

Option Structural Engineering

Introducing

Description

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse

Human Resources Management and Group Work



ECTS
6 crédits



Hourly volume
75h

Introducing

Description

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts) :

Human Resource Management

Aims and organisation of a Human Resources position, job analysis and forecasting, recruiting, work motivation, skills, salary, training, career management, conflict mitigation, work contract

Social Psychology

Groups, what they are, their influences and dynamics

The student will be able to analyse a group situation

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Practical info

Location(s)

 Toulouse

Necessary prerequisites

None

Évaluation

Frames and Composite steel and concrete structures



ECTS
6 crédits



Hourly volume
75h

Introducing

Description

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

Elaborating methods, planning and budget for a construction project. Designing and calculating an steel structure and timber component

The student will be able to:

Foresee the execution methods. Establish a projected budget and planning. Design the framework and stability of a steel structure. Calculate members and components according to EC3 and EC5.

Necessary prerequisites

Steel & timber structures

Évaluation

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Practical info

Location(s)

 Toulouse

Concrete structures 2 & masonry



ECTS
7 crédits



Hourly volume
105h

Introducing

Description

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

The principles of design for building concrete structures under earthquake and under fire, the principles of design of masonry structures according to EC6.

The student will be able to:

Design and check simple concrete structures in case of fire, or built in seismic zone.

Write a calculation note and justify the structural elements.

Know the limits of EUROCODE 6 and justify a masonry wall. Calculation and design of buildings in seismic area according to Eurocode 8, design of beams, walls with and without openings, foundations, design project.

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Practical info

Location(s)

 Toulouse

Évaluation

Methods and English



ECTS

6 crédits



Hourly volume

Introducing

Description

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

Elaborating means, planning and budget of a construction operation
Main techniques and methods in various sectors (building, bridges and roads)
Principles of Lean Management applied to Civil Engineering projects
Use specific vocabulary of Civil Engineering to complete reports and discuss key elements of a project

The student will be able to:

Elaborate methods.
Estimate a budget and establish a planning of works.
Pilot a project referring to Lean Management concepts
Communicate in English civil engineering environment

Évaluation

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examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse