# Computer Engineering - Bachelor Project

Programme course

18 credits

Kandidatprojekt datateknik

TDDD83

Valid from:

**Determined by**
Board of Studies for Industrial Engineering and Logistics

**Date determined**

## Main field of study
Computer Science and Engineering, Engineering

## Course level
First cycle

## Advancement level
G2X

## Course offered for
- Industrial Engineering and Management - International, M Sc in Engineering
- Industrial Engineering and Management, M 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
For admission to the course, see the LiTH's general framework for the candidate's work in the Master of Science Program in the student handbook.

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.

# Intended learning outcomes

**Subject knowledge**, the student shall be able to:

- systematically integrate knowledge acquired during their studies, mainly in software development and industrial economics
- apply methodological knowledge and subject-specific knowledge in computer science.
- assimilate the contents of the relevant literature and to relate their work to it

**Individual and professional skills**
The student is expected to demonstrate the ability to:

- formulate problems by developing requirements to meet the customer and market's real needs and define a project within the given timeframe
- seek and evaluate scientific literature

**Working in groups and communication**
The student is expected to demonstrate the ability to:

- plan, implement and report on an independent study by a project team of about 6 people takes on a programming task (plan, implement and report on an independent project in the form of a project in a group)
- professional express themselves orally and in writing
- critically examine and discuss in writing and orally presented work

**CDIO professionalism**
The student is expected to:

- create, analyze and/or evaluate technical solutions
- make judgments with respect to relevant scientific, social and ethical aspects

# Course content

Software Engineering, Object-oriented analysis, web programming, entrepreneurship, writing and oral presentation.

# Teaching and working methods

The course consists of an independent work. Student teams selected by lot. For each group of students a tutor and examiner is appointed. Students develop product proposals which they then develop in the candidate work. Product proposals shall include a web-based business software. The project is done in groups, after course responsible guidelines. Work is conducted both individually and in groups with supervision. Each group presents their work from different perspectives in a series of seminars, where other groups serving as discussants. Every student must have completed at least one presentation element and an opposition task.

The course runs throughout the spring semester.

## Examination

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| UPG3 | Opposition and attendance at seminars | 0.5 credits | U, G |
| PRA2 | Project assignment with written report and oral presentation | 17.5 credits | U, G |

The seminars are mandatory and students must attend all four seminars.
Grades are given as 'Fail' or 'Pass'.

## Grades

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## Department

Institutionen för datavetenskap

## Director of Studies or equivalent

Ahmed Rezine

## Examiner

Aseel Berglund

## Course website and other links

https://www.ida.liu.se/~TDDD83/

## Education components

Preliminary scheduled hours: 0 h
Recommended self-study hours: 480 h

## Course literature

Bestäms både gruppvis och individuellt för varje student i samråd med examinator och handledare. Studenterna har själva ett ansvar att hitta lämpliga referenser till kandidatrapporten.