


 Faculty of Applied Sciences

AUCE1031 STRUCTURAL MATERIALS

[15h+15h exercises] 3 credits

This course is taught in the 2nd semester

Teacher(s): Jean-François Cap
Language: French
Level: First cycle

Aims

Knowledge of materials used in civil engineering structures

Main themes

This course introduces the main features of commonly used construction materials.

Content and teaching methods

- Structure and nature of materials
- Mechanical properties of materials (stress-strain relations, elastic behaviour, elastoplastic behaviour, ...)
- Nonmechanical properties of materials (density, thermal expansion, surface characteristics, ...)
- Laboratory tests on concrete, steel, and wood.
- Production considerations and economical factors.

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

Naught

Other credits in programs

ARCH12BA	Deuxième année de bachelier en sciences de l'ingénieur, orientation ingénieur civil architecte	(3 credits)	
FSA12BA	Deuxième année de bachelier en sciences de l'ingénieur, orientation ingénieur civil	(3 credits)	Mandatory
FSA13BA	Troisième année de bachelier en sciences de l'ingénieur, orientation ingénieur civil	(3 credits)	
GC22	Deuxième année du programme conduisant au grade d'ingénieur civil des constructions	(3 credits)	