KE2920 Project in Chemical Engineering 30.0 credits

Projekt i kemiteknik

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

Establishment

Course syllabus for KE2920 valid from Spring 2025

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Chemical Science and Engineering, Chemistry and Chemical Engineering

Specific prerequisites

At least 50 credits in chemistry and/or chemical engineering, or a related subject.

The examiner will determine if the specific prerequisites are sufficient and is responsible for ensuring that the student has sufficient in-depth knowledge of the subject for the chosen task, and must certify that the implementation of the proposed project work is also likely to lead to the student developing the skills and abilities specified in the intended learning outcomes.

The program director will assess and approve the proposed project. The examiner presents a brief description of the project on the application form.

Language of instruction

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

Intended learning outcomes

Upon completing the course, the student should be able to:

- apply knowledge and skills in chemistry and chemical engineering acquired in previous studies
- analyze a specific research task or qualified problem statement
- gather the necessary information for the formulation of the research problem and plan how the task can be solved within given frameworks with adequate methods
- carry out experimental and/or theoretical treatment of the task, search for information in the scientific literature, and correctly use and refer to source material
- discuss and present their work orally
- document, analyze and discuss their results in a written report of good quality

Course contents

The course is designed as an individual project work equivalent to 20 weeks of full-time job. A current problem or research project in chemistry and/or chemical engineering is formulated and analyzed in conjunction with the involved teacher(s). The task can be of theoretical and/or experimental nature.

In general, the project begins with studies of the project's background and with a literature review. The work task is then planned and, where applicable, a project plan is formulated for the experimental work. The work ends with the project's background, goals and method(s) being described and the results are analyzed, discussed and documented in a written report of good quality and presented orally.

Examination

- PRO1 - Project, 30.0 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.

The written report should preferably be written in English.

Other requirements for final grade

- Approved planning report/project plan
- Approved written report
- Approved oral presentation

The examiner should check the written report with tools for plagiarism before it can be approved.

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.