

- Faculté des sciences économiques
- www.unine.ch/seco

Logistics and Supply Chain Management (5EN1030)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Bachelor en sciences économiques, orientation économie	Cours: 2 ph	Voir ci-dessous	3
Bachelor en sciences économiques, orientation économie politique	Cours: 2 ph	Voir ci-dessous	3
Bachelor en sciences économiques, orientation management	Cours: 2 ph	Voir ci-dessous	3
Pilier principal B A - management	Cours: 2 ph	Voir ci-dessous	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante

Prof. Dr. Eng. Nicolas Zufferey, GSEM - University of Geneva, n.zufferey@unige.ch

Prof. Dr. Eng. Olivier Gallay, HEC - University of Lausanne, olivier.gallay@unil.ch

Contenu

Schedule (14:00 - 18:00) and contents

Oct. 4 Distribution Requirement Planning (DRP). Balancing an Assembly Line.
 Oct. 11 Facility Layout. Vehicle Routing.
 Oct. 18 Quality Management.
 Oct. 25 Physical Internet and Resilient Supply Chains
 Nov. 8 Linear Programming and Facility Location.
 Nov. 15 Flow models for production problems.
 Dec. 6 Discussion of papers and question-answer session.

Forme de l'évaluation

Form of the evaluation : E

There will be a final exam (100% of the mark) covering the whole course, during the exam session. The exam is written and individual. Documents are forbidden. A basic calculator is allowed (containing only one line of information in its screen).

Retake exam: written exam (2 hours) during retake session (counts for 100% of the final grade).

Important: Documents are forbidden. Notes, texts, books and other documentation, as well as computers, connected phones and other connected electronic devices are not allowed in the examinations.

In case of violation of these rules, these items will be removed and the exam will be considered void.

Documentation

A copy of the slides (but not the ones with solutions) will be provided in PDF format.

There is no compulsory textbook. The student interested in going farther than the course can for example read the following documents.

- J. B. Dilworth (1989) Production and Operations Management - Manufacturing and Nonmanufacturing, McGraw-Hill Ryerson.
- J. G. Monks (1997) Operations Management: Theory and Problems, McGraw-Hill.
- R. B. Chase, F. R. Jacobs, and N. J. Aquilano (2004) Operations Management for Competitive Advantage, McGraw-Hill.
- W. L. Winston, and M. Venkataramanan (2002) Introduction to Mathematical Programming: Applications and Algorithms, Duxbury Press.

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Forme de l'enseignement

The professor will alternate between theoretical parts and the modeling/solution of exercises

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Select efficient solutions
- Formulate an optimization problem
- Define decisions, constraints and goals

Compétences transférables

- Carry out a critical analysis
- Decision making
- Apply knowledge to new situations