

Management des opérations

EM05GMB1IEB

Program

PGE

PGE 2A - International and European Business

UE

Operations management

Semester

A

Discipline

Supply chain management

Contact hours

20 H

Number of spots

69

Open to visitors

Yes

Language



Coordinator

Ridha DERROUCHE



List of lecturers

Lecturer(s)	Email	Contact hours - lecture
Dzmitry KUCHARAVY	dkucharavy@unistra.fr	20 h

Pedagogical contribution of the course to the program

LEARNING GOAL 1 : Students will master state-of-the-art knowledge and tools in management fields in general, as well as in areas specific to the specialized field of management.

Students will identify a business organization's operational and managerial challenges in a complex and evolving environment.

Students will understand state-of-the-art management concepts and tools and use them appropriately.

Students will implement appropriate methodologies to develop appropriate solutions for business issues.

LEARNING GOAL 2 : Students will develop advanced-level managerial skills.

Students will work collaboratively in a team.

Description

This course aims to demonstrate that the development of a company is no longer solely linked to its own internal factors, but increasingly depends on external factors.

Therefore, Supply Chain Management has imposed itself on companies as a strategic tool for global coordination associating all the players in the flow chain.

Indeed, supply chain management is the art and the way to make the right product available, at the right time, in the right place, with the right quantity, at the lowest cost and at the right customer.

Supply Chain Management provides the tools and concepts to identify and redesign the physical and information flows: from production to supply, from storage to purchasing and to distribution.

This module offers a transversal competence to better understand the new challenges of future managers, the deployment of a Supply Chain management which aims at the progressive integration of the upstream and downstream of the company (suppliers and customers) to achieve global performance and value creation.

Teaching methods

Face-to-face

- Lectures

In group

- Exercises
- Projects
- Case studies/texts

Interaction

No items in this list have been checked.

Others

No items in this list have been checked.

Learning objectives

Cognitive domain

Upon completion of this course, students should be able to

- - (level 1) **recall** what the supply chain is and how it is structured
 - - (level 2) **explain** the different Supply Chain Information Systems
 - - (level 3) **show** the importance of collaborative approaches between the actors of the same Supply Chain
 - - (level 3) **implement** the different stages of the production planning process Manufacturing Planning and Scheduling (MPS), Manufacturing Resource Planning (MRP) and Distribution Resource Planning (DRP)
 - - (level 4) **figure out** an integrated ERP information system (Prelude)
 - - (level 5) **measure** a Sales & Operation Planning (SOP) with different scenarios
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Affective domain

Upon completion of this course, students should be able to

None affective domain have been associated with this course yet

Outline

Session 1: Introduction to Supply Chain

Session 2: Supply chain management (SCM) Information Systems (APS, SCE, MES, ...)

Session 3: ERPs with some examples (SAP & BAAN)

Session 4: Case study with ERP Prélude

Session 5: Pull vs. push flows & Introduction to the MRP2 loop

Session 6: Long term planning: elaboration of a Sales & Operation Planning (SOP) with different scenarios

Session 7 et 8: Medium- and short-term planning: elaboration of Manufacturing Planning and Scheduling (MPS) and Manufacturing Resource Planning (MRP) with different examples

Session 9: Distribution planning and the MRP-DRP link

Session10: Inventory Management & Lean Management

(Note: the breakdown of the sessions is given as an indication, the teacher adapts to the students' rhythm)

No prerequisite has been provided

Knowledge in / Key concepts to master

This course is a continuation of the course: EM08FM7BB1 Supply Chain management in 1A but is not essential to follow this course in 2A

Teaching material

Mandatory tools for the course

- Computer

Documents in all formats

- Photocopies
- Case studies/texts
- Worksheets

Moodle platform

- Upload of class documents
- Interface to submit coursework
- Assessments
- Coaching/mentoring
- Other :

Software

- Other :

Additional electronic platforms

No items in this list have been checked.

Recommended reading

Main reading material

- Supply Chain Management - Lyonnet, Barbara, Senkel, Marie-Pascale, Clamens, Sylvie, Editeur: Dunod, Année de Publication: 2019, pages: 250, ISBN: 978-2-10-078866-8
- E-Manufacturing and Supply Chain Management, Greeff, Gerhard, Ghoshal, Ranjan, Editeur: Elsevier Science, Année de Publication: 2004, pages: 475, ISBN: 978-0-7506-6272-7

Note: both books are also available electronically at ScholarVox: <https://bu.unistra.fr/opac/.do?#2>

Additional literature

- Marchal, André. 2018. SUPPLY CHAIN MANAGEMENT : Logistique Globale. 2e ed. Paris: Ellipses.
 - Fender, Michel, and Yves Pimor. 2013. Logistique & Supply Chain. 6e édition. Paris, France: Dunod. <https://bu.unistra.fr:443/.do?idopac=BUS0317620>.
 - Basu, Ron, and J. Nevan Wright. 2008. TOTAL SUPPLY CHAIN MANAGEMENT. Oxford: Butterworth-Heinemann. <https://bu.unistra.fr:443/.do?idopac=BUS1295485>.
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EM Research: Be sure to mobilize at least one resource

Textbooks, case studies, translated material, etc. can be entered

"Supply Chain Planning: potential generalization of parameterization rules based on a literature review", (D. Damand, M. Bart, R. Derouiche, S. Cherbi-Gamoura), Supply Chain Forum: An International Journal, 2019 [CNRS cat. 4 / FNEGE rang 3]

"Value creation through collaborative supply chain: holistic performance enhancement road map", (P. Holimchayachotikul, R. Derrouiche, D. Damand, K. Leksakul), Production Planning and Control, 2013 [CNRS cat. 2 / FNEGE rang 2 / HCERES]

"Comment développer des supply chains résilientes?", YUAN YAO in : Rouquet, A., and Fabbe-Costes, N., "in : La logistisation du monde. Chroniques sur une révolution en cours", Presses Universitaires de Provence, 1 ed., 2019

"Collaborative Design of Warehousing 4.0 Using the Concept of Contradictions", in : Camarinha-Matos, Luis M., Afsarmanesh, Hamideh, Rezgui, Yacine (Eds., "in : Collaborative Networks of Cognitive Systems", SPRINGER, septembre 2018, (with Damand D., Barth M., Derrouiche R., dmitry kucharavy)

Assessment

List of assessment methods

Intermediate assessment / continuous assessment 1 Class no. Between Sessions 4 and 6

Written (120 Min.) / Individual / English / Weight : 30 %

This evaluation is used to measure L01.1, L01.2, L01.3

Intermediate assessment / continuous assessment 2 Other (date, pop quiz, etc.) : Different sessions

Written and oral / Group / English / Weight : 20 %

This evaluation is used to measure L01.1, L01.2, L01.3, L02.1

Final evaluation Exam week

Written (120 Min.) / Individual / English / Weight : 50 %

This evaluation is used to measure L01.1, L01.2, L01.3