FDM3506 ICT and Sustainability 7.5 credits

ICT och Hållbarhet

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 FDM3506 valid from Spring 2016

Grading scale

Education cycle

Third cycle

Specific prerequisites

Language of instruction

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

Intended learning outcomes

On completion of the course, the student will be able to:

Â· orientate oneself among different ideas around what constitutes sustainability and sustainable development

· elaborate on the role of ICT in relation to the aim of the society for economic, social and environmental sustainability

· reflect on the possibilities and limitations of ICT in relation to a sustainable society and its development,

· formulate how sustainability relates to his or her own thesis project.

Course contents

The course will be given as 9 seminars (every second week on Wednesdays during the autumn 2016 with some exceptions) and a last seminar in January 2017.

Each seminar will treat one subject (e g "Definitions and limitations", "Planetary borders", "Nearest adjacent research field", "First, second and third order of effects of ICT", "The ecological footprint of Internet", "Computing within Limits").

The reading for each seminar will be between 50 and 100 pages.

Each participant is expected to read the literature before each seminar and participate in the discussion actively.

Each participant will write an essay in the course.

Course literature

Primarily a collection of research articles or other relevant texts.

Examination

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.