



Course syllabus

Faculty Board of Business, Economics and Design
School of Business and Economics

2FE035 Fördjupningskurs I i logistik, 30 högskolepoäng
Specified course I in Business Logistics, 30 credits

Main field of study

Business Administration

Subject Group

Business Administration

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved by the Board of the School of Business and Economics 2009-12-16

Revised 2012-04-02. Revision of expected learning outcomes and examination forms

The course syllabus is valid from autumn semester 2012

Prerequisites

Business Administration 1-60 higher education credits or the corresponding.

Objectives

Module 1. Distribution Management, 6 cr

After completing this course the student should be able to:

- Thoroughly account for distribution structures and delivery service
- Account for and classify the actors in the transportation industry
- Explain IT as an enabler in the distribution channel
- Account for and analyze environmental aspects related to the logistics system
- Apply transportation and logistics law with a focus on Incoterms
- Apply safety stock dimensioning and advanced inventory management
- Identify and critically discuss problems and situations within a theory area associated with distribution

Module 2. Production management, 6 cr

After completed course the student should be able to:

- Explain the role of production management in the logistics system and in society

- Account for different generic production layouts and select an appropriate layout in a given production logistics situation.
- Search and select appropriate data and apply the appropriate forecasting method for this data.
- Conduct broad inventory management calculations and customer service calculations together with interpreting and assessing the findings.
- Account for carriers, packaging, information systems and their role in a sustainable logistics system.

Module 3. Logistics quality and process management, 6 cr

After completed course the student should be able to:

- Account for basic concepts in quality and quality management
- Apply quality tools and models for customer satisfaction in a logistics perspective
- Understand the impact of process orientation and process management for the development of logistics systems
- Conduct process mapping and quality measuring in a limited area, identify and analyze quality deficiencies and critically discuss improvement suggestions

Module 4. Strategic purchasing and negotiations 6 cr

After completed course the student should be able to:

- Show advanced knowledge of purchasing and materials supply
- Account for supplier evaluation and supplier development
- Apply multiple criteria differentiation of a product assortment
- Apply business negotiations with ethical behavior, CSR and codes of conduct.

Module 5. Project within business logistics, 6 cr

After completed course the student should be able to:

- Formulate and critically discuss questions for a limited reality-based logistics problem
- Plan and conduct a logistics project in a real company/a real organisation
- Search and select applicable theory and apply logistics knowledge on a real problem
- Critically discuss empirical data in relation to the selected theory
- Report in written form and present and discuss findings in different contexts (in seminars and at the company)

Content

Module 1 Distribution management 6 credits

Distribution structure; definitions, inventory structures, physical flows, determination points, ordering systems and delivery service.

The transportation industry; supply, production, development, infrastructure issues and IT solutions.

Basic transportation and logistics law, the use of Incoterms.

Environmental aspects of the logistics system

Description of marketing channels and their actors. The division of roles between the actors in the channel. Organisation, integration and forms of collaboration, conflict resolution strategies and leadership within the marketing channel.

Quantitative models. The moment contains quantitative models for flow analyses in the distribution channel. Safety stock dimensioning of distribution stocks including basic probability and some important probability distributions and DRP (Distribution

Requirement Planning).

The writing of the introduction chapter of a theoretical paper

Module 2 Production management 6 credits

Material planning and control; techniques and methods for planning and control of material flows in different planning horizons and production environments. Methods with particular focus are master production scheduling, order planning, capacity planning and operation planning

Forecasting methods; qualitative and quantitative

Methods for lot sizing with limited capacity, variable demand, periodic/continuous inspection.

Manufacturing process types and the related basic layout types

Production processes; lean production

Carriers and information systems, packaging, identifications systems and handling.

Module 3 Logistics quality and process management 6 credits

Quality management. Central concepts, history and importance. Approaches to continuous improvement. Quality measurements and quality tools.

Process management. Central concepts, process mapping. Process design, control and improvement. Process management measurements

Customer satisfaction. Importance, measurement methods

Quality approaches. ISO9000:2000, Utmärkelsen Svensk Kvalitet, QS9000/TS16949

Logistics quality. Measuring logistics performance, the SCOR model.

