



## Course syllabus

School of Business and Economics

Department of Management Accounting and Logistics

2FE097 Bachelor course in Supply Chain Management I, 30 högskolepoäng

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### **Main field of study**

Business Administration

### **Subject Group**

Business Administration

### **Level of classification**

First Level

### **Progression**

G2F

### **Date of Ratification**

Approved 2020-06-24

Revised 2022-03-14 by School of Business and Economics. Revision of set of examination, language adjustment of objectives and content and update of standard texts.

The course syllabus is valid from autumn semester 2022

### **Prerequisites**

120 credits., of which 60 credits within Business Administration on G1N and G1F level, or the equivalent.

English 6, or the equivalent.

## Objectives

### **Module 1: Business Logistics, 7.5 credits**

After completing this module the student should be able to:

- account for logistics as an approach and the impact from logistics on company profitability, efficiency and sustainable development
- apply total cost analysis, inventory management and customer service calculations and interpreting and assessing the results
- formulate a research question, search, gather and scrutinize theory within a limited theory area together with analyzing, interpreting and presenting (written and orally) the findings

### **Module 2: Production Management, 7.5 credits**

After completing this module the student should be able to:

- explain the key production management decisions on strategic, 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, 7.5 credits**

After completing this module 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
- 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: Purchasing and Supply Chain Management, 7.5 credits**

After completing this module the student should be able to:

- discuss and contextualize knowledge of purchasing, materials supply and sustainability
- apply models for purchasing
- perform quantitative purchasing analyses
- account for the basics of supply chain management
- analyze and discuss supply chain integration

## **Content**

### ***Module 1 Business Logistics 7.5 credits***

The module contains:

- logistics as an approach and 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
- quantitative logistics models; total cost analysis, inventory management and service levels

### ***Module 2 Production Management 7.5 credits***

The module contains:

- forecasting methods; qualitative and quantitative
- material planning and production control; techniques and methods for planning and managing 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 related generic production layouts

### ***Module 3 Logistics Quality and Process Management 7.5 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 Purchasing and Supply Chain Management 7.5 credits***

The module contains:

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

## **Type of Instruction**

### **Module 1: Business Logistics, 7.5 credits**

The teaching consists of lectures.

### **Module 2: Production Management, 7.5 credits**

The teaching consist of lectures, exercises, cases, laboratory work and field visits.

### **Module 3: Logistics Quality and Process Management,7.5 credits**

The teaching consists of lectures, group assignments, tutorial meetings and seminars.

### **Module 4: Purchasing and Supply Chain Management, 7.5 credits**

The teaching consists of lectures and negotiation exercises.

## **Examination**

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

### **Module 1: Business Logistics, 7.5 credits**

The module is examined through written examination (4.5 credits), business games (1.5 credits), a group assignment including seminars (2 credits).

**Module 2: Production Management, 7.5 credits**

The module is examined through a written examination (5.5 credits) and a laboration (0,5 credits) and a group assignment (1.5 credits).

**Module 3: Logistics Quality and Process Management, 7.5 credits**

The module is examined through an written examination (3 credits) and a paper (4.5 credits).

**Module 4: Purchasing and Supply Chain Management, 7.5 credits**

The module is examined through written examination (3 credits), a written group assignment (3 credits) and a laboration (1.5 credits).

**The following applies to 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. Grading criteria for the A–F scale are communicated in writing to the student by the start of the module at the latest, as well as how the weighting and weighting of grades on individual examining elements to the final course grade takes place. The basis for the student's grade is determined by the student's fulfillment of the objectives.

The grade of the course is a combined assessment from the grades of the various course modules. The combined assessment is based on the grades and the scope of the course (number of credits). The more extensive a module is, the greater impact it will have on the final grade. Module grades with the grading scale between G-U will not be considered into the combined assessment. However, a G is required for each of the modules in order to receive a final course grade.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. An examiner can, in exceptional cases, decide that a student who is close to the level for a passing grade may carry out supplementary assignments in order to reach the passing grade.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

**Course Evaluation**

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

**Credit Overlap**

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: 2FE078:1, 2FE087:2 and 2FE087:4 with 7,5 credits each.

Module 1: 1FE195 and 1FE800 with 7.5 credits each.

Module 2: 2FE011, 2FE035:2, 2FE070:2, 2FE084:2, 2FE049:2, 2FE078:2 and 2FE211 with 6 credits each.

Module 3: 2FE012, 2FE035:3, 2FE084:3, 2FE070:3 and 2FE212 with 6 credits each.

Module 4: 2FE213, 2FE084:4, 2FE056, 2FE035:4, 2FE070:4, 2FE049:4, 2FE078:4 and

2FE216 with 6 credits each.

## Required Reading and Additional Study Material

### *List of references Module 1 - Business Logistics 7.5 credits*

#### **Required reading**

Jonsson, P. *Logistics and Supply Chain Management* McGraw-Hill. Latest edition. About 540 pages.

### *List of references Module 2 - Production Management 7.5 credits*

#### **Required reading**

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

### *List of references Module 3 - Logistics Quality and Process Management 7.5 credits*

#### **Required reading**

Bergman B. & Klefsjö, B. *Quality from customer needs to customer satisfaction*. Studentlitteratur. Latest edition. About 600 pages.

Ljungberg, A. & Klefsjö, B. *Dare! Win! Business process orientation for everyone*. Studentlitteratur. Latest edition. About 160 pages.

Scientific articles. About 300 pages.

### *List of references Module 4 - Purchasing and Supply Chain Management 7.5 credits*

#### **Required reading**

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.