



FMF3027 Systems Thinking and its Application in Embedded Systems 7.5 credits

Systemtänkande för inbyggda system

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

Establishment

Course syllabus for FMF3027 valid from Spring 2023.

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Admitted to Phd studies

Language of instruction

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

Intended learning outcomes

After completed course, students are:
expected to explain, motivate and master the knowledge area in the interface between systems thinking and embedded systems. Specifically in the area of complex dynamic systems, with a focus on mechatronics and embedded systems.

- be able to explain and discuss current theories within the area
- be aware of, and have an understanding of, common models and modelling tools for systems thinking in embedded systems
- be familiar with the current scientific discussion within the area

Course contents

The course is based on current scientific literature within the area

Examination

- INL1 - Assignment, 7.5 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.

Other requirements for final grade

Implementation of seminars

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.