


 Faculty of Applied Sciences

AMCO2032 DESIGN OF REINFORCED CONCRETE STRUCTURES

[22.5h+22.5h exercises] 4 credits

This course is taught in the 1st semester

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

Aims

Study of linear cross section of reinforced concrete

Main themes

The course introduces to the design of concrete structural elements using limit states methods, and design guidelines based on the Eurocode design code.

Content and teaching methods

- Mechanical properties of concrete material and reinforcing steel.
- Structure analysis and safety concepts.
- Analysis and design of beams subjected to flexure, axial force, shear and torsion.
- Control of cracking and deformation;

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

Prerequisite : AUCE 1031

Other credits in programs

ARCH22	Deuxième année du programme conduisant au grade d'ingénieur civil architecte	(4 credits)	Mandatory
ARCH23	Troisième année du programme conduisant au grade d'ingénieur civil architecte	(4 credits)	
GC22	Deuxième année du programme conduisant au grade d'ingénieur civil des constructions	(4 credits)	Mandatory
GC23	Troisième année du programme conduisant au grade d'ingénieur civil des constructions	(4 credits)	