# Internship

## Programme course

## 18 credits

## Praktik

## TDDD62

## Valid from:

**Determined by**

**Date determined**

## Main field of study

Information Technology, Computer Science and Engineering

## Course level

Second cycle

## Advancement level

A1X

## Course offered for

- Computer Science and Engineering, M Sc in Engineering
- Information Technology, M Sc in Engineering
- Computer Science and Software Engineering, M Sc in Engineering

## Specific information

This course is only for the LiU-students of the double degree program with Harbin Institute of Technology.

## Prerequisites

Earlier academic studies relevant for the project corresponding to at least 180 ECTS credits (three years) with at least 40 credit points on advancement level G2/A.

# Intended learning outcomes

The goal of the internship project is that the student shall be familiar with the work environment relevant for the educational program and be able to serve as co-workers and / or leader of a group.

The student will also gain practical experience in computer science / information technology or information technology such as development, test, operation and maintenance, and experience of collaboration in the workplace. Furthermore, the internship should increase student's ability to take personal responsibility for their learning process.

After the course the studen should:

- be able to describe the requirements of professional employees of modern businesses / organizations
- be able to account for the business conditions in the company / organization.
- be able to account for the multi-faceted role of today's professional engineers.
- be able to use and apply scientific methods in qualitative reporting of aggregated and analyzed experiences.
- be able to identify the skills and knowledge from prior academic training that students apply in practical work.
- be able to make a plan for what skills and knowledge students need to acquire in the continued academic education.

# Course content

The internship location is chosen by the student in a field related to software technology. The content of the internship project should be relevant and of technical / scientific nature and pre-defined. To pass the course, students must spend at least a total of 8 weeks continuous full-time at work and then write an internship report for the training plan reported assignments. The supervisor at the workplace should when the project is finished validate presence and active participation by the student in a supervisory report in accordance with established template.

Students learn to use and apply scientific qualitative methods in computer science / information technology in the writing of the final report.

# Teaching and working methods

The course is conducted as an individual internship in an external organization. Within the organization, students must participate in a project or task force. The student will find its own specific organization for the internship. Before the course begins, the examiner approve a placement plan formulated in accordance with established template and signed by both the supervisor at the organization and the student. The workplace, where most of the course is located, shall provide a named supervisor for the entire period.

In preparation for the internship the students study the selected reference literature in qualitative research, as discussed at a coaching opportunity at the beginning of the course. Students choose a survey method to be used in conjunction with the proposed internship to develop materials to practice the report, see below. The method and the link to the internship project case is presented in a seminar where the examiner may propose amendments.

The project assignment shall be documented in a written internship report. The content must be easily accessible and the quality of the written request should be good. There should be a background and an issue in a professional context. This discussion should be detailed and show the received insights of the role and the results of the study concluded. The report shall include a good source management, reporting of research methodology, a brief summary of results as well as a frame of reference.

# Examination

| UPG1 | Project assignment and report | 18 credits | U, G |
|------|-------------------------------|------------|------|

Grades are given as 'Fail' or 'Pass'.

# Grades

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# Department

Institutionen för datavetenskap

# Director of Studies or equivalent

Jalal Maleki

# Examiner

Vivianne Vimarlund

# Education components

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

# Course literature

Yin, R.K. (2009). Case Study Research: Design and Methods. th edition. Sage
Publications, Thosand Oaks, California. ISBN 978-1-4129-6099-1
Mall för praktikplan (tillhandahålls av kursledningen)