



# IV1201 Design of Global Applications 7.5 credits

Arkitektur och design av globala applikationer

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 IV1201 valid from Spring 2023.

## 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, corresponding to completed course ID1018.
- Knowledge in object oriented design 7,5 credits, corresponding to completed course IV1350.
- Knowledge in interaction programming and the dynamic web, corresponding to completed course DH2642.

# Language of instruction

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

# Intended learning outcomes

After passing the course, the student shall be able to

- develop Internet-based applications considering design principles non-functional requirements and proven engineering experience
- explain and evaluate an application with regard to design principles non-functional requirements and proven engineering experience
- alone solve complex problems with respect to software development

in order to, based on a given specification, be able to retrieve architecture and design for an Internet-based system and implement this in code of production quality.

# Course contents

This is a practical course, with a focus on how to implement a good architecture in code. The course covers non-functional requirements and their solutions in Internet-based systems.

Examples of fields that are treated:

- design and architecture
- security
- transactions
- persistence
- error handling
- testing
- working methods and tools.
- operation

# Examination

- INL1 - Written assignment, 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.

# 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.