Syllabus

for course at advanced level

Computer Science, Degree Project	**30.0 Higher Education**
Datalogi, självständigt arbete	**Credits**
	30.0 ECTS credits

Course code:	DA9001
Valid from:	Autumn 2008
Date of approval:	2007-08-28
Department	Department of Mathematics (incl. Math. Statistics)
Subject	Informatics/Computer and Systems Sciences
Specialisation:	AXX - Second cycle, in-depth level of the course cannot be classified

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University August 28, 2007.

Prerequisites and special admittance requirements

For course admission knowledge equivalent to the following is required: Bachelor's Degree in Computer Science and 30 HECs of SL courses in computer science, of relevance to the student's individual degree project, and English B.

Course structure

Examination code	Name	Higher Education Credits
SAKU	Computer Science, Degree Project	30

Course content

The degree project must treat a problem within computer science. The problem must focus on questions from the field of computer science that are of interest to investigate and analyse. The main part of the work should be investigation and analysis. If programming is involved, its purpose should be to verify methods and theories that have been developed in the project. Projects often result in a prototype but very seldom in a finished product. A detailed specification and a timetable for the project must be made. A search for relevant literature in the field must be made and relevant literature must be studied as a foundation for the work. There are some compulsory seminars. The work is presented in a written report and in an oral presentation. The degree project is carried out individually.

Learning outcomes

It is expected that the student after taking the course will be able to:
• independently plan, conduct, report (orally and in writing), criticize and defend a design or investigation task in the computer science area that is important for a problem-owner in industry, administration or academy
• collect and systematize requirements and expectations on the project deliverables, and assess the reasonableness of these in light of available time and resources and independency
• find, obtain, evaluate and compile information relevant for the project realization,
• select a course of action and prepare, follow and adapt a plan for the project, in collaboration with an interested party
• analyse, criticize and defend project results of design or investigation tasks

• write professional reports in Swedish or English complying to established standards of design, language, style and content, with a clear distinction between the student's own work, the work of colleagues and background information
• orally report project results with professional requirements on preparation, content, style and time used, and with a clear definition of the student's own effort
• improve knowledge and skills in an area of computer science

Education

The education consists of seminars and supervision of project work. Participation in seminars at the department is compulsory.

An examiner may rule that a student is not obliged to participate in certain compulsory education if there are
special grounds for this after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through a written report, an oral presentation at a seminar, the acting as opponent, and the ability to keep the project plan.

b. Grading is carried out according to a 7-point scale related to learning objectives:

A = Excellent
B = Very Good
C = Good
D = Satisfactory
E = Sufficient
Fx = Fail
F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course
together with participation in all other compulsory education.

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term "examination" here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased
to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end
of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course may not be included in a Bachelor degree in Computer Science together with the course Degree Project in Computer Science (NA4040), Degree Project in Computer Science (DA9002), or the equivalents.

Misc

The course is a component of the Master's Programme in Computer Science, and it can also be taken as an individual course.

Required reading

The literature is constituted by scientific publications and reports within the relevant field, found by the student
through literature search, and literature distributed by the supervisor and/or external interested party.