

**DEGREE IN CIVIL ENGINEERING (2024-25)**

<b>Cursada</b>	Facultat de Enginyeria	<b>Plaça</b>	171-24
<b>Codi</b>	171-24	<b>Tipus</b>	10000000000000000000
<b>Crèdits</b>	120	<b>Tipus</b>	10000000000000000000
<b>Tipus</b>	10000000000000000000	<b>Tipus</b>	10000000000000000000

**ÀREA**

Enginyeria i Arquitectura

**Plan**

Grado de Ingeniería Civil

**Plan de Estudios**

10000000000000000000

**Centros donde se imparte**

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**Artículo 100.00000000000000000000**

10000000000000000000

**FECHA DE EXAMEN**

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1	OPTIONAL	4
2	OPTIONAL	5

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Reporte auto generado de datos  
ISSUES IN CIVIL ENGINEERING, ROADS & URBAN TRANSPORT AND SERVICES

**GENERAL AIMS**

The general aim of the new Degree in Civil Engineering is to give its graduates a general, European-standard education in the theories, techniques and technologies corresponding to the Public Works, Transport and Hydrology sectors, within a framework of continuous improvement and transmission of learning.

In response to Additional Provision Nine of Royal Decree 135/2007 of 29 October regarding official university programmes, the Department for Education and Science passed Ministerial Order CIN20072009 of 9 February (Spanish Official State Gazette (BOE) of 18 February 2009), which regulates official university degrees qualifying holders to work as Public Works Technical Engineers, and establishes the skills to be acquired by students:

Scientific-technical training for the profession of Public Works Technical Engineer, skills in consultancy, analysis, planning, design, calculation, projects, management, construction, maintenance, preservation and operation in the field of Civil Engineering.

An understanding of the many technical and legal conditions arising in the construction of public works and the capacity to employ proven methods and technologies to ensure greater efficiency in construction, on a basis of respect for the environment and protection of the health and safety of workers and the users of public works.

Conscience with and the capacity to observe applicable legislation while acting as a Public Works Technical Engineer.

The capacity to plan, project, inspect, manage and operate Civil Engineering works and services: road, rail, maritime, waterway and air transport infrastructures; ports, maritime structures and coastal and beach defence and reclamation structures; hydraulic and industrial water production infrastructures and hydroelectric and sanitary engineering facilities; and urban and environmental services.

The capacity to maintain and preserve hydraulic and energy resources, within the scope of Civil Engineering. The capacity to plan and manage surface, underground and non-conventional hydraulic resources.

The capacity to undertake land planning and environmental studies as related to infrastructures, within the scope of Civil Engineering. The capacity to draw up plans, standards, studies and projects with regard to development and land-planning.

The capacity to manage, maintain, preserve and operate infrastructures, within the scope of Civil Engineering.

The capacity to study and design surface or underground water catchments, within the scope of Civil Engineering.

Conscience with and the capacity to apply employment legislation and business management techniques.

A knowledge of the history of Civil Engineering and the capacity to analyse and assess constructions in general and public works in particular.





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**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 in 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 guide 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 (B2 is recommended) must be confirmed.

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- [Access routes](#)
- [Procedure for applying for admission](#)
- [Administrative regulations](#)
- [Number of places and pass marks](#)

**ACCESS ROUTES**

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

- 1. **GRADUATE ACCREDITATION COURSE (UNIVERSITY ENTRANCE EXAM PAU)**, through success in course awarded by any Accreditation 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.**

TABLE 1

100 Eq.

1. **PROFESSOR ACCREDITATION WITH OR WITHOUT A PAU IN THE UNIVERSITY ENTRANCE EXAM (PAU)**. Students who have completed their Baccalaureate under previous educational systems and have passed the PAU will be able to take the course without a PAU.

**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 EXAMS, IN WHICH CASE THEY WILL HAVE TO TAKE ALL THE EXAMS SCHEDULED DURING THIS PERIOD.**

2. **VOCATIONAL EDUCATION**. Vocational educational qualifications such as senior technician, senior technician of plastic arts and design, or senior technician in sports is the preferred professional area through access to the degree may be through any professional test.

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

3. **GRADUATE FROM EDUCATION SYSTEM IN COUNTRIES OF THE COMMUNITY STATES OR OTHER STATES WHO HAVE AN INTERNATIONAL AGREEMENT**. Accreditation is required and issued by the **Ministerial Register of Education of the Spanish State**.

**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.**

4. **STUDENTS FROM FOREIGN EDUCATION SYSTEMS**. Prior to applying for the admission of their foreign Baccalaureate, students may sit for up to 4 exams in subjects offered by the **Pruebas de Competencias Específicas (PCE)** organised by UNED (at least one subject from the same subjects).

5. **CPER**. University degrees and other similar qualifications, University entrance exams for students over 25 (generalized option: Engineering and architecture), Access to the basis of professional experience (diplomates over 40 years of age), Access to applicants aged 45 years or more by means of an exam.

PAU Subject / Prueba Específica	Weightings of the subjects of the specific phase of the Proof of Access to the University (PAU) in the previous years																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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**Professions for which the degree qualifies graduates:**  
The degree qualifies graduates to work as a Public Works Technical Engineer (Order CIN/2017/2015 of 5 February, Spanish Official State Gazette (BOE) 10 February 2015). The professional attributes of the course are regulated by Law.  
Graduates may also attend professional Master's Degree courses, research courses and other post-graduate courses, in accordance with current regulations.

