# HI1028 Software Development, Project Course 9.0 credits

## Projektkurs inom programvaruutveckling

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for HI1028 valid from Autumn 2015

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

For admission the student must have passed the courses in Object Oriented Programming, Databases, Operating Systems and Computer Engineering and Internet Technology, Project Course.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

# Intended learning outcomes

This course will train the student to develop large software systems working in engineering projects.

The project will give basic understanding and training in methods and tools used in software development.

After completion of the course the student should:

- be able to analyze and manage requirements on a software system
- have knowledge of the development process of a large software system, with regard to reusability, maintenance and extensions
- be able to analyze and design a large software system
- be able to implement and test a large software system
- have knowledge of documentation (implementation as well as user perspective)
- have deeper knowledge of project methods

# Course contents

- Requirements management including functional and non-functional requirements
- Analysis and system specification
- Methods for project management
- Design and implementation rules for reusability, maintenance and extensions
- Testing and program validation methods
- Documentation. Installation support and manual
- Version handling
- Juridical aspects of software development

# Course literature

Agil projektledning, andra upplagan av Tomas Gustavsson, Sanoma utbildning,

ISBN 9789152323540. Boken finns även som e-bok.

Eventuella ändringar meddelas senast 4 veckor innan kursstart.

# Examination

- PRO1 - Project, 7.0 credits, grading scale: A, B, C, D, E, FX, F
- RED1 - Account, 2.0 credits, grading scale: P, F

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Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Passed project work (PRO1; 7.0 cr.), credit rate A-F and passed accounts (RED1 2.0 cs.), credit rate P/F.

# Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.