Linnæus University

Jnr: 2022/1226-3.1.2.2

Course syllabus

Faculty of Technology
Department of Forestry and Wood Technology

1TS222 Logistik, 7,5 högskolepoäng
Logistics, 7.5 credits

Main field of study
Forest and Wood Engineering

Subject Group
Forest Science

Level of classification
First Level

Progression
G1N

Date of Ratification
Approved by Faculty of Technology 2022-03-21
The course syllabus is valid from autumn semester 2022

Prerequisites
General entry requirements for university studies.

Objectives

After completing the course, the student should be able to:

- account for logistics as an approach
- explain distribution and delivery service, production logistics, materials and production control, as well as purchasing and material supply
- apply total cost analysis and basic inventory control
- apply logistical concepts to activities in the forest industry
- account for logistical problems and suggest solutions
- account for basic logistical challenges in the forest and wood industry

Content

- 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 effectivization: uncertainty reduction, lead times and capital, delay etc.
- Quantitative logistics models: total cost analysis and inventory control
- Practical applications

Type of Instruction
The teaching includes two parts: lectures and a group project.

The course is given both on campus and at a distance. In both teaching methods, an internet-based learning platform is used for distribution of tasks and materials as well as submission of tasks. Teaching is also given in the form of individual exercises, group work and lessons at scheduled times. Some of these are adapted to distance by arranging them during special meetings and by recording or broadcasting lessons over the internet. The meetings consist of lectures and guest lectures as well as exercises and seminars that are linked to the course's examinations.

Examination
The course is assessed with the grades U, 3, 4 or 5.
Assessment of student's performance is done through two test elements. The exam elements are tasks and written exam. For the grade pass, the course objectives must be achieved, i.e. the student must have obtained approved results at all the exam elements.

- Assignments, 3.0 credits (U, G)
- Examination, 4.5 credits (U, 3, 4 or 5)

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University.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 courses of which the content fully, or partly, corresponds to the content of this course: 1TS022, 7.5 credits

Required Reading and Additional Study Material
Required reading
Jonsson, Patrik och Mattson, Stig-Arne. Logistik - läran om effektiva materialflöden. Studentlitteratur. Latest edition, 548 s.

Christopher, Martin. Logistics and Supply Chain Management, FT Publishing International. Latest edition. 298 s.

Other material is provided by the department at the start of the course.