Bachelor's Degree in Public Works Engineering

Introduction to the degree

Civil engineering provides sustainable solutions for integrating infrastructures within the environment and the society. Urban planning and their utilities, railway and highway network design, coastal engineering, risk assessment of floods and earthquakes, design and construction of bridges, tunnels, dams and ports or the integral management of projects are the most common civil engineering activities.

Bachelor’s Degree in Public Works Engineering qualifies for practising the regulated profession of Technical Engineer in Public Works, in all specialisations: Civil Engineering Construction, Hydrology and Transport and Urban Services. In addition, after completing this program students can access the Master’s Degree in Civil Engineering at UPV.

The Bachelor’s Degree in Public Works Engineering comprises 240 ECTS during 4 academic years. During the first two years, basic courses (statistics, physics, mechanics, mathematics, drawing,...) and pre-technological courses (structural analysis, construction, transportation,...) are taught, while third and fourth years focus on specific technological training in civil engineering.

International mobility

Students can study over more than 70 foreign universities the School has signed exchange agreements with. You can study at countries such as France, Germany, United Kingdom, Italy, Finland, Austria and the USA.

Internships

The School has signed agreements with leading construction companies and consultancies, both national and international, as well as with public and private organisations related to civil engineering. Students can do internships in Spain (visiting constructions or working in offices or laboratories) and abroad.

Continuation of studies

With this degree, you will be able to access to:

- MD in Civil Engineering
- MD in Environmental Engineering
- MD in Concrete Engineering
- MD in Hydraulic and Environmental Engineering
- MD in Planning and Management in Civil Engineering
- MD in Prevention of Occupational Risks
- MD in Transportation, Planning, Urban Planning
- MD in Construction
- others MD + levelling subjects

Professional opportunities

This degree qualifies its graduates to work in the profession of Technical Engineer in Public Works, in any of three specialisations: Civil Engineering Construction, Hydrology and Transport and Urban Services. You can work in construction companies, engineering and architecture consultancies, construction materials and quality control, energy production, maintenance and operation of services firms etc.

You can also be self-employed and manage and supervise constructions, control the quality of materials, studies and projects, manage construction equipment and construction materials, surveys, risk prevention etc.

You can work public officer at the civil service’s technical staff for all types of administrations (ministries, councils, municipalities etc.) or do research in public or private schools.

Enjoy our huge campuses with spaces designed for you such as the Student Recreation House.

You can do up to 70 sports in our facilities.

You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support…

and be part of Spain’s best technological university according to the Shanghai ranking.
Bachelor's Degree in Public Works Engineering

Curriculum

Credits for obtaining the degree

<table>
<thead>
<tr>
<th>Basic courses</th>
<th>Compulsory</th>
<th>Elective</th>
<th>Internship</th>
<th>T.F.G.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.00</td>
<td>102.00</td>
<td>66.00</td>
<td>0.00</td>
<td>12.00</td>
<td>240.00</td>
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The subjects that you will be able to take

Basic courses

- Basic Knowledge of Programming and Numerical Methods
- Basic Statistics
- Drawing
- Economics, Legislation and Business Management
- Fundamentals of Physics in Civil Engineering
- Geology Applied to Civil Engineering
- Mathematical Foundations of Civil Engineering
- Mathematical Methods of Civil Engineering
- Mechanics
- Representation Systems

Compulsory courses

- Chemical Composition of Materials
- Civil Engineering Typologies and Construction Procedures I
- Civil Engineering Typologies and Construction Procedures II
- Construction Materials and Their Application to Civil Engineering
- Electrical Engineering
- Geotechnics and Foundations
- Hydraulics and Hydrology I
- Hydraulics and Hydrology II
- Construction Site Setup, Organization and Quality Assurance

Elective courses

- Occupational Risk Prevention in Civil Engineering
- Professional Training Workshops
- Reinforced Concrete
- Road Infrastructures
- Environmental Science and Impact in Civil Engineering
- Steel Structures
- Structural Analysis
- Water Supply and Sewer Networks
- Topography
- Urban and Land Planning

Internationally accredited bachelor's degree (EUR-ACE)