

Mechanical Design

Construction Processes

IDENTIFICATION

CODE : GCU-3-S2-EC-PGC
ECTS : 1.0

HOURS

Lectures : 16.0 h
Seminars : 0.0 h
Laboratory : 0.0 h
Project : 0.0 h
Teacher-student
contact : 16.0 h
Personal work : 7.0 h
Total : 23.0 h

ASSESSMENT METHOD

MCQ

TEACHING AIDS

On-line documents

TEACHING LANGUAGE

French

CONTACT

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AIMS

This module is part of the course unit GCU-S6-STRUCT-2 and contributes to:

Competences in Engineering Science:

A1- Analyze a real or virtual system (or problem) (level 1)

Competences specific to the specialty:

C7- Building structure (design, dimension and control a2) (level 1)

C8- Civil Engineering Structures (design, dimension and control a2) (level 1)

C9- Highway and rail infrastructure (design, dimension and control a2) (level 1)

C12-Assess several building methods (level 1)

C24- Contribute to organize construction sites, to the compliance of safety rules and deadlines (level 1)

Allows the student to work and be evaluated on the following knowledge:

Functional analysis of structures

Realisation processes and appropriate calculus methods

Safety on construction site

Allows the student to work and be evaluated on the following abilities:

To know the main constructive systems, set up techniques

To know the different steps of design and construction

CONTENT

1 - Constructive systems for building

2 - Safety and work side organization

3 - Bridges

4 - Road and earthwork

Construction site tours

BIBLIOGRAPHY

KARSENTY G. La fabrication du bâtiment : le gros oeuvre. Eyrolle, 1997.

Normes et Documents Techniques Unifiés associés aux règles de calcul

VITTON R. Bâtir : manuel de la construction. Presses Polytechniques et universitaires romandes, 1996.

PRE-REQUISITE

GCU-S6-IAS1

GCU-S6-IAS2