**IMPLEMENTATION**

The course programme for the University of Alicante Degree in Civil Engineering will be implemented on a year-by-year basis.

PROPOSED TIMETABLE FOR IMPLEMENTATION		
ACADEMIC YEAR	IMPLEMENTATION OF THE DEGREE IN CIVIL ENGINEERING	PHASING OUT OF THE PUBLIC WORKS TECHNICAL ENGINEERING PROGRAMME
2010-2011	1 <sup>st</sup> YEAR	2010-2011
2011-2012	2 <sup>nd</sup> YEAR	2011-2012
2012-2013	3 <sup>rd</sup> YEAR	2012-2013
2013-2014	4 <sup>th</sup> YEAR	2013-2014



**BRIDGING COURSE FOR PUBLIC WORKS ENGINEERING TECHNICIANS WHO WISH TO OBTAIN THE DEGREE IN CIVIL ENGINEERING**

- Enlarged number of students
- Entry and admission of students
- Degree Admission Course Programme
- Financial conditions tables
- Bridging course implementation timetable

**Enlarged number of students**

Given the experience of other schools offering bridging courses this academic year, which have received a high number of applications for places on these courses, and taking into account the teaching resources of the departments involved, 30 places will be offered for Public Works Engineering Technicians.

**Entry and admission of students**

The Polytechnic University College at the University of Alicante will offer a Bridging Course intended for holders of the Engineering Technician (Public Works) qualification, in accordance with Royal Decree 1303/2007 and following the directives established by the University of Alicante and in this document. This Bridging Course will qualify these Public Works Engineering Technicians for positions at the same level in Public Administrations as graduates.

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

- (20%) Overall academic record
- (20%) To be a graduate of the University of Alicante from the Polytechnic University of Valencia, having completed studies at the delegation from the University of Alicante in the degree that gives access to the course of adaptation.
- (20%) Teaching collaborations with the School of Engineering

Holders of the Public Works Engineering Technician qualification from other universities who wish to obtain the Degree in Civil Engineering from the University of Alicante by taking this bridging course 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 Diploma. 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 subjects indicated Table IV Bridging Course. Students will be required to take subjects from Tables I, II or III depending on their area of specialisation.

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.

BRIDGING COURSE - Civil Construction			
Subject	Subject Type	Credits	Academic year on the Degree course
Final Project	Compulsory	12	6th
Urban Planning and Environment	Compulsory	6	5th
Building and Rehabilitation	Optional (Compulsory of Block)	6	4th
Geotechnical Construction	Optional (Compulsory of Block)	6	4th

Table I Bridging Course - Civil Construction

BRIDGING COURSE - Hydraulics			
Subject	Subject Type	Credits	Academic year on the Degree course
Final Project	Compulsory	12	6th
Urban Planning and Environment	Compulsory	6	5th
Waste Water Management	Optional (Compulsory Block Subject)	6	4th
Environmental engineering	Optional (Compulsory Block Subject)	6	4th

Table II Bridging Course - Hydraulics

BRIDGING COURSE - Transport and Urban Services			
Subject	Subject Type	Credits	Academic year on the Degree course
Final Project	Compulsory	12	6th
Urban and Land Use Planning	Optional (Compulsory Block Subject)	6	4th
Planning and Operating Transport Infrastructures	Optional (Compulsory Block Subject)	6	4th
Waste Management and Treatment	Optional	6	4th

Table III Bridging Course - Transport and Urban Services

Subject	Subject Type	Credits	Academic year on the Degree course	Doc. p.
Final Project	Compulsory	12	6th	21
Urban Planning and the Environment	Optional	6	5th	113
Building and Rehabilitation	Optional	6	4th	136
Geotechnical Construction	Optional	6	4th	136
Waste Water Treatment	Optional	6	4th	154
Environmental engineering	Optional	6	4th	154
Urban and Land Use Planning	Optional	6	4th	155
Planning and Operating Transport Infrastructures	Optional	6	4th	155
Waste Management and Treatment	Optional	6	4th	155

Table IV Bridging Course

**Estimated quantitative values for the indicators listed below and rationale for the estimation.**

With respect to the bridging course, it is envisaged that the indicators used to evaluate learning outcomes will be better compared to typical values for the Degree, since students will already have ample knowledge of the subject matter. Therefore, an improvement in indicators is envisaged and in consequence, the following values are proposed:

- Effectiveness rate >85 %
- Graduation rate >92 %
- Dropout rate <10 %

**Implementation Timescale for the Bridging Course enabling Public Works Engineering Technicians to obtain a Degree in Civil Engineering**

The course of adaptation has registered high levels of demand in previous editions, having been more than 200 students each year without the possibility of registration. In view of these data, it is expected that the first academic year in which it is not offered (2013/2014), there will be a high demand for enrolment of new students entering graduates from subject plans. This would significantly reduce the chances of access to the level of new students from senior high school and vocational training and competing for the same seats. To resolve this situation, it is proposed that an adaptation period, while demand is sufficient to cover 50% of places offered in this course.





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