II2211 Research Methodology and Scientific Writing for Embedded Systems 7.5 credits

Forskningsmetodik och vetenskapligt språk för inbyggda system

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

Establishment

The official course syllabus is valid from the spring semester 2026 according to the decision by director of first and second cycle education: HS-2026-0159. Date of decision: 2026-01-19

Grading scale

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

Education cycle

Second cycle

Main field of study

Electrical Engineering, Computer Science and Engineering

Specific prerequisites

Intended learning outcomes

After passing the course, the student should be able to

- use research methodology and scientific writing to formulate a scientific report or research article in the area of embedded systems
- identify, explain and evaluate the societal and ethical aspects of the research project and how the project contributes toward the UN sustainable development goals
- present research results and comment on the strength and the weakness of other projects' presentations
- read and evaluate scientific articles related to embedded systems and write constructive comments and give feedback to other project reports
- reflect on equality and equal opportunities in a project work
- suggest research projects related to embedded systems that are scientifically valuable and feasible to carry out within the given time and resources

in order to gain sufficient knowledge of the underlying theories, insights, and practical skills required to perform a typical research project and write a scientific report in the field of embedded systems.

Course contents

- Research methodology
- Scientific writing
- Sustainable development:
- Research ethics
- Equality

Examination

- ANN1 - Hand-in assignment and Seminars, 2.5 credits, grading scale: P, F
- ANN2 - Project assignments and Seminars, 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.