



Faculty of Health, Science and Technology  
Chemical Engineering

# Syllabus

## Project in process engineering

<b>Course Code:</b>	CKGB56
<b>Course Title:</b>	Project in process engineering <i>Processtekniskt projekt</i>
<b>Credits:</b>	7.5
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	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 2020-09-01, and is valid from the Spring semester 2021 at Karlstad University.

### Prerequisites

120 ECTS credits completed in a Master of Science Engineering programme, including Chemical Engineering 7.5 ECTS credits, or equivalent

### Learning Outcomes

The aim of the course is for students to acquire basic knowledge in the area of project management relevant for projects commonly connected to the professional role of engineers. 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 a project, including a time plan,
- apply this method to an overview of the whole project in a specific project assignment, and contribute to dividing it into manageable smaller tasks that are processed and integrated into the project as 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, and
- orally present 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 goals 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 the 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 on basic project management, on the written reports of the project group (project plan, progress reports, and final report), and on an individual oral presentation of the completed project assignment.

If students have a decision from Karlstad University entitling them to special pedagogical support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

## **Grades**

One of the grades U (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.

