



DM2573 Sustainability and Media Technology 7.5 credits

Hållbarhet och medieteknik

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

Establishment

Course syllabus for DM2573 valid from Spring 2019

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Computer Science and Engineering, Information Technology, Information and Communication Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

The learning outcomes of the course have been formulated by KTH Sustainability and been adapted to media technology. After having studied the course, students should:

- be familiar with basic terms and concepts of sustainability and ecology
- understand how today's development and use of media and information and communication technologies (ICT) have both positive and negative effects on sustainability

in order to:

- have sufficient knowledge to reasons around and also be able to apply said knowledge about how media and ICT can be used to contribute to a sustainable society in their future occupation.

Course contents

The basic structure of the course consists of approximately two lectures and a seminar each week.

The course consists of ten parts and will beyond an introduction and summary/wrap-up cover eight topics (eight parts):

- 1) Introduction
- 2) Sustainability 101 (basic concepts)
- 3) Technology, society and sustainability from a historical perspective
- 4) Environmental psychology and behavior
- 5) (Direct) negative impacts of ICT and media
- 6) (Selected) positive effects of ICT use
- 7) ICT and social sustainability
- 8) Rebound effects
- 9) Images of the future
- 10) Summary/wrap-up

Course literature

Will be announced at least 4 weeks before course start at course web page.

Examination

- ÖVR1 - Other Task, 2.5 credits, grading scale: P, F

- TEN1 - Examination, 5.0 credits, grading scale: A, B, C, D, E, FX, 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.