



Course syllabus

Faculty of Technology

Department of Forestry and Wood Technology

4TS013 Materialet trä, 7,5 högskolepoäng

The wood material, 7.5 credits

Main field of study

Forest and Wood Engineering

Subject Group

Forest Science

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by Faculty of Technology 2014-10-03

The course syllabus is valid from autumn semester 2015

Prerequisites

Knowledge corresponding to English B together with a exam of 180 ECTS in a technical subject.

Objectives

The student shall be able to

- understand the north European forestry
- describe wood properties and how they are affected by handling conditions
- understand the wood mechanical processing from tree to finished consumer product

Content

The course deals mainly with hard- and softwoods from northern Europe. It includes

- The principles for north European forestry
- Identification of tree species
- Wood structure and anatomical, chemical, physical and technical properties
- Quality sorting rules
- Wood sorting
- Wood durability
- Storage of wood
- Principles for mechanical processing

Type of Instruction

The education is through lectures, laboratory work and exercises. For distance

students, a computer with Internet access is necessary.

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 examination is based on exercises as well as written and oral exam.

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: The course is overlapping Forest products, 1TS013 and Wood as an engineering material, 1TS014. 4TS003 The wood material, 7,5 hec.

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

Anon. 2010. Grundbok för skogsbrukare - Fakta om skog och skogsbruk. Skogsstyrelsen, Jönköping.

Bowyer, J.L., Shmulsky, R. & Haygreen, J.G. 2007. Forest Products & Wood Science – an introduction. Fifth edition. Blackwell Publishing Ltd, Oxford.

Handouts provided by the lecturer