

Urban engineering and decision making



ECTS
8 crédits



Hourly volume
62h

Introducing

Objectives

This course will gradually implement three levels:

1. Lectures to analyze the role of experts, from the point of view of technicians and the techniques they use, in urban decision-making and action.
2. Tutorials to deepen the multi-thematic modeling of the city (socio-demographic and economic data, water management, energy-microclimate, mobility, architecture)
3. An inter-universities workshop in the form of a 5-day intensive to compare knowledge related to various universities (engineering, architecture, geography, visual arts, political sciences, economics, communication) on a joint urban project with Toulouse Métropole.

The expected scientific skills are as follows:

- ↳ awareness of the diversity of urban, architectural, landscape, economic, social, environmental and regulatory approaches
- ↳ ability to integrate a multidisciplinary teams (understand the interplay of actors and the underlying issues)
- ↳ set up a project method on an urban scale (multi-criteria and multi-scale diagnosis, positioning, iterative design approach)
- ↳ use GIS software for urban projects, use image processing software to make sense of project information

Practical info

Location(s)

 Toulouse