



Report - SD2229 - 2022-02-07

Respondents: 1
Answer Count: 1
Answer Frequency: 100,00 %

Please note that there is only one respondent to this form: the person that performs the course analysis.

Course analysis carried out by (name, e-mail):

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DESCRIPTION OF THE COURSE EVALUATION PROCESS

Describe the course evaluation process. Describe how all students have been given the possibility to give their opinions on the course. Describe how aspects regarding gender, and disabled students are investigated.

The evaluation of the course was done through the use of the learning outcome questionnaire LEQ12 that was sent out to all students in the course, where 9 students responded which is 26% of the students in the course. No information on gender or disabilities could be included in the data due to low participation. The course analysis due to the low participation will only be qualitative.

DESCRIPTION OF MEETINGS WITH STUDENTS

Describe which meetings that has been arranged with students during the course and after its completion. (The outcomes of these meetings should be reported under 7, below.)

Meetings with the students this year due to COVID restrictions was mainly through zoom where lectures and group supervision was through Zoom.

COURSE DESIGN

Briefly describe the course design (learning activities, examinations) and any changes that have been implemented since the last course offering.

Aim of this course is to let the students apply their knowledge through project work in areas connected to vehicle engineering. E.g. development, analysis and validation of new vehicle concepts for road and rail. The course shall give the students experience of working in a development team much like in industry where the process of the course is similar to that of many industries. This is done in order to better prepare the students for future work tasks.

The course will every year have different projects with around 5-9 students in each project and where the projects comes directly from industry partners or from research activities at KTH. Amount of projects vary and depends on the amount of students in the course. In general we have 4-6 projects for the students to choose from.

The following steps will be done in SD2229:

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

In SD2230 which is a continuation the following will be in focus: - Analysis

- Development
- Test and validation
- Product release

Following parts of the course is graded: - Individual meetings

- Presentation
- Report

Final grade is based on a weighted mean from the above parts.

In the course the Canvas online learning tool is used in order to communicate and handle documents and assignments.

No larger changes have been made to the course design for this year.

THE STUDENTS' WORKLOAD

Does the students' workload correspond to the expected level (40 hours/1.5 credits)? If there is a significant deviation from the expected, what can be the reason?

The student workload is varying quite a lot among the once that have responded, some spend 40 hours per week where others only 10 hours.

THE STUDENTS' RESULTS

How well have the students succeeded on the course? If there are significant differences compared to previous course offerings, what can be the reason?

Similar spread on grades as last year but this year a bit higher with many ambitious students. A=24% and B=26% none lower than that.

STUDENTS' ANSWERS TO OPEN QUESTIONS

What does students say in response to the open questions?

Students liked the varying projects to vote on to participate in. They also like to work on real projects and to go deeper into an area and to practice team based engineering.

Students also of course would like to bring the project course back to more physical meetings which was sometimes not possible due to COVID.

SUMMARY OF STUDENTS' OPINIONS

Summarize the outcome of the questionnaire, as well as opinions emerging at meetings with students.

In general quite good feedback with all 12 questions above 6 except for question 7 that have to do with intended learning outcomes.



OVERALL IMPRESSION

Summarize the teachers' overall impressions of the course offering in relation to students' results and their evaluation of the course, as well as in relation to the changes implemented since last course offering.

Even though the course had to be online through zoom many times it still worked relatively well with good output from the students.

ANALYSIS

Is it possible to identify stronger and weaker areas in the learning environment based on the information you have gathered during the evaluation and analysis process? What can the reason for these be? Are there significant difference in experience between:

- students identifying as female and male?
- international and national students?
- students with or without disabilities?

Too few responses to the survey to see anything in regards to gender, disabilities of different nationalities.

PRIORITIZED COURSE DEVELOPMENT

What aspects of the course should be developed primarily? How can these aspects be developed in short and long term?

Keep on working on project selection and to get them prepared for the course start to enable a clear and good project start.
