HF1005 Engineering and Information Skills 6.0 credits

Informationsteknik och ingenjörsmetodik

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 HF1005 valid from Autumn 2010

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Knowledge corresponding to the qualification requirements for the admission to the bachelor's programme in engineering.

Language of instruction

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

Intended learning outcomes

The main aim of the course is for the student to actively participate in project management and also to acquire knowledge in the form of practical skills that are part of the student's future area of engineering.

After the project course the student should know:

- Perform a pilot study with realistic targets
- Produce a realistic timetable for a project and put in relation to a personal work report and afterwards analyze the result.
- Formulate in writing, the background, the problem, the aim, the delimitations and methods of solutions.
- Conduct meetings and lead the work of a group.
- Formulate a notice to attend a meeting, agenda and records.
- Write and present a report and use proper technical equipment.
- Participate in a project and actively contribute to the result of the project team.
- Produce documents for the management of the project as well as for the follow-up of the project.

Group dynamics:

- Describe the importance of common rules in a group.
- Describe the role of group dynamics when a group is formed

Presentation technique:

- Be able to express yourself in writing in a natural and stringent way.
- Present a technical report in a way that is easy to understand and attracts the interest of an audience
- Search for information in scientific data bases.
- Criticism of sources

Profile specific elements:

- Profile specific elements may be included in order to emphasize the role of the engineer within the profile. Details are presented in each profile’s course memo.

Course contents

- Methods of project and how to manage a project.
- Information search
- Group dynamics
- Presentation technique

- Programme specific element: This aims at providing the students with a general familiarity with those platforms and tools that they will be using later on in their education.

Course literature

Projekthandbok KTH, STH
Kursbunt

Examination

- PRO1 - Project Work, 4.0 credits, grading scale: P, F
- ÖVN1 - Excercises, 2.0 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.

- ÖVN1 - Exercises, 2.0 credits, grade scale: P, F (Program specific element and Information seeking)
- PRO1 - Project Work, 4.0 credits, grade scale: P, F (Methods of project and how to manage a project, Group dynamics and presentation technique)

Other requirements for final grade

Passed exercises (ÖVN1, 2,0 hp), Grade scale P/F
Passed project e (PRO1, 4,0 hp), Grade scale P/F
Final grade, grade scale P/F

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.