



Logistics and Demand Driven Systems Logistik och efterfrågestyrda system

7.5 credits

Ladok Code: 52SF01

Version: 1.1

Established by: The Teaching Committee 2011-05-10

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

Introductions to logistics och materials 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.
- demand-driven supply chains and control of demand chains.
- agility, complexity and control of variations.
- the design link.
- the role of information systems in e-logistics.
- delivery planning, forecasting and stock replenishment.
- supply chain management, integration, partnership and networks.
- the strategic role of logistics in the supply chain.
- the demand chain concept.
- innovative logistics systems.

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.

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 contemporary research results and their application in respect of methods and technology preliminary strategy, control and analysis of supply and demand chains.
- to model and critically review function and working methods among supply chains in the textile industry.
- to develop action plans in order to enhance logistics procedures and supporting information and communication systems.

- to formulate strategies for logistics control which suit companies' management strategies for e-commerce, among other things.
- to suggest procedures for developing a demand perspective on textile businesses' operations.

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

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

Literature and Other Teaching Materials

- Logistics management and strategy, Harrison, A. & Van Hoek, R.,

Student Influence and Evaluation

The views of students will be canvassed 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 College's 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.