

A.Y. 2015-16



UNIVERSITY OF NAPLES
"PARTHENOPE"

Department of Engineering



COURSE LEADER

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WHERE WE ARE

Department of
ENGINEERING

Centro Direzionale-Isola C4-
80143 Napoli



UNIVERSITY OF NAPLES
"PARTHENOPE"



GUIDANCE AND TUTORING

Department of
ENGINEERING

Master's Degree

Civil Engineering
(Class LM-23)

www.uniparthenope.it

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COURSE OVERVIEW

The Master's Degree in Civil Engineering is the natural continuation in the academic training of Parthenope University graduates in Civil and Environmental Engineering. The Master course focuses on the most advanced aspects of design analysis and building of civil structures. Possible areas of employment are manifold but mainly encompass the design and building of civil and industrial structures and infrastructures (also in seismic zones), such as reinforced and pre-stressed concrete or steel structures, aqueducts and sewers, bridges and viaducts, superficial and deep foundations, retaining structures, overground and underground construction. Graduates will possess adequate skills in the design of air conditioning devices and eco-save buildings, in the choice of both traditional and innovative construction materials, and in the use of the most advanced territorial information systems.

CAREER PROSPECTS

The professional opportunities for specialist graduates in Civil Engineering are to be found in all public and private bodies involved in the planning, designing, implementing and managing of civil engineering works. In particular, graduates can find employment with building and maintenance of civil works companies; professional design firms; public bodies for the design, management and supervision of metropolitan and territorial systems; research institutions, companies, bodies, groups and agencies for the management and control of works and service systems; service companies for the feasibility study of the urban and territorial impact of the infrastructures.

SYLLABUS

The Master's Degree course in Civil Engineering, together with suitable training in basic physics and mathematical disciplines, provides a solid grounding in the theoretical and scientific, experimental and applied aspects of structural engineering, geotechnics and hydraulics, which enables students to identify and devise innovative solutions to complex or multidisciplinary problems. The constant application of techniques, technologies and methods for the solution of practical problems makes 'design' the key feature of the master's course.

The syllabus is structured into two years and four semesters. Each semester in its turn is divided into a three/four-month period of attendance and study, and two months exclusively devoted to exams, for a total of 120 ECTS credits, which are evenly distributed in the two-year period. First semester classes start in late September and end in December, with exams held in January; second semester classes start in March and end in June, with exam sessions in June, July and September.

For further Information, visit our website:
<http://www.ingegneria.uniparthenope.it/civs/index.php>

SYLLABUS

Year I	ECTS
Digital Cartography and GIS	9
Earthquake Engineering	9
Foundations Design	9
Water Resources Management	9
Novel Materials for Civil Engineering	9
Elective module	9
Year II	
Heat, Ventilation and Air Conditioning Devices	12
Design of Hydraulic Works	9
Geotechnical Design	9
Structural Design	12
Elective module	9
Internship + Final Exam	15