



ID1212 Network Programming

7.5 credits

Nätverksprogrammering

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

Establishment

Course syllabus for ID1212 valid from Autumn 2019

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

- ID1018 Programming I or an equivalent course.
- IV1350 Object-oriented design or equivalent knowledge.
- ID1354 Applications for internet, basic course or the equivalent knowledge.

Language of instruction

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

Intended learning outcomes

After a pass mark on course, the student should be able to develop distributed applications that communicate with different communication paradigms and then use appropriate design and architecture.

Course contents

Basic concepts for distributed applications, for example

- Distributed applications that communicate over sockets.
- Distributed applications that communicate over RMI and message queues.
- Web applications and application servers.
- Framework, design and handling of threads for above-mentioned applications.

Course literature

The course is not based on any particular prescribed book. Some recommended books are shown below

- Elliotte Rusty Harold. Java Network Programming, 4th Edition. O'Reilly & Ass., Inc. October 2013.
- Jan Graba. An Introduction to Network Programming with Java, 3rd Edition. Springer, 2013.

Examination

- INL1 - Assignments, 4.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

In agreement with KTH's coordinator for disabilities, it is the examiner who decides to adapt the examination for students in possession of a valid medical certificate. The examiner may permit other examination forms at the re-examination of few 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.