



Faculty of Health, Science and Technology
Chemical Engineering

Syllabus

Project in process engineering

Course Code:	CKGB56
Course Title:	Project in process engineering <i>Processtekniskt projekt</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

Major Field of Study:
KTA (Chemical Engineering)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2016-09-05, and is valid from the Spring semester 2017 at Karlstad University.

Prerequisites

Completed 120 ECTS cr. of a Master of Science Engineering Programme, including Introduction to Chemical Process Technology 7.5 ECTS cr, or equivalent.

Learning Outcomes

The aim of the course is that the students acquire broad knowledge in the area of project management that is relevant to projects commonly occurring in chemical engineering. Students also apply the knowledge acquired in a process engineering project.

Upon completion of the course, students should be able to:

- describe basic concepts and models in project management,
- describe the life cycle of a project,
- formulate realistic and evaluable project goals,
- use a method to structure and plan the time of a project,
- apply this method for an overview of the whole project in a specific project assignment, contribute to dividing it into manageable sub tasks that are processed and linked into a whole,
- evaluate the suggested technical solutions in terms of their contribution to sustainable development,
- document a completed process engineering project in a technical report,
- orally present to and discuss important project results with a target group consisting of representatives of a fictive project commissioner.

Content

Instruction is in the form of lectures and supervision. The course comprises the following components: Project management: Project goal and the typical life cycle of a project. The project environment and

stakeholders. Project planning. Engineering project linked to sustainable development: Formulating a project plan, including the use of resources based on the project owners directives. Completion of project in accordance with the plan. Progress reports, including actual resource use in relation to the project plan. Final project presentation.

Reading List

See separate document.

Examination

Assessment is based on individual hand-in assignments in basic project management, on the project group's written reports (project plan, progress reports and final report), and on an individual presentation of the completed project assignment.

Grades

One of the grades Fail, 3 (Pass), 4 (Some Distinction), or 5 (Distinction) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.

The course CKGB56 cannot be included in the same degree programme as CKGB4B.