



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1TS013 Virkeslära, 7,5 högskolepoäng
Forest products, 7.5 credits

Main field of study

Forest and Wood Engineering

Subject Group

Forest Science

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by Organisational Committee 2009-07-24

The course syllabus is valid from spring semester 2010

Prerequisites

General entry requirements.

Expected learning outcomes

basic knowledge of

- the most common Swedish woods and be able to identify them
- the structure, chemical, physical and technical properties of fiber and wood
- timber handling and resistance
- marking for cross cutting, timber quality and timber measuring
- industrial processing and use

Content

The course comprises the following elements:

- Wood species knowledge
- The structure and anatomical properties of trees, woods and fibers
- The chemical, physical and technical properties of woods and fibers
- Timber storing, handling and resistance issues
- Timber quality grading and measuring
- Wood mechanical processing and timber uses
- Pulp and paper processes

- Board manufacturing and use

Type of Instruction

The teaching consists of lectures, laboratory work, exercises and study visits.

For the distance course computer access to the Internet is required. Distance students work with both computers and literature. In addition, some meetings are included, containing lectures, seminars and study visits.

Some elements are compulsory. The extent of these will appear from the schedule.

Examination

The course is assessed with the grades U,3,4 or 5.

The assessment of student performances takes the form of written and/or oral examination. The examination is also based on presentations of exercises and laboratory work.

Course Evaluation

When the course has finished, an evaluation is compiled. The results are reported to the students and then archived according to the rules of the school.

Required Reading and Additional Study Material

Required reading

Dinwoodie, J. M. Timber: Its Nature and behaviour, Spon Press (UK), 2000. 257 p.

Andersson, M Apterling och Virkeskänedom. Sveriges lantbruksuniversitet, SLU Info/Skog, Garpenberg, 1996, 2 uppl. 158 p.

Nylinder, Lundström & Fryk Skador och fel på tall- och grantimmer. Sveriges lantbruksuniversitet, SLU, Institutionen för skogshushållning, Uppsala, 2000. 103 p.

Presentations and material made available in connection with the teaching.