



Course syllabus

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

2FE049 Supply Chain Management, 30 högskolepoäng
Supply Chain Management, 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 2009-12-15

Revised 2010-06-14

The course syllabus is valid from autumn semester 2010

Prerequisites

In order to be admitted to the course, students are required to have a minimum of two years of successfully completed University studies (120 credits) when starting the course. This should include preferably 60 credits in Business Administration.

Expected learning outcomes

Business Logistics, 7,5 credits

- Knowledge of logistics approaches and strategies
- Knowledge of distribution and delivery service
- Knowledge of the role of production logistics and materials- and production management
- Knowledge of purchasing and supply management
- Applied knowledge of total cost analysis and basic inventory management
- Problematized knowledge of a limited theoretical logistics problem

Production Management, 7,5 credits

- Advanced knowledge of the role of production management and the role of inventory production control
- Knowledge of production layouts
- Knowledge of strategic implications of logistics decisions
- Applied knowledge of methods for lot sizing

- Problematized knowledge of a limited theoretical logistics problem related to production

Industrial Organisation and Management,
7,5 credits

- Advanced knowledge of modern aspects of industrial organization and management
- Knowledge of interorganizational networks
- Problematized knowledge of organizational and managerial consequences of flow oriented work organization

Purchasing and Supply Chain Management, 7,5 credits

- Advanced knowledge of purchasing
- Knowledge of supplier evaluation and supplier development
- Knowledge of supply chain management
- Applied knowledge of studying supply chains

Content

Module 1 Business Logistics 7.5 credits

Logistics as a strategy; definitions and concepts, history, strategies and organisation
Distribution and delivery service; delivery service elements, differentiation, channels of distribution, Supply Chain Management

Materials- and production management; planning environment, methods of material planning

Purchasing and supply; importance of purchasing, purchasing roles and strategic purchasing

Logistics efficiency; uncertainty reduction, lead times and capital, postponement etc

Quantitative logistics models; total cost analysis and inventory management

Module 2 Production management 7.5 credits

The role of production management in the logistics system

Materials planning and control; techniques and methods for planning/control of materials flows in different planning horizons and production environments. Methods with particular focus are master production scheduling, order planning and operations planning

Methods for lot sizing

Manufacturing process types and basic layout types are related and discussed

Module 3 Industrial organization and Management 7.5 credits

The changing context for organizing

Virtual corporations

Process Management

Working in and with networks

Module 4 Purchasing and Supply Chain Management 7.5 credits

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

Purchasing strategies and principles, purchasing tools

The purchasing process

Supplier evaluation and supplier development, network thinking

Product and supplier differentiation

Supply Chain Management

Type of Instruction

The teaching consists of lectures, exercises, seminars, literature analysis and cases. Teaching in class in about 12 hours a week. Students are thus required to do a large amount of work, like reading the literature, on their own.

Examination

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

The examination consists of written examinations both individually and in groups.

The grading is based on assessment of the written exams, reports and the student's ability to present and discuss report contents. Results are graded using one of the terms Passed with distinction, Pass or Fail, and A-F according to the ECTS scale.

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.

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

Jonsson, P. Logistics and supply chain management, McGraw-Hill, latest edition 460 p.

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

Rentzhog, O. Core Process Management, Linköping university, 1996 (Liu-Tec-Lic 1996-07) 220 p

Normann, Ramirez. Designing Interactive Strategy: From Value Chain to Value Constellation, Chichester: Wiley, 1998 245 p

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

Christopher, M. Logistics and Supply Chain Management; strategies for reducing cost and improving service, Prentice Hall, latest edition 280 p