Linnæus University

Jnr: 2016/6414-3.1.2.2

Course syllabus

Faculty of Technology

Department of Forestry and Wood Technology

1TS018 Trä som ingenjörsmaterial, 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 by Faculty of Technology 2016-11-22
The course syllabus is valid from spring semester 2018

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

Objectives

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

- Wood structure
- Physical properties of wood
- 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
- Wood and moisture
- Liquid and heat flow in wood
- Wood deformation
- Wood strength

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

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).

Assessment of student performance usually takes place during special examination periods and can be done through project work, laboratory work, assignments and written examinations. The final grade is a weighted average of assessed elements.

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 course/courses of which the content fully, or partly, corresponds to the content of this course:This course cannot be part of a degree in combination with another course in which the content fully or partly corresponds to the content of this course: Overlaps totally with 1TS014/TS9141 Wood as an Engineering Material.

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

Shmulsky R., Jones P.D. (2011) Forest products & wood science: An introduction. Sixth Edition. Wiley-Blackwell Publishing Ltd., West Sussex, UK. 477 pages.

Dinwoodie J.M. (2000) Timber: Its nature and behaviour. Second Edition. Taylor & Francis Group, Oxfordshire, UK. 257 pages