


 Faculty of Applied Sciences

MECA2991 PLANNING OF ENERGY SYSTEMS

[30h] 3 credits

This course is taught in the 1st semester

Teacher(s): Yves Smeers
Language: French
Level: Second cycle

Aims

Concentrate on a particular domain of the energy sector of special current relevance.

Main themes

The course is currently devoted to the economics of restructured electricity system.

The course covers the material on power market fundamentals, reliability price spikes and investment, market architecture and market power.

Content and teaching methods

The material follows Sotft's book "Power System Economics: Designing Markets for Electricity" Wiley 2002. The book allows one to apply many important and basic concepts of microeconomics to a particular field of the energy world. It also introduces the various questions faced by the electricity industry in its restructuring process.

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

Sotft's book "Power System Economics: Designing Markets for Electricity" Wiley 2002.

Other credits in programs

ELME22/E	Deuxième année du programme conduisant au grade d'ingénieur civil électro-mécanicien (énergie)	(3 credits)
ELME23/E	Troisième année du programme conduisant au grade d'ingénieur civil électro-mécanicien (énergie)	(3 credits)
MATR22	Deuxième année du programme conduisant au grade d'ingénieur civil en science des matériaux	(3 credits)
MECA22	Deuxième année du programme conduisant au grade d'ingénieur civil mécanicien	(3 credits)