

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

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 (Gantt 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 (Gantt 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://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.