Examinations and questions
UA: General Regulations <ul style="list-style-type: none">• Academic regulations and conditions of the University of Alicante	<ul style="list-style-type: none">• Information about qualifications<ul style="list-style-type: none">• Official State Grants (RCA) in relation to course requirements• Description document for the Degree in Social and Health Sciences• Information available• Video presentation of the degree