



## Course syllabus

Faculty of Technology

Department of Built Environment and Energy Technology

4BT317 Industriell logistik, 7,5 högskolepoäng

Industrial Logistics, 7.5 credits

### **Main field of study**

Bioenergy Technology, Energy Technology

### **Subject Group**

Energy Technology

### **Level of classification**

Second Level

### **Progression**

A1N

### **Date of Ratification**

Approved by Faculty of Technology 2018-12-10

The course syllabus is valid from autumn semester 2019

### **Prerequisites**

English B. Basic eligibility for advancedlevel studies.

## Objectives

After completing the course the student should be able to:

- describe and reflect on logistics approach
- analyze and explain the distribution and delivery service, production, logistics, materials and production
- analyze and explain purchasing and material supply, total cost analysis and basic inventory control

## Content

The course covers the following topics:

- Logistics as an approach; definitions, concepts, history, strategy and organization
- Distribution and delivery service: delivery service elements, differentiation, distribution channels, SCM
- Materials and Production; planning environment and material planning methods
- Purchasing and material supply: importance of purchasing and different roles and strategic purchasing
- Logistical efficiency, reduction of uncertainty, lead times and capital, postponement, quality, flexibility etc.
- Quantitative logistics models: total cost analysis and inventory control
- Project work in the forest industry or bioenergy industry

## Type of Instruction

The course consists of lectures and seminars.

## 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 (i.e. received the grade F).

Written examination.

## Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

## 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: 4BT306, 7.5 credits

## Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

## Required Reading and Additional Study Material

### Required reading

Jonsson, Patrik och Mattson, Stig-Arne. *Logistik läran om effektiva materialflöden*. Studentlitteratur. 548 pages. Latest edition

or

Christopher, Martin. *Logistics and Supply Chain Management*, Latest edition. 298 pages.

Other learning materials chosen in consultation with supervisor.