



ME1312 Understanding the Interface of Technology and Business 6.0 credits

Kunskapsbildning: att förstå gränssnittet mellan teknik och humaniora

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 ME1312 valid from Spring 2017

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed upper secondary education.

ME1305 Introduction to Industrial Management.

Only for CINEK.

Language of instruction

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

Intended learning outcomes

After completing the course the students should be able to present insights into the practical engineering work concerning the interface between technology and the humanities. The means to reach the learning goal is lectures, literature and practical guest lectures covering cases on how the different knowledge processes that exist within different scientific traditions (Science, Technology, Humanities) affect engineering opportunities to create integration between the various disciplines and business development.

Course contents

Lectures, individual project work, guest lectures from practice and cases.

Disposition

The central parts of the course are built around one or more topical engineer work-cases (varies from year to year). The cases chosen have both technical and economic nature and is thus of a specific nature. The fundamental aspects of science which can be applied to the problem in question is analyzed using cross-disciplinary and epistemological approach - preferably in project/team-work form. The course includes lectures on various sciences basic approach (paradigm), their differences and similarities - and the opportunities/requirements in order to integrate them into a whole in an engineering practice.

Course literature

Thomas S. Kuhn "The scientific revolutions"

Literature related to each year's case.

Examination

- LIT1 - Assignment, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO1 - Project, 3.0 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.

Other requirements for final grade

Passed examination and seminar assignment.

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.