UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Bachelor's Degree in Public Works Engineering

Engineering and Architecture
Architecture and Civil and Building Engineering

Bachelor's Degree in Public Works Engineering
Building 4H
Campus of Vera (València)

4 courses
240 credits

Spanish and valencian

Credit 19,27€
(2020/2021)
It will make you eligible for scholarships

75 places

Cut-off marks

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+34 963 877 150
www.upv.es/titulaciones/GIOP/

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 Sevices. 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

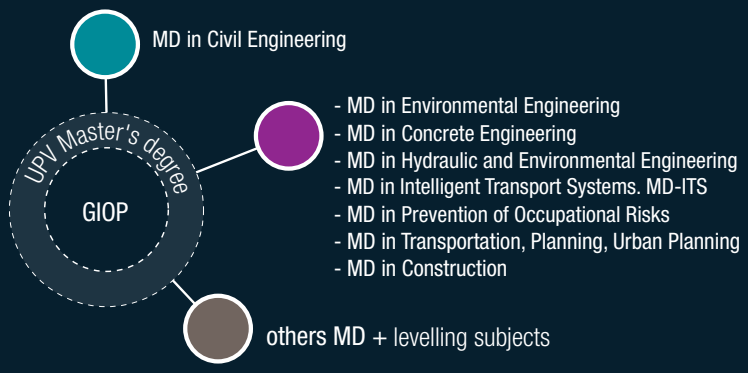
Students can study over more than 70 foreing universities the School has signed exchange agreements with. You can study at countries such as France, Germany, United Kingdom, Italy, Finland, Austria and the USA.

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:



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 Sevices. 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.

Study at the UPV and be part of Spain's best technological university according to the Shanghai ranking

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

You can do up to **40 sports** in our facilities.

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

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Bachelor's Degree in Public Works Engineering

Curriculum

Credits for obtaining the degree

Basic courses	Compulsory	Elective	Internship	TFG	Total
60.00	102.00	66.00	0.00	12.00	240.00

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 - II
Construction Materials and their Application to Civil Engineering
Electrical Engineering
Geotechnics and foundations
Hydraulics and Hydrology I - II
Installation, Organization and Quality Assurance in Construction
Occupational Risk Prevention in Civil Engineering
Professional Training Workshops
Reinforced Concrete
Road Infrastructures
Science and Environmental Impact of Civil Engineering
Steel Structures
Structural Analysis
Supply and Sewer Networks
Topography
Urban and Land Planning

Elective courses

A First Course on Bridge Construction
Academic and Professional French A1 - A2 - B1 - B2
Academic and Professional German A1 - A2 - B1 - B2
Academic and Professional Italian A1 - A2
Air and Soil Environmental Management
Building
Building Information Modelling (BIM) - Iti. CC
Building Information Modelling (BIM) - Iti. HMA
Building Information Modelling (BIM) - Iti. TSU
Civil Engineering for the Conservation and the Recuperation of Biodiversity
Economics and Transport Organization
Effects and Behaviour of Contaminants in Aquatic Ecosystems
Energy Systems and Hydroelectric Facilities
English
Environmental Impact Assessment of Civil Engineering
Equipping and Provision of Urban Services
Foundation and Earth Retaining Structures
Geotechnical Engineering Techniques and Methods
Hydraulic Work and Uses
Hydraulics and River Engineering
Industrialised Construction
Management and Operation of Transport Services
Maritime Works
Modal Interchange Facilities
Oral And Written Expression In Civil Engineering
Organization and Management of Leisure Infrastructure
Pathology and Rehabilitation
Prestressed Concrete
Special Concretes and New Materials
Steel and Composite Steel-Concrete Construction Technology
Surface and Groundwater Hydrology
Sustainable Development Strategies
Technical Valencian C1 - C2
Technology of Concrete Constructions
Territorial Effects of Infrastructure
Traffic Engineering
Urban Planning in the Current City
Urban Planning Management
Urban Transport
Urban Water and Waste Systems and Services
Water Resource Planning and Management