DM2720 Sustainable ICT in Practice 7.5 credits

Hållbar IKT i praktiken

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

Establishment

Course syllabus for DM2720 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

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 students should be able to:

- orientate oneself among concrete analytical tools and theories that the industry and other organisations request of the sustainable ICT/Media engineer.

- have general understanding of how one can apply chosen tools in the industry and other organisations

- critically value/evaluate projects in terms of ecological, social and economic sustainability

- be able to relate these practical knowledge to knowledge and the research area within ICT and sustainability.

Course contents

- Sustainable human computer interaction (S-HCI)
- Sustainable interaction design
- ICT for sustainable development (ICT4S)
- Sustainable Media production
- Service Design
- Life-cycle analysis (LCA)
- Thinking in system term (and modelling)
- Environmental psychology
- How one communicates sustainability

Course literature

The course material is set up on the course web

Examination

- INL1 - Assignment, 7.5 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.

Compulsory attendance occurs in the course.

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.