SD2711 Small Craft Design 10.0 credits

Design av mindre fartyg

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

Establishment

Course syllabus for SD2711 valid from Spring 2012

Grading scale

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

Education cycle

Second cycle

Main field of study

Technology

Specific prerequisites

The course is aimed at students in the first or second year at a Masters program in engineering. Bachelor of engineering with working knowledge in Matlab, mechanics, algebra and calculus is required.

Language of instruction

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

Intended learning outcomes

The technical aim is to develop an advanced naval system from specification to product, constrained by a given budget. During the course the students learn

- to work in a project environment
- written and oral skills
- to analyze technical problems from a systems perspective
- to use modern engineering methods and tools
- to treat and solve technical problems subject to multiple constraints
- develop strategies for systematic use, and choice of available engineering methods

Course contents

The course consists mainly of project based teamwork such as planning, technical design, experimental investigations and manufacturing. In addition regular informative and decisive project meetings are held and frequent informal discussions with teachers. Opportunities to practice leading roles such as project manager, group leader and treasurer could occur. A number of relevant guest lectures in topics ranging from purely technical to project management and communication techniques are planned, normally after consultation with the course participants.

Course literature

Course binder and hand-outs.

Examination

- PRO1 - Project, 10.0 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.

Other requirements for final grade

Course work (ÖVN1-5) and completed project.

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.