



# SUSTAINABLE BUILDING ENGINEERING

## WHAT'S IT ?

*Sustainable Building Engineering means energy efficiency and recyclable materials application with reduction on environmental impact, in the aim of following green building standards. Moreover, this course is aimed to teach to design and operate referring to as new building as old ones, which needs to be recovered, in an urban regeration perspective. It is possible by a sustainable land management, which respects geological, hydrogeological, hydraulic and seismic constraints.*

## TRAINING OBJECTIVES

*The aims of this course are:*

- to develop skills around sustainable approach to design and operate on new and existing buildings, with a view to ensuring healthy, comfortable and environmental friendly buildings;
- to keep in mind the respect of natural constraints (hydraulic, seismic and hydrogeological) and environmental restrictions, when applying the above issues.

## SKILLS

*Getting a Bachelor's degree in our faculty means to be able to work in different building processes. In addition, you have the chance to work with other experts to plan the land transformations. After your studies, you can decide to be a self-employee or work in design companies regarding architecture, urban plan and management of building process.*

## TRAINING COURSE

### CONSERVATION AND RECOVERY OF EXISTING BUILDINGS

- geomatics
- materials technology for sustainable construction
- geotechnics
- structural mechanics
- structural design

### SUSTAINABLE LAND DEVELOPMENT RESPECTING: SEISMIC, HYDRAULIC AND GEOLOGICAL CONSTRAINTS

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

### REDUCTION OF ENVIRONMENTAL IMPACT, WORKING ON RECOVERY BUILDINGS AND NEW BUILDINGS DESIGN

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

## GRADUATION THESIS

Here, you have the chance of carrying on a thesis, cooperating with public/private authorities, which is very important for future workfield entrance. Graduation thesis are often the result of periods of stages, they sometimes represent authentic studies that are directly applicable for a sustainable land development.



student secretariat  
12 classrooms

3 computer rooms

library

5 scientific laboratories