Module 4 Strategic purchasing and negotiation 6 credits

The roles and objectives of purchasing, its strategical importance and organisational position

Purchasing strategies and principles, purchasing tools

The purchasing process

Supplier evaluation and supplier development, network thinking

Product and supplier differentiation

Computer labs

Negotiations including ethical behavior, CSR and codes of conduct

Module 5 Project within business logistics 6 credits

The student should assign 1-2 days a week during one semester for the course.

Project work out of a perceived company- identified problem.

Problem discussion, limitation and practical planning.

Literature search and review.

Data collection and analysis.

Written presentation and in seminars.

Report writing.

Reporting in the company and at a final seminar.

Type of Instruction

Module 1. Distribution Management, 6 cr

Teaching consists of lectures, exercises and tutorial meetings. Participating in seminars and guest lectures is compulsory.

Module 2. Production Management, 6 cr

Teaching consists mainly of lectures and exercises. Cases, guest lectures and field visits could also be part of the course. Participating in case-seminars, field visits and guest lectures are compulsory.

Module 3. Logistics Quality and Process Management, 6 cr

Teaching consists of lectures, group assignment tutorial meetings and seminars.

Participating in seminars and guest lectures is compulsory.

Module 4. Purchasing Management and Negotiation, 6 cr

Teaching consists of lectures, guest lectures, computer labs and negotiation exercises. Participation in guest lectures and negotiation exercises are compulsory.

Module 5. Project within Business Logistics, 6 cr

Problem based learning with tutoring and seminars.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

For a passing grade, the expected learning outcomes have to be fulfilled; the basis for the grade is how well the expected learning outcomes are met. The weighing of grades to a course grade is done based on the document "Principer för betygsrapportering" dnr 2011/160.

Students who do not achieve a satisfactory result in the examinations are permitted to make a second attempt approximately 5-8 weeks after the normal examination date. The student will have a minimum of five occasions for written exams in relation to the syllabus to which the student was accepted. Usually 3 occasions per academic year.

Module 1. Distribution systems 6 cr

The course is examined by two individual written exams, where one is theoretical and one is quantitative. The students also write a theoretical paper.

Module 2. Production management 6 cr

The course is examined by an individual written exam and a groupwise lean production game.

Module 3. Logistics quality and process management 6 cr

The course is examined by an individual written exam and a group paper.

Module 4. Strategic purchasing and negotiation 6 cr

The course is examined by an individual written exam, computer laborations and a negotiation workshop.

Module 5. Project within business logistics 6 cr

The projects are graded by continuous follow-ups and seminars. Participation is compulsory.

Course Evaluation

A written evaluation is conducted and compiled in a report, which is filed at the department. The result and actions, if taken, are communicated to the teacher responsible for the course and presented to the students in the way most appropriate according to the teacher responsible for the course. Other types of evaluations, such as continuous during the course or oral communication with the students, can occur and is encouraged to secure continuous quality improvement.

Required Reading and Additional Study Material

Mandatory literature

Module 1. Distribution Management, 6 cr

Coughlan, A.T, Anderson, E, Stern, L.W, El-Ansary, A.I. Marketing Channels, Prentice Hall, latest edition. 575 p.

Nahmias, S. Production and Operations Analysis, McGraw-Hill, latest edition. 500 p.

Articles as advised by course responsible 100 p.

Module 2. Production Management, 6 cr

Nahmias, S. Production and Operations Analysis, McGraw-Hill, latest edition. 500 p.

Module 3. Logistics Quality and Process Management, 6 cr

Bergman, B., Klefsjö, B. Kvalitet från behov till användning, Studentlitteratur, latest edition. 640 p.

Ljungberg, A. Larsson, E. Processbaserad verksamhetsutveckling, Studentlitteratur, latest edition. 350 p.

Module 4. Purchasing Management and Negotiation, 6 cr

Van Weele, A. Purchasing and Supply Chain Management – analysis, planning and practice, International Thompson Business Press, latest edition. 363 p.

Module 5. Project within business logistics, 6 cr

No mandatory literature. The student select literature based on each project and together with the tutor.