Linnæus University

Jnr: 2014/1920-3.1.2

Course syllabus

Faculty of Technology
Department of Forestry and Wood Technology

1TS014 Trämateriallära, 7,5 högskolepoäng
Wood as an Engineering Material, 7.5 credits

Main field of study
Forest and Wood Engineering

Subject Group
Forest Science

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved 2010-05-17
Revised 2014-08-11 by Faculty of Technology. Change of Literature.
The course syllabus is valid from spring semester 2015

Prerequisites
General entry requirements. Forest products, 7,5 HEC and Engineering, 7,5 HEC or equivalent.

Objectives
After completing the course the student is expected to be able to know:

- Wood Structure
- Physical properties of wood and the relationship between the structure and behavior of wood in use

Content
Hardwood and softwood, growing in the Nordic region, will be the main subject in this course. The contents are:

- Structure of timber
- Movement in wood
- Moisture relationship and flow in wood
- Deformation
- Strength and failure in wood

Type of Instruction
Examination and grades are based on the level reached by the
work supplied by the student. Examination can be oral or written. The result of the project work can be presented in written

form or at project seminars.

Examination

The course is assessed with the grades U, 3, 4 or 5.
Assessment of student performance usually takes place during special examination periods and can be done through project work, laboratory work, assignments and written examinations.

In order to pass, the objectives of the course should be achieved.

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 totally with TS9141 Wood as an Engineering Material.

Required Reading and Additional Study Material

Required Reading

Dinwoodie J.M., (2002) Timber: Its nature and Behaviour, Second Edition, CRC Press, 272 pages.