



# IS2206 Research Methods in Computer Systems Engineering 7.5 credits

Forskningsmetoder för datorsystemteknik

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

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for IS2206 valid from Autumn 2008

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

## Language of instruction

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

## Intended learning outcomes

The student will after this course be able to:

- **Describe** what constitutes a successful research study
- **Know about** the most important publication fora for research papers in computer systems engineering
- **Search** for related research in publication databases, search engines and patent databases
- **Identify** weaknesses and strengths in recent research articles in the subject
- **Generalize** results from a research paper to related research problems
- **Formulate** research problems based on a previous study
- **Formulate** a hypothesis given a research problem
- **Plan** experiment needed to support a hypothesis
- **Carry** out a literature study within the field of a research problem

## Course contents

- Studies and oral presentation of a recent research paper with in the area of computer systems or computer architecture.
- What is good research and suitable research problems.
- Subject specific information search methods.
- Research ethics.
- Project with planning of a research study based on a previously studied research paper.

## Specific prerequisites

## Course literature

**Research papers and other publicly available material.**

## Equipment

Individual portable computer is needed to follow the course properly.

## Examination

- GRA1 - Peer Review, 0.8 credits, grading scale: A, B, C, D, E, FX, F
- NÄR1 - 75% Presence, 0.7 credits, grading scale: P, F
- PRO1 - Planning, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- SEM1 - Presentation, 1.5 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.

## **Other requirements for final grade**

75 % active presence on lectures- oral presentation of recent research paper- oral and written presentation of research plan- peer review of research plan

## **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.