

Course Specifications

From the academic year 2016-2017 up to and including the

Supply Chain Management (F000710)

Course size (nominal values; actual values may depend on programme)
Credits 6.0 Study time 180 h Contact hrs 45.0 h

Course offerings and teaching methods in academic year 2018-2019

A (semester 2)	English	seminar: coached exercises	7.5 h
		seminar: practical PC room classes	2.5 h
		lecture	25.0 h
		group work	10.0 h

Lecturers in academic year 2018-2019

Aouam, Tarik EB24 lecturer-in-charge

Offered in the following programmes in 2018-2019	crdts	offering
Master of Science in Business Engineering (main subject Data Analytics)	6	A
Master of Science in Business Engineering (main subject Finance)	6	A
Master of Science in Business Engineering (main subject Operations Management)	6	A
Master of Science in Economics	6	A
Exchange programme in Economics and Business Administration	6	A

Teaching languages

English

Keywords

Supply chain management, Integrated logistics

Position of the course

The logistic management of material flows has an important impact on the organisation's competitiveness. More and more companies realize that the management scope of the material flow cannot be limited to the factory walls and has to be considered as part of a broader logistics network (the supply chain). Together with partner companies, a company needs to strive towards an ideal supply chain and an effective management system. This way companies are in a position to respond to the increasing pressure to shorten delivery times, enhance flexibility and reduce costs. It is the objective of the course to make the students aware of the importance of supply chain management and to teach them the concepts and techniques necessary to analyse and optimize a supply chain.

Contents

1. Supply chain strategy
2. Supply chain network design
3. Matching supply and demand
4. Inventory management in supply chains
5. Transportation in supply chains
6. Sourcing decisions in supply chains
7. Pricing and revenue management
8. Supply chain coordination: the bullwhip effect

Initial competences

Operations management, Operations research.

Final competences

- 1 Distinguishing the different drivers of logistics management and the decisions to be made, and relating these to each other.
- 2 Categorizing supply chain management decision problems into strategic, tactical and operational decision levels.
- 3 Explaining the importance of risk management and information systems in supply chain management.
- 4 Designing mechanisms for coordination and integrated decision making across different stages to improve supply chain performance.
- 5 Professionally reporting the results of a comprehensive supply chain management project.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Group work, lecture, seminar: coached exercises, seminar: practical PC room classes

Extra information on the teaching methods

Course sessions are a combination of

- 1 lectures
- 2 exercises and case studies
- 3 guest lectures

Learning materials and price

Mandatory reference book: (Estimated price: €50)

S. Chopra and P. Meindl, 2013, "Supply Chain Management: Strategy, Planning and Operation (Fifth Edition, Global Edition)", Pearson, ISBN 0-273-76522-1.

Lecture slides, articles, exercises and case study material are available on Minerva.

References

- Snyder, L., Shen, Z. J. M., 2011, Fundamentals of Supply Chain Theory, John Wiley, ISBN: 978-470-52130-4.
- D. Simchi-Levi, P. Kaminsky and E. Simchi-Levi, 2008, "Designing and Managing the Supply Chain (3rd Ed.)", McGraw Hill Higher Education, ISBN 0-071-28714-0.

Course content-related study coaching

Support by the teacher on appointment.

Teaching material is available through Minerva.

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Written examination

Examination methods in case of periodic evaluation during the second examination period

Written examination

Examination methods in case of permanent evaluation

Oral examination, assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible in modified form

Extra information on the examination methods

End-of-term

- written exam: exercises and comprehensive questions

Permanent

- A supply chain management project: written report and oral presentation.

Calculation of the examination mark

End-of-term: 70%

Permanent: 30%