



CK102V Materials in a Circular Society - Project in Composites and Biopolymers 2.0 credits

Material i ett cirkulärt samhälle - projekt inom kompositer och biopolymerer

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 CK102V valid from Spring 2022

Decision to discontinue this course

After the course, the student will be able to:

- Apply methods and knowledge about (bio)polymers and composites in a circular economy on a real-world problem related to composites and/or biopolymers.
- Analyse, on a real-world application, opportunities and challenges for how composite materials can contribute to a sustainable society and a circular economy.
- Present the analysis orally and in written form.

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

This is an applied project-based online course about composites in a circular society. The properties, production, strengths and weaknesses of the most common polymer composites are described, both from a user's perspective and from a sustainability perspective, aiming towards a circular economy. This is an individual project course where the student chooses and analyses a real polymer-related scenario, using knowledge in circular economy and material science. Participants from outside academia are welcome to choose a topic related to their work experience

Note that this project-based online course will be given in Swedish!

Course contents

Examination

- PRO1 - Project assignment, 2.0 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.