



Engineering Faculty

## Second-Cycle Degree Course in Civil Engineering

### The Degree Course

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The Second-Cycle Degree Course in Civil Engineering is aimed at training a professional profile having a wide range of knowledge and skills related to the design, realization, management, survey, control and maintenance of constructions (civil and industrial constructions), of big works (bridges, dams, tunnels) and of infrastructures (roads and transports, water lifting, distribution and sewage). The two-year path is structured in such a way as to allow students to acquire an autonomous capacity to analyze complex engineering problems within the above-mentioned fields, with the ensuing possibility of accessing the labour as well as the research and development sector, both at national and international level. The training of the students is based on subjects that, on the one hand, enhance the engineering expertise acquired with the Three-year Civil and Environmental Engineering Course which is already included into the educational offer of the International Telematic University UNINETTUNO and, on the other hand, introduces elements helping to more clearly identify the training required to carry on high-level functions in the process of design and management of civil works also paying attention to their interactions with the environment. The student can choose between two paths which separate only in the second year. The first path is "Structures and Infrastructures" and is characterized by disciplines related to the structural engineering thematic area; the second one, instead, is "Building and Design" in which the disciplines refer more to the Juridical-Organizational Area for Building Science and Architecture. The graduate will be able to deal with, by widening his theoretical training, practical applications and highly complex engineering problems. In this regard, the course contents are closely related to a shared engineering practice as well as to innovations and results achieved in the research field.

# Study Programme

## Second-Cycle Degree Course in Civil Engineering

### Path: Structures and Infrastructures

#### I YEAR

- Numerical Methods
- Organization and Management
- Structural Mechanics II
- Construction Theory and Planning in concrete and reinforced concrete
- Civil and Environmental Hydraulics
- Infrastructures, Planning and Building Sites
- Technical Architecture and Building Production

#### II YEAR

- Seismic Dynamics and Engineering
- Technologies of Materials for Engineering
- Tunnels and Foundations Engineering
- Free-choice exams
- Stages
- Final exam

### Path: Construction and Design

#### I YEAR

- Numerical Methods
- Organization and Management
- Structural Mechanics II
- Construction Theory and Planning in concrete and reinforced concrete
- Civil and Environmental Hydraulics
- Infrastructures, Planning and Building Sites
- Technical Architecture and Building Production

#### II YEAR

- Construction Modelling and Interoperable Management
- Restoration and Consolidation
- Architectural Design
- Administrative law and Town Planning
- Free-choice Exams
- Stages
- Final exam

## How to enrol

Enrolment can only be made on the Internet in the area devoted to the Administrative Secretariat of the portal [www.uninettunouniversity.net](http://www.uninettunouniversity.net).

Payments can be made online by credit card or through bank transfer or postal service.



Videolesson of prof. Paolo Emilio Ricci