



## Course syllabus

Faculty of Technology

Department of Built Environment and Energy Technology

4BT306 Industriell logistik, 15 högskolepoäng

Industrial Logistics, 15 credits

### Main field of study

Bioenergy Technology, Energy Technology, Technology

### Subject Group

Energy Technology

### Level of classification

Second Level

### Progression

A1N

### Date of Ratification

Approved by Faculty of Technology 2017-05-22

The course syllabus is valid from spring semester 2018

### 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 as well as purchasing and material supply, total cost analysis and basic inventory control
- Implement and present a project

## 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
- IT tools and systems for logistics

## Type of Instruction

The course consists of lectures, seminars and project work.

## 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).

The course is divided into two modules. Module 1, 7.5 credits is examined through written examination (6 credits) and a basic project work (1.5 credits). Module 2, 7.5 credits, examining the written and oral presentation of an advanced project.

The final grade is a weighted average of assessment methods.

## 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: 4TS404

## 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.