



II2202 Research Methodology and Scientific Writing 7.5 credits

Forskningsmetodik och vetenskapligt skrivande

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

Establishment

Course syllabus for II2202 valid from Autumn 2008

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering, Information and Communication Technology, Electrical Engineering

Specific prerequisites

Good knowledge of English and basic knowledge of data communication.

Language of instruction

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

Intended learning outcomes

The aim of the course is to give the students the theoretical and practical skills to conduct, analyze and present in written an experimental task in the area of data communication and to give insight and understanding of research methodology.

This means that, after the course, students will be able to:

- * explain and apply techniques for scientific writing and research methodology to prepare the writing of a scientific report.
- * perform experimental measurements, explain and take position to the results as well as list and summarize related work.
- * apply the knowledge in scientific writing and research methodology and use the knowledge to write a scientific report.

Course contents

The course is divided into three parts where the parts are integrated in a final project. The three parts are:

- * report writing
- * research methodology
- * experimental assignment

Course literature

The course material will mainly consist of articles available over the Internet.

Examination

- INL1 - Scientific Writing, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Research Methodology, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Assignment, 1.5 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

The course is divided into three parts, and to receive a final grade "pass" all three parts must be approved:

- * scientific writing (A-F): mandatory participation in lectures and submission of an approved written report

- * research methodology (Pass/Fail): mandatory participation in lectures and approved home assignments

- * experimental assignment (Pass/Fail): mandatory participation

A higher degree than "pass" is determined by the quality of the written report. A higher degree requires high quality on report structure, research methodology, summary technique, handling of references, description of experiment, and analysis of experimental measurement data.

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.