

FOR A SUSTAINABLE CITY

11 SUSTAINABLE CITIES
AND COMMUNITIES



THE GLOBAL GOALS



SAPIENZA
UNIVERSITÀ DI ROMA



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MASTER OF ENVIRONMENTAL AND SUSTAINABLE BUILDING ENGINEERING

FACULTY OF CIVIL AND INDUSTRIAL ENGINEERING

<https://corsidilaurea.uniroma1.it/en/corso/2024/30842/home>

MASTER OF ENVIRONMENTAL AND SUSTAINABLE BUILDING ENGINEERING

WHAT IS IT ?

It aims to form a student with the **advanced** knowledges needed to **design new buildings and work on old buildings and infrastructures**, considering the natural constraints, such as environmental, seismic, hydrological, geological and hydraulics, to achieve the Goals of Agenda 2030 for Sustainable Development (Goal n. 11).

TRAINING OBJECTIVES

- ❑ *Energy efficiency*
- ❑ *Green building standards*
- ❑ *Innovative materials*
- ❑ *Recycled material reuse*

SKILLS

Getting this Master's degree means to acquire an unique knowledge in the fields of the civil, building and environmental engineering.

It also means to study in an international context so to become able to work in different countries.

TRAINING COURSES:

- Remote sensing and GIS
- Digital modeling for architecture
- Building design and H-BIM for architectural renovation
- Architectural design for sustainable building
- Environmental and Urban Planning
- Water and solid waste treatment plants
- Urban health and sustainable Transport
- Hydraulics infrastructures
- Structural dynamics
- Foundation and earth retaining structures
- Groundwater management

GRADUATION THESIS

The course will end with a thesis work about one of the studied topics that will be presented in front of the Board.

INTERNATIONAL PROGRAMS ABROAD

- Erasmus program
- Double degree with the Master's Degree in Civil Engineering, delivered by the College of Civil Engineering and Architecture of Zhejiang University (China).



JOB OPPORTUNITIES



Planning and consulting in engineering offices

Institutions, authorities, public entities, inspection agencies



Construction, maintenance and environmental companies



Private companies



Technical and geomatic services



Research centres and high education institutions