

## Faculty of Economic, Social and Political Sciences



### IAG3060 Filière Logistics and Supply Chain Management

[90h] 15 credits

**Teacher(s):** Per Joakim Agrell, Philippe Chevalier, Bernard Fortz, Etienne Loute, Yves Pochet  
**Language:** French  
**Level:** Third cycle

#### Aims

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

- Model deterministic and stochastic problems in supply chain planning.
- Analyse advanced modelling concepts for coordination and control problems.
- Apply relevant performance indicators for logistics systems.

#### Main themes

The aim of the course is to give students an overview of the different models and methods used in logistics and supply chain management.

#### Content and teaching methods

The course comprises two units presenting different operations research models used in operations management, and two units presenting the use of those models for the management of logistics and supply chain. The case study unit will ask students to put into practice material covered in the three other units. .

1. Deterministic models for operations management
2. Stochastic models for operations management
3. Performance assessment of logistics systems
4. Case studies and industry.

#### Methods

The course format is interactive, theoretical sessions, readings and demonstrations intertwined with cases, site visits, invited lectures and computer simulations. Course projects range from theoretical exercises to real-life cases with varying formats of presentation.

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

Prerequisite : PROD2101

Evaluation : Case reports, group work and an oral exam

Support: Chopra, S. and P. Meindl (2001) Supply Chain Management: Strategy, Planning and Operation, Prentice Hall, and a collection of scientific papers and readings..

References: see support

Pedagogic team: Teachers

#### Programmes in which this activity is taught

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

**Other credits in programs**

<b>ECGE3DS/SC</b>	Diplôme d'études spécialisées en économie et gestion (Master in business administration) (Supply Chain Management)	(15 credits)	Mandatory
<b>IAG23M</b>	Troisième année de Maîtrise en sciences de gestion (orientation "méthodes quantitatives de gestion")	(15 credits)	Mandatory
<b>INGE23</b>	Troisième Ingénieur de gestion	(15 credits)	Mandatory
<b>INGE23/G</b>	Troisième Ingénieur de gestion (Générale)	(15 credits)	Mandatory
<b>INGE23/PM</b>	Troisième Ingénieur de gestion (Création d'entreprise)	(15 credits)	Mandatory