


 Faculty of Applied Sciences

AUCE1801 Construction [30h]

[30h] 3 credits

This course is taught in the 1st semester

Teacher(s): Nicolas Van Oost
Language: French
Level: First cycle

Aims

By the end of this course, students will be able to:

Understand the solidarity between structures and construction materials,

Begin designing articulations and joints between different structures, different materials: assemblages, articulations, nodes, joints, etc.,

Know the broad groups of technical construction details,

Design a "classic" construction detail,

Know several important construction methods from historical examples or contemporary situations.

Main themes

The course will describe and analyze the principal types of junctions: 1) between structures, 2) between structures and materials, 3) between different materials, which are called for in building construction.

The course will study the characteristics and construction methods for assemblies, nodes, joints, articulations in the building construction.

The course will address the specific methods of detail design development and building finishing techniques.

Different methods will be studied for their implications in terms of tectonic poetics.

The course will be based on case studies: exemplary works or buildings from history or the contemporary period, or more ordinary or common buildings.

Content and teaching methods

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Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

AUCE 1701 Structures à construire

AUCE 1702 Matières à construire

Other credits in programs

ARCH12BA	Deuxième année de bachelier en sciences de l'ingénieur, orientation ingénieur civil architecte	(3 credits)	Mandatory
GC21	Première année du programme conduisant au grade d'ingénieur civil des constructions	(3 credits)	Mandatory
GC23	Troisième année du programme conduisant au grade d'ingénieur civil des constructions	(3 credits)	