



Course syllabus

Faculty of Technology

Department of Built Environment and Energy Technology

4TS405 Skogsindustriell logistik, 15 högskolepoäng

Forest and Wood Industry Logistics, 15 credits

Main field of study

Forest and Wood Engineering

Subject Group

Forest Science

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved 2014-10-03

Revised 2015-12-21 by Faculty of Technology. Review of contents, objects and creditoverlap (4TS404 Forest and Wood Industry Logistics, 15 credits and 1TS022 Business Logistics, 7,5 credits).

The course syllabus is valid from autumn semester 2016

Prerequisites

Knowledge equivalent to 90 credits within the subject Forest and wood engineering of which at least 7,5 credits in logistics or equivalent.

Objectives

After completing the course the student is expected to have:

- Knowledge of the logistics approach
- Knowledge of distribution and delivery service, production logistics, material and production control, as well as purchasing and material supply.
- Applied knowledge of total cost analysis and basic inventory control
- Ability to carry out and present an advanced project work

Content

The course consists of the following elements:

- The logistics approach: definitions, concepts, history, strategy and organization
- Distribution and delivery service: delivery service elements, differentiation, distribution channels, SCM
- Material and production control: the planning environment and material planning methods
- Purchasing and material supply: the importance and different roles of purchasing and strategic purchasing
- Logistic optimization: uncertainty, reduction, lead times and capital delay etc.

- Logistic effectiveness, uncertainty reduction, lead times and capital, delay etc.
- Quantitative logistics models: total cost analysis and inventory control
- Advanced project work in a forest related industry

Type of Instruction

The course consists of lectures, workshops, an individual paper as well as a project work (in which the students work in small groups in contact with tutors).

This course has two modules of 7.5 hp each. The first module of the course consists mostly lectures, one or two study visits, a basic project work, and a written examination. Module 2 is an advanced 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 examined through written exam and written and verbal presentation of project work in a seminar.

Course Evaluation

A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed.

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: Overlaps entirely with TSD940, 4TS404 Forest and Wood Industry Logistics, 15 credits and 1TS022 Business Logistics, 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

Literature and other documents should be in alignment with the projects and will be decided in the beginning of the course.