



Logistics and Demand Driven Systems Logistik och efterfrågestyrda system

7.5 credits

Ladok Code: 52SF01

Version: 2.0

Established by: The Teaching Committee 2012-09-11

Valid from: Autumn 2011

Education Cycle: Second cycle

Main Field of Study (Progressive Specialisation): Industrial Economics (A1N), Textile Management (A1N)

Disciplinary Domain: Technology

Prerequisites: Bachelor of Science degree in textile engineering or textile economics, plus English B

Subject Area: Leadership, Organisation and Management

Grading Scale: ECTS-credits

Content

The course starts with an introduction/reiteration about fundamental logistics, based on the book "Logistics management and strategy

- Introduction to logistics and material supply
- definitions and terms, structures and strategies.
- (Customer) value, service quality.
- logistics costs, capital costs and return on capital employed.
- quality measurements in the supply chain.
- international aspects, global sourcing, risk management.
- strategic planning, management and diagnostic tools.
- lead times, bottlenecks and cost control.
- lean logistics, just-in-time, quick response.

Then the textbook "Dynamic supply chains" is used to provide the students with theoretical knowledge about design, development and management of demand-driven and partnership-based supply chains. Inter-organisational processes and relationships are key factors for success in this type of market channels.

- Development from standardisation and cost minimising to demand chains and tailored solutions
- Business models and competition behaviour
- Market channels as open systems
- Interaction and dynamic balancing of strategies and behaviours
- Inter-organisational processes and relationships
- Competition between market channels
- Integration and co-ordination of production and consumption systems
- Strategic and innovative approaches for integrated market channels

Learning Outcomes

After completing this course, students should have applicable knowledge of the theory and practical work involved in controlling supply chains, based primarily on logistics and business process from sources of raw materials and materials suppliers via manufacturing and processing to the end customer; and how customer value and customer demand can be integrated in that work.

After completing and passing the course, students should be able:

- to describe and use the terminology, terms and tools linked with the control of supply and demand chains.
- to understand and use the terminology and terms in advanced logistics and materials supply.
- to apply theory and models for the development of efficient supply and demand chains.

- to describe the development of logistics from focus on cost to emphasis on value
- to model and critically review function and working methods among supply chains in the textile industry.
- to design processes and relationships for creating unique customer values, and argue for such choices
- to describe roadmaps for the development of collaboration and integration between autonomous players in supply and demand chains
- to analyse independently problems related to logistics, supply chains and inter-organisational processes, and develop action plans to improve and integrate logistics procedures and supporting information and communication systems

Forms of Teaching

Lectures, supervision, case studies as a basis for discussion and independent project work based on scientific articles. Teaching will take place in English.

The language of instruction is English.

Forms of Examination

Written examinations, 3.5 HEC. Grading scale EC

Seminar presentation, 1.0 HEC Grading scale pass/fail

Written project report and oral presentation 3,0 HEC. Grading scale EC

Grades for the complete course are based on the weighted average of the grades for the examination items written examination and written report and oral presentation, respectively, and requires that the seminar presentation is passed.

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. & R. van Hoek, Logistics management and strategy, Harlow 2010
- Gattorna, J., Dynamic supply chains: delivering value through people, Harlow 2010

Student Influence and Evaluation

The views of students will be collected systematically and regularly by means of written course assessments once courses are complete. Student representatives will work together with the Director of Studies and the course manager once a term to review courses held. For further information, please see the university policy on course assessments and documents prepared by the Institutional Board, Director of Studies and course manager.

Miscellaneous

The course is primarily a programme course for a Master's programme in Textile Management with specialisation in textile value chains.