

**SYLLABUS**

# **Senior Design Project in Chemical Technology 7.5 credits T7006K**

**Projektkurs i Kemisk teknologi**

**Course syllabus admitted: Autumn 2023 Sp 1 - Present**

**DECISION DATE  
2022-02-11**

# Senior Design Project in Chemical Technology 7.5 credits T7006K

## Projektkurs i Kemisk teknologi

### Second cycle, T7006K

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Kemisk teknologi	Chemical Engineering

### Main field of study

Chemical Engineering

## Entry requirements

At least 90 credits in Chemical Engineering. Good knowledge in English, equivalent to English B/6. For exchange students, the examiner makes an individual examination of the qualification depending on the type of project.

## Selection

The selection is based on 30-285 credits

## Course Aim

The overall goal of the project course is that the student should be able to deal with important scientific issues in chemical separation engineering and catalysis areas.

On completion of the course, the student should be able to:

- Formulate a relevant problem for investigation within the subject area.
- Plan a project work in an efficient way.
- Design and carry out a project within the subject.
- Solve problems independently in the project
- Evaluate the results using the theoretical knowledge they learned.
- Write a scientific report, give an oral presentation and defend the conclusions.

## Contents

The project theme shall be chosen in cooperation with the examiner and be related to modern research and development.

Some advanced characterisation instruments, like SEM, BET and separation equipment or catalytic setup will be used.

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The student will work independently with guidance.

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Written report and oral presentation.

In the report and presentation, the student should show the ability to:

- Collect critical information relevant to the problem formulated.
- Describe the project in a scientific manner including the project plan, design and implementation of the project as well as the results and conclusions.
- Use the theoretical knowledge they learned to discuss the results obtained.
- Give an oral presentation to present their own work.

## Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

## Transition terms

2500

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Passed oral and written presentation	G U 3 4 5	7.5	Mandatory	A07	Yes

## Last revised

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2022-02-11

## Syllabus established

Course plan approved by the Department of Chemical Engineering and Geosciences 2007-05-28.