

Faculty of Economic, Social and Political Sciences



CEMS2301 Supply Chain Modelling and management

[30h] 5 credits

Teacher(s): Per Joakim Agrell, Pierre Semal
Language: French
Level: Second cycle

Aims

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

- Distinguish strategic, tactic and operational problems in SCM.
- Understand the impact, feasibility and limitations of selected modeling techniques.
- Understand formal microeconomic analysis of the supply chain relations.
- Identify, formulate, solve and critically review some key coordination and control problems in the supply chain.

Main themes

This course focuses on the modeling of managerial coordination and control problems in the chain. By using in-depth knowledge from the fields of operations management, operations research and economics, valuable insight can be given for complex, integrated real-life problems.

Content and teaching methods

Content

Specific issues that will be discussed include: facility location, logistic network planning and design, routing, inventory management, supplier contracting, sourcing strategies, quality assurance, information technology, flexibility, globalization, and performance measurement.

Methods

The course format is interactive, theoretical sessions, readings and demonstrations intertwined with cases, computer simulations and company visits. A part of the class involves a CEMS corporate partner and their supply chain concepts

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

Other information

Prerequisite : PROD2200, PROD2101 or similar

Evaluation : Case reports and oral exam

Support: Chopra, S. and P. Meindl (2001) Supply Chain Management: Strategy, Planning and Operation, Prentice Hall.

References: see support

Pedagogic team: Teachers

Programmes in which this activity is taught

ECGE3DS/IM Diplôme d'études spécialisées en économie et gestion (Master in Business Administration) (management international)

ECGE3DS/SC Diplôme d'études spécialisées en économie et gestion (Master in business administration) (Supply Chain Management)

Other credits in programs

ECGE3DS/IM	Diplôme d'études spécialisées en économie et gestion (Master in Business Administration) (management international)	(4.5 credits)	Mandatory
ECGE3DS/SC	Diplôme d'études spécialisées en économie et gestion (Master in business administration) (Supply Chain Management)	(4.5 credits)	Mandatory
INGE23/PM	Troisième Ingénieur de gestion (Création d'entreprise)	(4.5 credits)	Mandatory