



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

4TS434 Träindustriell produktionsteknik: Sågverk, 15 högskolepoäng
Manufacturing in the wood industry: Saw milling, 15 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 Organisational Committee 2009-12-15

The course syllabus is valid from autumn semester 2010

Prerequisites
90 higher education credits in the program
Forest and Wood Engineering or Mechanical Engineering or the equivalent.

Expected learning outcomes

After this course the students will have deep knowledge in manufacturing and control of the production processes in sawmilling. This means that participants should have acquired knowledge so assessment of suitable saw mill equipment for different applications in both technologies, maintenance, quality of the sawn goods and economy. In the field of wood drying, a level of knowledge have been achieved after the course so that participants be able to contract, production and evaluation of different drying systems for use in industrial applications.

Content

The main subjects in this course are:

- Sawing and techniques for sawing
- Production of tools and properties of different tools for sawmilling
- Quality control and problem solving for sawing equipment
- The economy of sawing
- Maintenance in sawmilling
- Measuring techniques in sawmilling
- Wood drying

Type of Instruction

Lectures, laboratory experiments and exercises are parts of the teaching. Compulsory items are included and will be specified at beginning of the course.

Examination

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

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.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required reading

Williston, Ed M., *Saws – Design, selection, operation, maintenance*, 2nd ed. Miller Freeman Publications. 1990 (www.forestprod.org). 450 pages.

Esping, B., *Trätorkning 1b – Praktisk torkning*, TRÅTEK 1996. 958 pages.