SYLLABUS

Wood Technology Project 2 15 credits W7003T

Projektkurs Träteknik 2

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-02-17

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LULEÅ TEKNISKA UNIVERSITET

Wood Technology Project 2 15 credits W7003T

Projektkurs Träteknik 2

Second cycle, W7003T

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Träteknik	Wood Physics and Wood Technology

Main field of study

Wood Technology

Entry requirements

A Bachelor degree, a minimum of 180 credits, with a scientific or technical profile of at least 60 credits and includes at least 15 credits in mathematics

Selection

The selection is based on 30-285 credits

Course Aim

Provide the student with in-depth knowledge of the research subjects scientific foundations, scientific work methodology and in-depth insights regarding sustainable development, gender equality and research ethics. As well as further refinement of skills in oral as well as written presentation techniques.

After passing the course, the student should be able to show proofs of:

Knowledge and understanding:
-Demonstrate in-depth knowledge and skills in accordance with the established individual theoretical plan within the research subject wood technology

Skills and Abilities:
-To prepare a project plan
-To design an experimental design
-To apply good research ethics
-To identify the personal needs for new knowledge and design a plan how to meet the needs. A work in line with the concept of life-long learning.

Valuation and approach:
-To evaluate project goals based on the concepts for sustainable development, with a special focus on gender equality
-Reflect on and evaluate one's own work effort with regard to project planning and implementation

Contents

50% Supervisor-led practical implementation of project assignment in the research area of wood technology.

50% individual knowledge building and theory studies. Supervisor and student together identifies and defines the student's need of new knowledge in subjects related to the research area. The supervisor determines examination forms on its own.

Other course elements are: Literature search, Report writing on the form scientific article, Presentation technique with regard to stakeholders and target group, Project planning, Sustainability analysis, Research ethics. All skills must be applied in the other parts of the course

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.

The course is part of the specialization in the research area of Wood Technology that the student has already chosen, see course W7001T.

The course is problem-based. The work will be carried out either as part of an ongoing research project or as an industrial project with a clear R&D character in line with the research area of wood technology.

The course consists of two parts, theory and project, which are performed and examined individually. The project work is to be carried out individually or in groups of two students.

Theory part:

The student's individual need of knowledge is the foundation of this part.The purpose is to cover the theoretical knowledge required for the student to be able to complete the project at the same time as it will contribute to in-depth knowledge and specialization in the research subject. This requires the establishment of an individual implementation plan that defines:

- Learning objectives. The chosen theory must have a clear connection to the project's challenge and is an important part of the student's specialization in research subjects
- Implementation methodology. How the student should proceed / methodology to achieve the learning objective defined and documented
- Examination form and grading criteria stated in the implementation plan
- Schedule that describes delivery dates and times for supervisor meetings. The supervisor define suitable examination forms for literature and theory studies. The teaching takes place in the form of regular supervision based on the established plan

Project part:

The purpose is to train the student in practical research methodology where the student must show the ability to establish a project plan and carry out a project within the set time. A supervisor is providing regular guidance.

The work also includes a sustainability analysis with the aim of training the student to critically analyze the project's objectives and approach from a sustainability perspective of; gender equality, environmental impact, societal development and research ethics. For a more detailed description of the learning objective, see the course's study guide. For a good study result, it is required that you as a student take great responsibility and initiative for your own learning.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

Examination of the theory according to the established plan for knowledge building and theory studies, for a detailed description see the course's study guide. Grades: Fail/Pass

The project part is examined on following compulsory elements:

- Project plan and sustainability analysis. Grades: Fail/Pass

- Written report. Grades: Fail, 3, 4, 5

- Oral presentation. Grades: Fail/Pass

Examination can take place a maximum of three years after course registration.

Summarized grades: Fail, 3, 4, 5

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term “unauthorized aids” refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Course offered by

Department of Engineering Sciences and Mathematics

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0002	Exercise	U G#	5	Mandatory	A13	
0003	Assignment - Project	G U 3 4 5	9	Mandatory	A13	
0004	Project plan and sustainable analysis	U G#	1	Mandatory	A20	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via

My LTU.

Last revised

by Head Faculty Programme Director Niklas Lehto 2021-02-17

Syllabus established

by Mats Naesstroem 2013-02-15