FDM3002 Haptics, Tactile and Tangible Interaction 5.0 credits

Haptisk och taktil interaktionsteknik

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

Establishment

Course syllabus for FDM3002 valid from Spring 2024

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

PhD student

Language of instruction

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

Intended learning outcomes

Account for how the tactile sense functions both regarding perception and cognition
Explain how physical manipulation with and without haptic feedback can give an added value in different interactive application fields

Use the specific guidelines that should be followed at design of systems that build on haptic, tactile and physically manipulatable interface

Program simple applications based on haptic and physically manipulatable interactive technology
Use methods in HCI to evaluate haptic, tactual and tangible interaction
Reflect on how multisensory interfaces can increase social sustainability

Course contents

Seminars
Laboratory sessions
Project

Examination

- EXA1 - Written essay, 5.0 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.

Written essay

Other requirements for final grade

Approval of written essay

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.