Bachelor’s Degree in Civil Engineering

Scientific coordinator
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Department
Engineering

Duration
3 years

Programme overview
The Bachelor course in Civil Engineering aims to form graduates with a theoretical background of basic sciences as well as with operative skills suitable for practice, including design, manufacturing, maintenance, and project management in different fields of civil engineering. Traditional subjects are combined with advanced and up-to-date methods and tools compliant with modern technical regulations. The course comprises three years:
- the first year is a foundation year aimed to transfer the fundamental knowledge in the field of mathematics, chemistry, physics, and graphical representation.
- the second year encompasses advanced principles of calculus to complete the fundamental knowledge, followed by more professional subjects related to constructions, environmental engineering, technology, and territory.
- The third year is mainly dedicated to problems at a territorial scale, such as the design of infrastructures in a BIM environment, the hydraulics of natural systems, foundations and retaining structures and the seismic response of the structures.

The classes also include: laboratory exercises, aimed at the knowledge of experimental methods; practical activities oriented to analysis and problem-solving, to knowledge of infrastructures, systems, and facilities, as well as natural and anthropic phenomena and processes. Training activities (internships) are carried out in public or private companies through suitable international programs as well.

Minimal entry requirements
A foreign certified qualification demonstrating 12 years of study as equivalent to an Italian secondary school diploma.

Language requirements
International English language certificate issued by an Institution recognized by the Italian Ministry of University and Research (MUR), B2 level of the Common European Framework of Reference.

I really enjoy this course as it allows me to be creative and work with my peers to produce results that I am very proud of. This practice is vital to Civil Engineering as teamwork and communication is an important skill in this field. The course of Civil Engineering also produces a great environment to learn some important real-world applications of principles associated to sustainable development and manufacturing.

Tracy Guinan
Study programme

Civil Engineering class degree (L-7)

YEAR 1
Linear Algebra and Geometry
Chemistry and Materials Technology
Mathematical Analysis I
Physics
Architectural Drawing
Surveying and data processing
Foreign Language from European countries different from English and native language
Subject chosen by the student

YEAR 2
Mathematical Analysis II
Circuit Theory
Rational mechanics
Building Construction
Structural mechanics I
Technical physics and building energy systems
Subject chosen by the student

YEAR 3
Track Design of Civil Structures
Fundamentals of geotechnical engineering
Structural mechanics II
BIM for highway planning
Fundamentals of hydraulics of natural systems
Foundations and retaining structures
Seismic analysis of structures
Structural design
Internship Stages
Final Project

Tuition fees
A fixed fee (€ 156.00) and a remaining amount of tuition calculated on the basis of a sliding scale.