CK106V Materials in a Circular Society - Project in Polymeric Materials 2.0 credits

Material i ett cirkulärt samhälle - projekt inom polymera material

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

Establishment

Course syllabus for CK106V valid from Autumn 2021

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

After the course, the student will be able to:

- Apply methods and knowledge about polymers in a circular economy on a real-world problem related to polymers.
- Analyse, on a real-word application, opportunities and challenges for how polymeric materials can contribute to a sustainable society and a circular economy.
- Present the analysis orally and in written form.

Course contents

This course is about plastics and other polymeric materials in a circular society. The properties, production, strengths and weaknesses of the most common polymers 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 choses and analyses a real polymer-related scenario, using knowledge in circular economy and polymer 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!

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.

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

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.