



FSG3133 Engineering for a Sustainable Society 3.0 credits

Ingenjörskap för ett hållbart samhälle

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

Establishment

Course syllabus for FSG3133 valid from Spring 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Open to all PhD-students registered at KTH

Language of instruction

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

Intended learning outcomes

The overall goal of the course is to Give a sustainable and multidisciplinary perspective to PhD students and inspire by linking science and societal challenges. The students will learn to identify relevant data to address societal challenges, tools to analyses and quantify the

challenges, methodologies for reviewing technological gaps, and to relate innovation needs with research.

Course contents

The course will cover different aspects of the sustainability challenges that humanity encounters presently. It will consist of inspiring lectures given by KTH researchers and external presenter. The lectures will highlight new aspect and different perspectives regarding the societal challenges and also present the point of view of different actors or stakeholders. The second part of the course will consist of presentations prepared by the students (in group of 4-5). Each group will do 3 presentations focusing respectively on (i) describing a societal challenge, (ii) presenting technical solutions, and (iii) identifying research needs for a sustainable society.

Examination

- PRO1 - Project work, 3.0 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.

PRO1 Project work 3,0 hp (P, F)

Other requirements for final grade

Pass will be given to students that have (i) been present att all inspirational lecture, and (ii) that have participated to the three presentations (both as active presenter and in discussions following other groups' presentations).

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.