SD2229 Vehicle Dynamics Project Course Part 1 7.5 credits

Projektkurs i fordonsdynamik del 1

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

The course syllabus is valid from Spring 2022 according to the school principal's decision: S-2022-0529 Decision date: 2022-02-24

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Completed degree project on Bachelor level.

English B / English 6

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 student should be able to:

1. Apply knowledge and theory from past courses, literature review and benchmarking to real life engineering projects
2. Collaborate in a team to plan the work and jointly solve realistic engineering problems
3. Present technical content orally.
4. Write structured scientific and technical reports

This with the purpose of giving the students experience of working in development teams much and prepare the students for the future.

Course contents

The students can in the beginning of the course vote for the projects that they would like to participate in the most. Then the teachers will try to match the students into the projects that they most wanted where each project is between 3-10 students, depending on project. The proposed project come from either industrial partners or from research projects at KTH where there is a clear need to analyse a problem or develop technology.

In the first part of the project course in vehicle dynamics, SD2229, the student will usually do the following steps:

- Benchmarking and related technology search
- Brainstorming and idea generation
- Product definition and analysis

This can however change between what type of project that the student chooses.

Examination

- PRO1 - Report, 7.5 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.

They who will also study SD2230 will only have one Board Review, one Final report and one Final presentation at the end of project course part 2 SD2230.

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.