


 Faculty of Applied Sciences

**AMCO2104 SEMINARS RELATING TO THE CIVIL ENGINEERING WORKS -  
SEMINARS RELATING TO THE STRUCTURES**

[30h] 3 credits

This course is taught in the 1st semester

**Teacher(s):** Jean-Louis Hilde  
**Language:** French  
**Level:** Second cycle

**Aims**

These seminars aim to make it possible the student to conceive structures which were the subject of a systematic teaching.

**Main themes**

- Design of the specific elements of the traditional works such as bridges, roads#
- Introduction to the design of exceptional works by their destination and/or their width,
- Presentation of methods of calculation and of special techniques of realization seen the complexity of the work.

**Content and teaching methods**

Exposed with discussion of the concepts and dimensioning methods of particular elements such as:

- \* choice of the type of the structure of a bridge according to the actions and ranges,
- \* choice of the system of supports and joints of the bridges,
- \* layout and composition of a road,
- \* method of realization of large-sized structures.

Presentation of exceptional building sites in progress and works finished with:

- \* visit on the spot;
- \* explanation by the builders of the encountered difficulties and the solutions adopted as well with regard to the study as the realization;
- \* exchange opinions between the students and the builders.

Analyzes of case of pathology:

- \* presentation of disasters having affected works;
- \* explanation of the causes and the remedies;
- \* exchange opinions between the students and the builders.

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

To envisage 7 afternoon.

Examples of works:

- elevator of Strépy-Thieu;
- viaducts TGV;
- center technical hiding of hallembaye;
- lock of Lanhaie;
- works to define each year according to the building sites in activity.

Evaluation of the presentation of a work by each student.

**Other credits in programs**

<b>FSA3DS/GC</b>	Diplôme d'études spécialisées en sciences appliquées (génie civil)	(3 credits)
<b>GC22</b>	Deuxième année du programme conduisant au grade d'ingénieur civil des constructions	(3 credits)
<b>GC23</b>	Troisième année du programme conduisant au grade d'ingénieur civil des constructions	(3 credits)