



Supply Chain Management (for incoming students) Styrning av försörjningskedjor (för inresande studenter)

7.5 credits

7.5 högskolepoäng

Ladok Code: A904TI

Version: 3.0

Established by: Utskottet för utbildningar inom teknik 2018-09-03

Valid from: Autumn 2018

Education Cycle: First cycle

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

Disciplinary Domain: Technology

Prerequisites: Fulfill the demands for the admission of Bachelor of Engineering (or similar).

Subject Area: Industrial Engineering and Management

Grading Scale: Seven-degree grading scale (A-F)

Content

The course gives a deeper knowledge about logistics and supply chain management. Students also learn about appropriate methods, techniques and tools to achieve more efficient logistics and enhanced competitiveness in a supply chain.

The course content helps to understand how logistics and supply chains work and how supply chains are affected by the application of different theories and methods. The course treats fundamental theories and terms related to logistic strategies, effects of globalization, just-in-time, risk management, business systems, flexibility, co-operations within the supply chain, negotiations, purchasing, partnership and transports.

A group project gives students an understanding of the application of fundamental logistics tools and methods.

Learning Outcomes

After completing the course the student should be able to:

Knowledge and understanding

- 1.1 identify and explain central concepts in the fields of logistics and supply chain management,
- 1.2 describe for strategic actions in logistics like segmentation and differentiation,
- 1.3 explain the meaning of lead times and bottlenecks,
- 1.4 explain the meaning of cooperation and integration in supply chains,
- 1.5 describe why different approaches of logistics are applied in practical contexts,
- 1.6 describe how value chains and transport chains are affected by globalization,
- 1.7 explain different models and strategies for purchasing,
- 1.8 explain the process of choosing suppliers,
- 1.9 describe purchase work from a total cost perspective,
- 1.10 describe and explain fundamental logistics functions.

Skills and abilities

- 2.1 apply methods related to time, quality and costs in order to make the logistics more efficient and enhance the competitiveness of the supply chain,
- 2.2 explain and take into account what an increased internationalization means for logistics,
- 2.3 apply lean- and just-in-time-thinking in a supply chain,
- 2.4 explain when agility is suitable and be able to explain the differences and possible combinations of a lean and agile approach,
- 2.5 explain the role purchasing in a supply chain,
- 2.6 present his/her own work in a clear and structured way,

2.7 explain what Enterprise Resource Planning systems (ERP) are and how they affect the supply chains,
2.8 apply methods related to the role of logistics in organizations and supply chains.

Judgement and approach

3.1 explain and take into account how customer requirements and customer value affects a company's logistics system and processes,
3.2 analyze existing logistics- or purchasing solutions and suggest improvements based on the analysis.

Forms of Teaching

The teaching consist of lectures, seminars with both written and oral presentations of the tasks and guidance in conduction of a project work.

Reports and hand-ins are to be written in English.

The language of instruction is English.

Forms of Examination

The course will be examined through the following moments:

- Written examination

Goals: 1.1-1.9

Credits: 3,0

Grading: A-F

- Seminar 1 Agile/Lean

Goals: 2.1-2.4, 3.1-3.2

Credits: 1,0

Grading: Pass/Fail

- Seminar 2 IT/ERP

Goals: 2.1-2.2, 2.7, 3.1-3.2

Credits: 1,0

Grading: Pass/Fail

- Report and oral presentation

Goals: 1.10, 2.1, 2.6, 2.8, 3.1-3.2

Credits: 2,5

Grading: Pass/Fail

The final grade is based on results from the examination "Written examination" and decides grades on the whole course. Grades are set after all the examinations are passed.

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

Literature and Other Teaching Methods

Harrison, Alan, Hoek, Remko I. van & Skipworth, Heather (Latest edition). *Logistics management and strategy: competing through the supply chain*. Harlow, England: Pearson

Jonsson, Patrik (2008). *Logistics and supply chain management*. Maidenhead: McGraw-Hill

Scientific articles

Additional material that is handed out during the course.

Student Influence and Evaluation

The course is evaluated according to the rules for course evaluation at the University of Borås, were the students views are collected. Analysis of these views results in a course report that is published and shared with students of subsequent Introduction to Supply Chain Management courses. The report also forms the base for developing the course. The person responsible for the course is responsible for this evaluation.

Miscellaneous

The course is given only for incoming students.

Students are recommended to have studied a basic course in logistics.