

Liste d'éléments pédagogiques

Practical info

Location(s)

 Toulouse

Binders and concretes : formulation and environmental impact



ECTS
6 crédits



Hourly volume
54h

Practical info

Location(s)

 Toulouse

Durability of construction materials



ECTS
3 crédits



Hourly volume
44h

Practical info

Location(s)



Toulouse

Mechanics of materials and construction



ECTS
6 crédits



Hourly volume
58h

Practical info

Location(s)

 Toulouse

Thermohydric transfers for buildings



ECTS
3 crédits



Hourly volume
44h

Introducing

Objectives

For 'Basics of heat transfer and further study':

- the assimilation of the concept of coupling heat transfers in the building;

- the resolution of a simple problem (in 1D and in stationary mode) of thermal in the field of the building.

For 'Thermal Simulation':

- Assimilation of the fundamental difference between insulation and thermal inertia;

- Mastering the basic concepts of numerical simulation with the finite difference method in 1D.

For 'Thermal renovation techniques':

- Understand the socio-economic and environmental issues in the field of thermal renovation

- Know the main thermal renovation techniques for buildings (walls and systems), implement them as part of a project, understand their impact on the thermal-hydric behavior of the building

Practical info

Location(s)



Toulouse

Monitoring of civil engineering structures



ECTS
3 crédits



Hourly volume
53h

Introducing

Objectives

Explain (main concepts) the principle and the use of the main non-destructive testing (NDT) and monitoring methods for Civil Engineering applications

Analyse and explain the operating of NDT and monitoring methods

Process NDT measurements

Realise usual measurements with NDT methods and process those measurements

Necessary prerequisites

Master 1 in applied sciences

Practical info

Location(s)

 Toulouse

Maintenance of buildings



ECTS
6 crédits



Hourly volume
79h

Practical info

Location(s)



Toulouse

ENGLISH



ECTS
3 crédits



Hourly volume

Practical info

Location(s)



Toulouse