



# 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

Course syllabus for SD2229 valid from Autumn 2013

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Mechanical Engineering

## Specific prerequisites

The course target students in the end of their Master studies from following programs:

- Vehicle Engineering
- Engineering Design
- Engineering Mechanics

- Electric Power Engineering
- Systems, Control and Robotics

## Language of instruction

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

## Intended learning outcomes

The aim of the course is to let the students apply their knowledge through a project assignment in areas connected to vehicle engineering. E.g. Development, analysis and validation of vehicle concept both for road and rail vehicles. The course should give the students great experience of working in a development team similar to industry where the course process should resemble the industry process. This in order for the students to be more prepared for their future work tasks.

## Course contents

The course will each year have projects for 5-9 students where the project will come from industry and university. Meaning if the course will have 18 students the course will have at least 2 projects and the students will be able to select the project of interest. In this project course the following steps will be done in each project:

- Benchmarking and related technology
- Brainstorming and idea generation
- Produkt definition and analysis

## Disposition

Following parts will be included in grading:

- Individual meetings with teacher
- Board review (part-time presentations)
- Final presentation
- Final report

Final grades is a joint evaluation of the obligatory parts mentioned above.

They who have also choosen SD2230 will only have one Board Review, one final presentation and report at the end of the SD2230 course.

## Course literature

Course literature will be available from course start.

Course literature will be available on course webpage at BILDA: [bilda.kth.se](http://bilda.kth.se).

## 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.