IV1350 Object Oriented Design 7.5 credits

Objektorienterad design

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

Establishment

The official course syllabus is valid from the spring semester 2027 as decided by the director of first and second cycle education. Decision date: 2026-10-21

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Knowledge and skills in programming, 7.5 credits, equivalent to completed course ID1022/ID1018.

Active participation in ID1022 during the second study period of the same academic year is considered equivalent to completed course. Registered students are expected and are considered to be actively participating.

Intended learning outcomes

After passing the course, the student shall be able to

- develop an object-oriented programme by applying established guidelines for object-oriented architecture, design and programming
- discuss the quality of a programme and then refer to established guidelines for object-oriented architecture, design and programming
- interpret and clarify a given specification by applying established guidelines for analysis.

Course contents

Examples of fields that are treated:

- Object-oriented design and design pattern
- Architecture and architectural patterns
- Guidelines for object-oriented programming for example refactoring and unit testing
- UML (Unified Modeling Language)
- Object-oriented analysis

Examination

- INL1 - Hand in exercises, 7.5 credits, grading scale: A, B, C, D, E, FX, F

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.

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

Transitional regulations

A student who passed the course component TEN1 or LABA is examined in the second course component as applied when the course component was passed. Students who are neither approved on TEN1 nor LABA must only be examined on the course component INL1.

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.