DD1310 Programming Techniques 6.0 credits

Programmeringsteknik

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

Establishment

Course syllabus for DD1310 valid from Autumn 2009

Grading scale

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

Education cycle

First cycle

Main field of study

Information Technology, Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

The goal of the course is to give the students

- computer practice, ability to write well structured programs, and knowledge of fundamental computer concepts,
- practice in solving construction problems and in working in small groups as well as individually

so that they will

- consider computers and programming to be natural tools in the engineering work
- see the similarities between program construction and other types of construction work, and
- be able to do some programming.

Course contents

Fundamental computer concepts.

Programming in a modern programming language (Python). Data structures. Simple graphics. Problem solving by dividing the problem into sub-problems. Program structuring. Several small programming exercises and one larger, individual programming exercise with emphasis on structuring and specification of the modules being used.

Course literature

Kurslitteratur meddelas senast 4 veckor före kursstart på kursens hemsida.

Examination

- LAB3 - Laboratory Task, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB2 - Laboratory Task, 1.5 credits, grading scale: P, F
- LAB1 - Laboratory Task, 1.5 credits, grading scale: P, 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 this course all the regulations of the code of honor at the School of Computer science and Communication apply, see: http://www.kth.se/csc/student/hederskodex/1.17237?l=en_UK.

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.