# Project in Chemical Analysis Engineering

Programme course

6 credits

Projekt i kemisk analysteknik

TFKI19

Valid from: 2017 Spring semester

**Determined by**
Board of Studies for Chemistry, Biology and Biotechnology

**Date determined**
2017-01-25

**Offered for the last time**
Autumn semester 2023

**Replaced by**
NKEC78

## Main field of study
Chemical Engineering

## Course level
First cycle

## Advancement level
G2X

## Course offered for
- Chemical Analysis Engineering, B Sc in Engineering

## Entry requirements
Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

## Prerequisites
Compulsory courses from the first and second year of the programme.

## Intended learning outcomes
The course is designed to give students further experience to an engineer's approach to analyze a task, solving problems, organizing the required activities to complete the task and working in groups. This is a practical course in which students work in groups, in a simulated working environment to complete an assigned task. The course will end with written and oral presentations of the groups' accomplishments. By the end of the course, students will be able to:

- plan a project after receiving a problem statement and to generate project
- prepare a proper timetable (Gannt chart)in order to meet the requirements of a project
- collaborate with the members of a project group
- take initiative and find creative solutions to problem
- make oral and written presentations of project work in English.

## Course content
The project work is performed in groups of 4-6 students and is organized in two parts. First, a project plan is worked out for the project which includes project activities inserted in a timetable (Gannt chart). The second part involves planning and implementation of experiments as well as evaluation of data and documentation of results. During the project the students should work independently, although a supervisor is available as a discussion partner to support the project. The project work should be continuously documented and at the end of the course the results should be presented by an oral presentation and a written report. Both the presentation and the report must be approved by the examiner/supervisor.

## Teaching and working methods
Project work. The course ends with a presentation of the projects in a seminar.

## Examination
| | | | |
|---|---|---|---|
| PRA1 | Project, oral and written presentation | 6 credits | U, G |

Grades are given as ’Fail’ or ’Pass’.

## Grades
Two-grade scale, U, G

## Department
Institutionen för fysik, kemi och biologi

## Director of Studies or equivalent
Magdalena Svensson

## Examiner
Johan Dahlén

## Education components
Preliminary scheduled hours: 59 h
Recommended self-study hours: 101 h

## Course literature
Utdelat material från institutionen (IFM).

# Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.