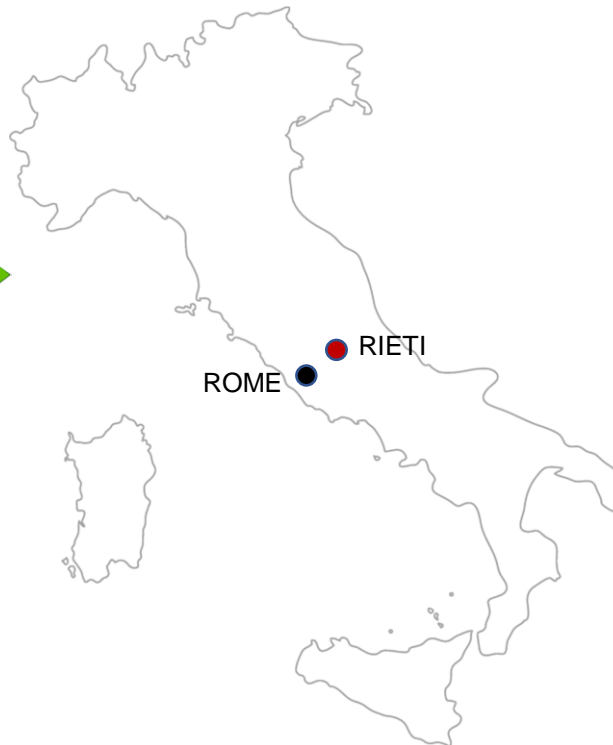


FOR A SUSTAINABLE FUTURE



After Bachelor's degree, you can go on studying in Rieti, attending Environmental and Sustainable Building Engineering and get your Master's degree

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SAPIENZA
UNIVERSITÀ DI ROMA



SUSTAINABLE BUILDING ENGINEERING BACHELOR'S DEGREE

FACULTY OF CIVIL AND
INDUSTRIAL ENGINEERING

City of RIETI

<https://corsidilaurea.uniroma1.it/it/corso/2024/30425/home>



SAPIENZA
UNIVERSITÀ DI ROMA



SUSTAINABLE BUILDING ENGINEERING

WHAT IS IT ?

Sustainable Building Engineering means to learn how to become an engineer able to work on old buildings which need to be recovered in an urban regeneration perspective and to design new buildings following the green building standards. Moreover, the engineer will operate with the aim to limit the environmental impact of the buildings, e.g. by the energy efficiency, recyclable materials application, reduced primary source consumption, proper management of residues.

TRAINING OBJECTIVES

The aims of this course are:

- Developing skills to work on new and existing buildings with a sustainable approach, ensuring healthy, comfortable and environmentally sustainable buildings;
- Taking in account natural constraints, i.e. hydraulic, seismic, hydrogeological and other environmental restrictions

SKILLS

Getting a Bachelor's degree in our faculty means becoming able to work in the different building and land transformations processes. After achieving the Bachelor's degree, it is possible to become a self-employee or work for design and construction companies involved in architecture, urban planning and management of building processes, in both the national and international contexts.

TRAINING COURSE

CONSERVATION OF EXISTING BUILDINGS

- geomatics
- materials technology for sustainable construction
- geotechnics
- structural mechanics
- structural design
- history of architecture

SUSTAINABLE LAND DEVELOPMENT IN COMPLIANCE WITH NATURAL CONSTRAINTS

- engineering geology for sustainable building
- engineering geophysics
- sustainable community planning
- hydraulics
- hydrology

REDUCTION OF ENVIRONMENTAL IMPACT, WORKING ON OLD BUILDING RECOVERY AND NEW BUILDING DESIGN

- architectural technology and sustainable building
- environmental engineering
- environmental engineering physics
- environmental health
- bioclimatic building design
- innovative construction technologies

GRADUATION THESIS

The course will end with a short dissertation about one of the studied topics.

