



# Faculté des sciences appliquées

**FSA**

MECA2261 Séminaire d'engineering

[15h] 1 credits

This course is taught in the 2nd semester

**Teacher(s):** Yannic Wera  
**Language:** french  
**Level:** 2nd cycle course

## Aims

Introduce students to the requisite industrial approach to a successful investment. Clarify the transition between industry and universities by confronting students with the basic aspects of their future industrial environment.

## Main themes

This course examines the various issues involved in a successful industrial investment (or project), from marketing analysis and credit allocation to final acceptance. The Belgian environment is taken as reference and the investment is aimed at widespread exportation.

## Content and teaching methods

The contents of this course adapts to the rapid evolution of methodologies implemented to optimize exportation investments.

The latter optimization relates to : costs, quality, deadlines.

The seminar as such is based on a factual industrial scenario.

The following points are examined:

- Definition of engineering
- Investment sources (methodology, O.B.C.E, commercial prospects)
- Financial engineering
- Investment specifications and their fulfilment
- Contact negotiating, types of contacts
- Budgets and mastering them
- Deadline control (PERT, GANTT)

The following topics are also examined

- Matrix organization
- The impact of computers on engineering: CAO
- Scale models techniques

The seminar takes into account the influence of Belgium's federal structure and provides conformation on the ISO system as well as aids to investment.

## Other credits in programs

<b>MECA22</b>	Deuxième année du programme conduisant au grade d'ingénieur civil mécanicien	(1 credits)	
<b>MECA23</b>	Troisième année du programme conduisant au grade d'ingénieur civil mécanicien	(1 credits)	Mandatory