



IL2231 Research Methodology and Scientific Writing for Nanotechnology 7.5 credits

Forskningsmetodik och vetenskapligt språk för nanoteknik

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

Establishment

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from the autumn semester 2020 (registration number J-2019-2095).

Grading scale

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

Education cycle

Second cycle

Main field of study

Electrical Engineering

Specific prerequisites

Language of instruction

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

Intended learning outcomes

Having passed the course, the student shall be able to

- propose feasible and sustainable research projects related to nanotechnology
- identify the novelty and significance of a research project
- make feasible, time- and resource-efficient plan to carry out a research project
- apply research methodology and scientific writing techniques to formulate a scientific report
- summarise and present research results to the general public
- review and evaluate nanotechnology-related scientific reports and publications, and provide critical comments
- realize nanotechnology-related sustainable development goals of United Nations
- identify, explain and evaluate the social and ethical aspects and the sustainability in nanotechnology-related research projects

in order to obtain knowledge of underlying theories, understanding and practical proficiencies that are required to carry out typical research assignments in the area of nanotechnology.

Course contents

Research methodology, scientific writing, sustainable development, research ethics.

Examination

- PRO1 - Project assignments, 6.0 credits, grading scale: A, B, C, D, E, FX, F
- SEM1 - Seminars, 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

It is necessary to participate in all seminars and at least 80% of the lectures.

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.