



Course syllabus

School of Business and Economics

Department of Management Accounting and Logistics

2FE084 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 2016-03-23

Revised 2018-11-28 by School of Business and Economics. Literature revision.

The course syllabus is valid from autumn semester 2019

Prerequisites

Business Administration 60 credits and English B/English 6 or the equivalent.

Objectives

Module 1. Distribution Management, 6 credits

After completing the module the student is expected to 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 credits

After completing the module the student is expected to be able to:

- explain the key production management decisions on tactical and operational level and the influence these have on the logistics system and in society at large
- search for, select and use the appropriate data to make these types of production management decisions

Module 3. Logistics Quality and Process Management, 6 credits

After completing the module the student is expected to be able to:

- account for basic concepts in quality and quality management
- apply quality tools and models for customer satisfaction in a logistics perspective
- explain 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. Sustainable Purchasing and Negotiations, 6 credits

After completing the module the student is expected to be able to:

- discuss and contextualize knowledge of purchasing, materials supply and sustainability
- apply models for purchasing
- perform quantitative purchasing analyses
- perform business negotiations

Module 5. Project within Business Logistics, 6 credits

After completing the module the student is expected to 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

The module contains:

- 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
- quantitative models; this part 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)

Module 2 Production Management 6 credits

The module contains:

- forecasting methods; qualitative and quantitative
- material planning and production 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
- methods for lot sizing with limited capacity, variable demand, periodic/continuous inspection
- manufacturing process types and the related generic production layouts

Module 3 Logistics Quality and Process Management 6 credits

The module contains:

- quality management - central concepts, approaches to continuous improvement, quality measurements and quality tools
- quality systems - the ISO9000/ISO9000:2000 series, quality management principles
- customer satisfaction - importance, measurement methods
- process management - central concepts
- development of processes - process mapping, process design, control and improvement

Module 4 Sustainable Purchasing and Negotiation 6 credits

The module contains:

- sustainability in a purchasing / procurement context - ethics, CSR and codes of conduct
- the roles and objectives of purchasing, its strategical importance
- purchasing strategies, principles and models
- the purchasing process
- public procurement
- quantitative purchasing analysis
- supplier evaluation and supplier development, network thinking
- negotiations
- the organisation of purchasing
- computer labs

Module 5 Project within Business Logistics 6 credits

The module contains:

- project work at a company, approximately 1-2 days a week during one semester
- 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 credits

Teaching consists of lectures, exercises and tutorial seminars. The students are supervised during the writing of the paper. Obligatory parts are stated in the schedule.

Module 2. Production Management, 6 credits

Teaching consists of lectures and exercises. Cases, laboratory sessions and field visits are also part of the course. Obligatory parts are stated in the schedule.

Module 3. Logistics Quality and Process Management, 6 credits

Teaching consists of lectures, group assignment, tutorial meetings and seminars. Obligatory parts are stated in the schedule.

Module 4. Sustainable Purchasing and Negotiation, 6 credits

Teaching consists of lectures, computer labs, seminars and negotiation exercises. Obligatory parts are stated in the schedule.

Module 5. Project within Business Logistics, 6 credits

Tutoring and seminars. Obligatory parts are stated in the schedule.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

Module 1. Distribution Systems, 6 credits

The module is examined by written exam, case, laboration, and a paper with seminar.

Module 2. Production Management, 6 credits

The module is examined by an individual written exam and a group assignment.

Module 3. Logistics Quality and Process Management, 6 credits

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

Module 4. Sustainable Purchasing and Negotiation, 6 credits

The module is examined by an individual written exam, computer labs, a negotiation workshop and active presence at seminars.

Module 5. Project within Business Logistics, 6 credits

The module is examined by continuous follow-ups and seminars.

Concerning all modules:

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

After each regular examination there will be at least one new examination in close proximity to the date the results of the regular exam were posted. Students who are close to the passing grade of reports can complement after instructions and time-frame given by the examiner to obtain a pass grade.

Grading criteria for the A–F scale are communicated in writing to the student by the start of the module at the latest. ****

Course Evaluation

During the implementation of the course or in close connection to the course a course evaluation is to be carried out. Result and analysis of the course evaluation is to be presented as feedback both to the students who have completed the course and to the students who are to participate on the course the next time it is offered. The course

evaluation is to be carried out anonymously.

Credit Overlap

The course cannot be included in a degree along with the following courses of which the content fully, or partly, corresponds to the content of this course: The course cannot be included in a degree along with the following courses of which the content fully, or partly, corresponds to the content of this course:

The course overlaps 2FE035 and 2FE070 with 100 %.

Also, the modules overlaps as follows:

Module 1 overlaps 2FE210 and 2FE055 with 6 credits each.

Module 2 overlaps 2FE211, 2FE011, 2FE078:2 and 2FE049:2 with 6 credits each.

Module 3 overlaps 2FE212 and 2FE012 with 6 credits each.

Module 4 overlaps 2FE213, 2FE216, 2FE056, 2FE078:4 and 2FE049:4 with 6 credits each.

Module 5 overlaps 2FE214 and 2FE014 with 6 credits each.

Required Reading and Additional Study Material

Module 1. Distribution Management, 6 credits

Björklund, M. *Hållbara logistiksystem*. Studentlitteratur. Latest edition. About 150 pages.

Fredholm, P. *Logistik & IT - För effektivare varuflöden*. Lund: Studentlitteratur. Latest edition. About 250 pages.

Jonsson, P. & Mattsson S-A. *Logistik*. Lund: Studentlitteratur. Latest edition. About 100 pages.

Nahmias, S. *Production and Operations Analysis*. McGraw-Hill. Latest edition. About 100 pages.

Scientific articles. About 150 pages.

Module 2. Production Management, 6 credits

Nahmias, S. & Lennon Olsen, T. *Production and Operations Analysis*. Waveland Pr Inc. Latest edition. About 800 pages.

Module 3. Logistics Quality and Process Management, 6 credits

Bergman, B. & Klefsjö, B. *Kvalitet från behov till användning*. Studentlitteratur. Latest edition. About 500 pages.

Ljungberg, A. & Larsson, E. *Processbaserad verksamhetsutveckling*. Studentlitteratur. Latest edition. About 500 pages.

Scientific articles. About 100 pages.

Module 4. Sustainable Purchasing and Negotiation, 6 credits

Monczka, R.M., Handfield, R.B., Giunpero, L.C., Patterson, J.L. & Waters, D. *Purchasing and Supply Chain Management*. Cengage Learning EMEA. Latest edition. About 530 pages.

Scientific articles as advised by the course coordinator. About 200 pages.

Module 5. Project within Business Logistics, 6 credits

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Literature is selected together with the tutor.