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.

Establishment

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from the spring semester 2020 (registration number J-2019-0555).

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

- ID1018 Programming I, 7.5 credits, or the equivalent.
- IV1350 Object-oriented design, 7.5 credits, or the equivalent.

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.

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

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.