



Supply Chain Management & Purchasing

Supply Chain Management & Inköp (LOG 2)

7.5 credits

Ladok Code: 41T08B

Version: 4.0

Established by: The Teaching Committee 2012-04-20

Valid from: Autumn 2011

Education Cycle: First cycle

Main Field of Study (Progressive Specialisation): Industrial Economics (G1F)

Disciplinary Domain: Technology

Prerequisites: Meets the requirements for acceptance as a Graduate Engineer.

• Recommended prerequisites:

Knowledge of logistics equivalent to the course in The Tools and Methods of Logistics

Subject Area: Industrial Engineering and Management

Grading Scale: ECTS-credits

Content

The course provides more in-depth knowledge about logistics and supply chain management, as well as suitable methods, techniques and tools for implementing changes that result in more efficient logistics and greater competitiveness in a supply chain. The course includes the following:

Logistics and supply chains; definitions, concepts, structure, the opportunities of competition; the customer perspective, adapted logistics strategy

Internationalisation and its logistical consequences, risk management within the supply chain

Managing lead times, tempo, bottlenecks; measures for more efficient flows, improved responsiveness and reduced risk

Just in time and lean thinking

Total flexibility (agility)

Variations, complexity

Collaboration and integration within the supply chain, ECR, IT tools, partnership

Driving forces for change work

Renewal and change problems in logistics chains

Global transport, Incoterms

Risk management for logistics chains

Basic knowledge of purchasing work

Sourcing

Total cost analyses

Legal aspects of purchasing

Supply partnership and purchasing power

Negotiation

Purchasing work in other industries

Learning Outcomes

After completing the course, students will be expected to be able to:

- Identify and explain central concepts within the fields of logistics and supply chain management
- Understand and take into account how customer demands and customer values affect a company's logistics systems and processes
- Apply methods relating to time, quality and costs in order to improve the efficiency of logistics and increase the competitiveness of the supply chain
- Account for strategic logistical measures through e.g. segmentation and differentiation. Understand and take into account what growing internationalisation means for logistics
- Know the importance of lead times and bottlenecks, and be able to apply methods to control them

- Apply lean and just in time thinking within a supply chain
- Understand when total flexibility (agility) is appropriate and be able to explain differences and possible combinations between a lean approach and an agility approach
- Explain the importance of collaboration and integration within supply chains, and be able to account for different tools for this, such as within the field of IT
- Account for why different logistical approaches are applied in practice in a basic way
- Describe how value chains and transportation chains are affected by globalisation, and how this can be dealt with in a practical case
- Analyse a logistics process from an efficiency perspective and suggest improvements on the basis of this analysis
- Explain the purchasing function's field of responsibility
- Explain different models and strategies for purchasing
- Explain the procedure for choosing suppliers
- Describe purchasing work from a total cost perspective
- Analyse a purchasing process and suggest improvements

Forms of Teaching

The teaching consists of lectures, seminars with oral and written presentation of seminar tasks, and project work.

Forms of Examination

The course will be examined through the following examination elements:

Learning outcomes:

Credits: 2

Grading scale: Fail (U) or Pass (G)

Examination

Learning outcomes:

Credits: 3

Grading scale: ECTS-credits

Learning outcomes:

Credits: 2.5

Grading scale: Fail (U) or Pass (G)

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Materials

Harrison, A., and van Hoek, R. (2011): Logistics Management and Strategy, Harlow, Prentice Hall

Additional materials to be distributed during the course

Student Influence and Evaluation

The head of department and the course coordinator are responsible for ensuring that students' views on the course are systematically and regularly obtained. The results of the evaluations will be reported back to the students and will form the basis for the future structure of the course.

Miscellaneous