DM2720 Sustainable Information and Communication Technology (ICT) in Practice 7.5 credits

Hållbar Informations- och kommunikationsteknik (IKT) i praktiken

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

Establishment

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from spring term 2020 (registration number J-2019-2183).

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Completed course in sustainable development equivalent to DM2573/AG1814/AG1815.

Language of instruction

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

Intended learning outcomes

After passing the course, students should be able to:

- orient themselves among the concrete analytical tools and theories that the industry and other organisations request from the sustainable ICT/Media engineer.
- explain at a general level how one can apply selected tools in the industry and other organisations
- describe how data and media technology related organisations work with sustainability issues today
- critically value/evaluate projects in terms of ecological, social and economic sustainability
- relate this practical knowledge to the knowledge and research frontier 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)
- Systems thinking (and modelling)
- Environmental psychology
- How one communicates sustainability

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.

There is compulsory attendance 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.