FCK3103 Wood Nanotechnology 3.0 credits

Nanoteknik för trä

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FCK3103 valid from Autumn 2024

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Eligible for studies at the third-cycle level.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completion of the course the doctoral student should have the ability to:

- demonstrate for the level of the course both wide and specialized knowledge within the field of wood nanotechnology.
- in a pedagogical way present, critically evaluate, and discuss scientific results in wood nanotechnology.
- identify, discuss, and reflect upon aspects of sustainability and scientific ethics coupled to the research presented within the framework of the course.

Course contents

1. The formation of wood
2. The macroscopic and microscopic structure of wood
3. Wood biopolymers
4. Wood physical properties
5. Nanotechnologies for wood modification
6. Recent research

Examination

- LIT1 - Literature assignment, 2.0 credits, grading scale: P, F
- TEN1 - Oral exam, 1.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.