II0310 Introduction to Computer Studies 1.5 credits

Introduktionskurs i datateknik

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 II0310 valid from Autumn 2015

Grading scale

P, F

Education cycle

Pre-university level

Specific prerequisites

General entry requirements and Mathematics D, Physics B and Chemistry A.

Language of instruction

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

Intended learning outcomes

The general the aim of this course is to give new students enough skills and understanding to use the computational environment and information systems of the educational institution and to give the students preparatory knowledge and understanding of programming.

After the course, the participants should be able to:

- connect to the school computer network with their own portable computer, smartphone or pad, and to access the Internet.
- via the Internet find schedules, course information (the students'guide and course home-pages) and information from the director of studies, the programme co-ordinator, and the students' union, rules/obligations, ITservice/support, forms, department pages, etc.
- log in to, and be familiar with, KTH's support systems for education administration and teaching such as Bilda, My pages, KTH Social, Daisy, UserDB, the library, and the students' guide.
- administrate their user account at KTH, read and configure their e-mail, save files, and know where to publish own material in one's public portfolio on KTH Social.
- download and install software from the KTH software libraries, Microsoft, and other sources.
- protect their computer against viruses, intrusions etc, and understand the importance of "upgrading" but also the problems this can imply.
- use basic word processing at report writing and documentation, and create PDF-documents and be familiar with common file types.
- print on the school printers and know how much that can be printed.
- use, during their education, available networks and connect through a computer in a general computer lab to their personal account and make file transfers.
- log in on the Windows computers and UNIX system of the school.
- have insight into a simpler form of programming; basic terms, concepts, and procedures.
- as examples of a laboratory assignment and submission, understand code and make changes in a simple C-program.

Course contents

See the aims of the course.

Disposition

The course contains the following activities:

- three lectures, each at 2 x 45 min.
- one compulsory laboratory session (editing of computer programs for a Lego robot) with the requirement of a submitted report.
- supervised sessions (optional).
- compulsory "Quiz" (questionnaires on the web).

• own work.

Course literature

No specific literature is stated. Next to all information is available on the Internet. Consult with the teacher if you are considering to buy some book.

Examination

• RED1 - Report, 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.

Examination in course part "passed presentation (RED1: 1.5 credits)". Grades that are given on this part and the whole course are: Passed (P), failed (F) and failed but supplementary qualification possible (Fx). For a pass mark on course/grades it is required to submit a report before the stated last date, which is at the end of september. Verify this with your teacher. It is not possible to hand in the report later than this date and obtain a passing course grade. The report is handed in via the course platform "Bilda".

For the final grade, a passed result is also required on the course's so-called "Quiz" (questionnaires that are filled in via the web). This must also be answered within the allotted time and can not be supplemented after the course has ended.

Students who does not complete the course within the nominal duration of the course will be unregistered from the course (it is therefore not possible to complete this course at some later occasion which is otherwise common for other courses).

Other requirements for final grade

• RED1- Presentation, 1.5, grading scale: P, F

• A submitted and passed report.

• a passed "Quiz".

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.