SD1230 Project Course in Vehicle Engineering 15.0 credits

Fördjupningsarbete i fordonsteknik

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 SD1230 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Basic courses in Mathematics, Mechanics, Fluid Mechanics, Matlab and Sound and Vibration

Language of instruction

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

Intended learning outcomes

After the course, the participant should be able to

- apply knowledge and skills acquired in previous courses in solution of vehicle engineering problems
- formulate a technical problem and apply methodology from a vehicle engineering perspective to find and estimate the value of solutions to the problem
- use individual learning methods for widening of his/her knowledge and skill in vehicle engineering
- analyse the need of scientific information, carry out an information retrieval as well as review and compile the information
- present solutions to an engineering problem in a written report with demands for content, structure and use of language (comparable to the TNC norms)
- identify and discuss ethical problems related to the engineering profession
- use the basic terminology and tools for career planning

Course contents

Project work that is carried out individually of in groups of maximum two students.

The project work considers vehicle engineering problems found in industry or society. Technical aspects are integrated with demands from society through laws, regulations, ethics, economics and environmental aspects.

Deepened knowledge of vehicle engineering within the framework of the project.

Information retrieval, oral and written communication.

Professional ethics, integrity, responsibility and reliability.

Active carrier planning.

Course literature

See course program.

Examination

- PRO1 - Project, 15.0 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

Project work (PROJ; 15 university credits).

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.