Bachelor’s Double Degree in Mathematics + Civil Engineering

Introduction to the degree
Students obtain two undergraduate degrees: Degree in Mathematics and Degree in Civil Engineering.

The program trains professionals with rigorous training in mathematics, with a high qualification and a versatile profile, while acquiring a solid training to address sustainable solutions related to civil engineering, integrating infrastructures with the landscape, the environment and society.

This double degree responds to a growing demand in the world of science, technology and industry, with a very high employability.

International mobility
It is possible to take advantage of the academic exchanges established for any of the two degrees taken with universities from Spain, Europe or other parts of the world.

Internships
These studies have a clear applied approach with a wide range of practices in companies or research entities, both in the Valencian Community and in other territories.

Continuation of studies
With this degree, you will be able to access to:
- MD in Civil Engineering
- MD in Environmental Engineering
- MD in Transportation, Land and Urban Development
- MD in Planning and Management in Civil Engineering
- MD in Intelligent Transport Systems, MD-ITS
- MD in Hydraulic Engineering and Environment
- MD in Occupational Risk Prevention
- MD in Concrete Engineering
- MD in Mathematical Research

Professional opportunities
It is possible to develop any of the professional activities for which both degrees enable students. This double degree provides added value as an expert in physical-mathematical modelling of infrastructure and territory, and as a data analyst and systems optimization expert, so that this knowledge can be applied in: consulting, civil engineering, maintenance and operation of services and construction companies, among other. Alternatively, you can access the technical teams in all types of administrations (ministries, councils, town halls...) or engage in teaching and research.

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 70 sports in our facilities. You will find many services at your disposal: language classes, discounts in public transport, counselling, employability support…
## Credits for obtaining the degree

<table>
<thead>
<tr>
<th>Basic courses</th>
<th>Compulsory</th>
<th>Elective</th>
<th>Internship</th>
<th>TFG</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>84.00</td>
<td>244.50</td>
<td>4.50</td>
<td>0.00</td>
<td>24.00</td>
<td>357.00</td>
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</table>

## The subjects that you will be able to take

### Basic courses
- Calculus
- Differential Equations I
- Discrete Mathematics
- Drawing
- Geology Applied to CE
- Linear Algebra and Geometry I
- Numerical Analysis
- Organisation and Management of Companies
- Physics I - II
- Physics Extension
- Programming
- Representation Systems
- Statistics

### Compulsory courses
- Algebraic Structures I – II
- Algebraic Topology
- Building
- Building Materials and their Application to CE
- Business Management
- Calculus in Several Variables
- Chemistry for Civil Engineering
- Complex Variable
- Construction Procedures I - II
- Curvilinear and Surface Integration
- Deformable Solid Mechanics
- Differential Equations II
- Differential Geometry
- Electrical engineering
- Fourier analysis
- General Topology
- Geotechnics and Foundations
- High Performance Computing
- Hydraulic Infrastructures
- Hydraulics and Hydrology
- Industrialised Construction
- Linear Algebra and Geometry II - III
- Maritime Works
- Modelling
- Multiple Integral
- Numerical Resolution of Linear and Non-Linear Systems
- Numerical Resolution of Partial Derivative Equations
- Operational Research
- Predictive and Classification Models
- Prevention of Occupational Risks and Organisation of Works
- Projects
- Railways
- Roads and Airports
- Science and Environmental Impact of Civil Engineering
- Statistical Inference
- Structural Concrete
- Structural Steel I
- Structure Analysis
- Techniques and Methods of Land Engineering
- Topography
- Transport and Territory

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