



Faculté des sciences appliquées

FSA

AMCO2365 Physique appliquée au bâtiment III :Partie A : Architecture et développement durable - Partie B : Techniques spéciales avancées

[30h+15h exercices] 4 credits

This two-yearly course is taught in 2004-2005, 2006-2007,...

This course is taught in the 2nd semester

Teacher(s): André De Herde
Language: french
Level: 2nd cycle course

Aims

Part A: Architecture and sustainable development

Part B: Advanced special techniques

Critical analysis of architecture in the sustainable development context, based on literature and completed projects (part A).

Understanding the physical concepts behind advanced air conditioning systems in buildings (part B).

Main themes

Background and theories of climatic architecture (part A)

Sustainable development (part A)

Advanced air conditioning systems in buildings (part B)

Design principles in view of the type of building and type of occupancy (part B)

Principles of regulation (part B)

Pre-dimensioning methods (part B)

Relation between climatic architecture and advanced air conditioning systems in buildings (part B)

Examples (part A and part B)

Research (part A and part B)

The course is given in French.

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

Course AMCO 2363 Physics Applied to Buildings II: special techniques.

The evaluation is done by an examination in French or in English.

Other credits in programs

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