

## Faculty of Economic, Social and Political Sciences



### TEKN2201 Technological project

[90h] 10 credits

**Teacher(s):** Anne-Marie Anckaert, Paul Fiset, Pierre Godard, David Johnson, Benoît Macq, Bernard Nysten  
**Language:** French  
**Level:** Second cycle

#### Aims

At the end of the class, students should be able to

- understand the technological environments related to a project in one of the following domains: electronic and telecommunications; energy and environment; materials and process; mechanics and electro-mechanics
- analyse a technological problem and the state-of-the-art (the possible usual solutions)
- design original solutions to the given problem
- compare the technological results to the economical, social and environment constraints.

#### Main themes

The objective of this course is to integrate the knowledge resulting from

- technological courses of the bachelor's degree
  - courses related to law
  - function courses (marketing, finance #) of the bachelor's degree
  - the course of "gestion de projet" of the 1st year of the master's degree
- by means of a team project realisation based on technology.

#### Content and teaching methods

Each year a global specific application field is proposed, in which four technological aspects are selected (electronics and telecommunications; energy and environment; materials and processes; mechanics and electro-mechanics). Among the chosen fields are: automotive technology, civil aviation #

Students works in teams of 5, on a subject related to the cited disciplines. Students are distributed equally between all the proposed projects. Some teams which have chosen different disciplines may work in cooperation if they want; the professors will encourage this interactive attitude.

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

Prerequisite :

Significant scientific knowledges in the concerned technological domain

Evaluation :

The evaluation process is done in two parts: a global evaluation at the team level, based on a project report and an oral presentation, and an individual evaluation, based on a written examination, specific to the domain covered by the project. The global satisfaction implies the satisfaction of the individual part.

References :

WEB sites - books from the sciences library and from the laboratories

Pedagogic team:

The various teams will be regularly followed and coached by professors and assistant professors of the faculty of engineers.

#### Other credits in programs

<b>INGE22/G</b>	Deuxième Ingénieur de gestion (Générale)	(10 credits)	Mandatory
<b>INGE22/PM</b>	Deuxième Ingénieur de gestion (Création d'entreprise)	(10 credits)	Mandatory