EN2600 Project Course on Multimedia Signal Processing 12.0 credits

Projektkurs i multimedia-signalbehandling

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

Establishment

Course syllabus for EN2600 valid from Spring 2010

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

For single course students: 180 credits and documented proficiency in English B or equivalent

Language of instruction

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

Intended learning outcomes

A larger project is to be planned and carried out by a team of students. The result of the project is a software prototype, implemented in Matlab or C/C++. It will realize, for example, a complete video or audio coding system. The project is successfully completed by a presentation and demonstration. The detailed report will be published on the course Web page.
The student will collaborate in a team and solve a technical problem. He/She will apply the theoretical knowledge acquired in previous courses and build a working software prototype. At the end of the project, the student will document and present the work.

Course contents

A group of students will carry out a project with the goal to produce a software prototype before a certain deadline while satisfying given requirements. The prototype will realize, for example, a complete video or audio coding system. The group is responsible for splitting up the project into work items, creating a time table, and distributing the workload. There are several solutions to the given problems. During the course, the groups will face many practical problems that must be solved. An objective of this course is to give training in how to acquire knowledge in order to make good design choices. Thereby, the students will learn how to acquire the theoretical and practical knowledge needed to successfully complete the assigned project. The details for the accomplished project will be summarized in the final report, which will be published on the course Web site. The course concludes with an oral presentation and demonstration of the software prototype. The presentation and final report will have similar requirements than Master's seminar and thesis.

Examination

• PRO1 - Project, 12.0 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.

If the software prototype is successful, the final report with adequate analysis is well written, and all other deliverables are in good shape, then all members who have made significant contributions will receive the highest grade. If this is not the case, the achievements of the individual group members will be scrutinized. This can be done by examining the progress reports and other documents produced as well as from observations done during the course of the project.

Other requirements for final grade

Project (100%)

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.