Linnæus University

Jnr: 2014/3069-3.1.2

Course syllabus

School of Business and Economics
Department of Management Accounting and Logistics

2FE070 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 School of Business and Economics 2014-10-29
The course syllabus is valid from autumn semester 2015

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 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 management 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 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
- 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 credits

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

- show advanced knowledge of purchasing and materials supply
- apply models for purchasing
- account for supplier evaluation and supplier development
- perform quantitative purchasing analyses
- perform business negotiations with ethical behavior, Corporate Social Responsibility (CSR) and codes of conduct
- account for central sustainability aspects
- explain how sustainability aspects affect the purchasing process and sourcing decisions

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:

- 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
- 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
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 Strategic 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, guest lectures, laboratory sessions and field visits could also be 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. Purchasing Management and Negotiation, 6 credits

Teaching consists of lectures, guest 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.
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. A minimum of five occasions for written exams will be offered in relation to the syllabus to which the student was accepted. Usually three occasions per academic year are offered. Students that fail reports can complement after instructions from 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 course/module at the latest, as well as how grades on separate elements of examination are weighed to a final course grade.

Module 1. Distribution Systems, 6 credits

The module is assessed by means of 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-wise lean production game.

Module 3. Logistics Quality and Process Management, 6 credits

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

Module 4. Strategic 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 projects are graded by continuous follow-ups and seminars.

Course Evaluation

A written course evaluation is carried out and compiled in a report, which is archived at the faculty. The results and possible measures taken are communicated by the course coordinator and presented to the students the next time the course is given, or in another way deemed suitable by the course coordinator. Other types of course evaluations, for example regular evaluations throughout the course or discussions with students, will be included and encouraged with the aim of ensuring continuous quality development.

Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: The course overlaps 2FE035 with 100 %. Also, the modules overlaps as follows:
Module 1 overlaps 2FE210 and 2FE055 with 6 credits.
Module 2 overlaps 2FE211, 2FE011, 2FE078:2 and 2FE049:2 with 6 credits.
Module 3 overlaps 2FE212 and 2FE012 with 6 credits.
Module 4 overlaps 2FE213, 2FE056, 2FE078:4 and 2FE049:4 with 6 credits.
Module 5 overlaps 2FE214 and 2FE014 with 6 credits.

Required Reading and Additional Study Material

Module 1. Distribution Management, 6 credits

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

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

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

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

Scientific articles, 150 pages.

Module 2. Production Management, 6 credits

Nahmias, S. *Production and Operations Analysis*. McGraw-Hill. Latest edition. 500 pages.

Module 3. Logistics Quality and Process Management, 6 credits

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

Ljungberg, A. & Larsson, E. *Processbaserad verksamhetsutveckling*.

Studentlitteratur. Latest edition. 500 pages.

Scientific articles. 100 pages.

Module 4. Purchasing Management and Negotiation, 6 credits

Van Weele, A. *Purchasing and Supply Chain Management: analysis, planning and practice*. International Thompson Business Press. Latest edition. 363 pages.

Scientific articles, about 150 pages.

Module 5. Project within Business Logistics, 6 credits

Literature is selected together with the tutor.