

Report - DD2415 - 2025-04-28

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):

Jana Tumova, tumova@kth.se

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.

Standard LEQ questionnaire that also includes sub-results per gender and disability.

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.)

During the semester, students had an opportunity to interact with the teachers and the TAs during the lectures, labs, and presentations of assignments. The students were also encouraged to use the discussion forums.

COURSE DESIGN

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

The course consists of 3 main thematic blocks - on control, motion planning, and high-level planning, respectively. Each thematic block consisted of 3 lectures, an individual assignment using Jupyter notebook, and a Canvas quiz. The assignment was structured to three levels of difficulty and the students could choose the level (i.e. grade) that they wish to pursue. The assignment solutions were presented orally to the

teacher and/or teaching assistants. The average grade of the three assignment gave the final grade.

This was the third course offering. We improved the lectures and clarified slides. We made small adjustments to the assignments as well.

THE STUDENTS' WORKLOAD

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

Over 40% of students reported 12-14 hours a week, some reported more. This is roughly according to expectation and comparable to previous years.

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?

In HT23, 17/18 students passed and most of them received grade A. This year, we had 32/36 students passed, but much less of them received grade A and more of them took the opportunity to finish the course in the reexam period. The increase of students and the overall worse grades might indicate that the course is attracting broader audience and students who are interested, but not truly enthusiastic about the topic.

STUDENTS' ANSWERS TO OPEN QUESTIONS

What does students say in response to the open questions?

The students overall enjoyed the lectures and especially the first two assignments. They emphasize the need for reading material and propose also more exciting lab 3.

SUMMARY OF STUDENTS' OPINIONS

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

The students are positive about the course in general; for suggestions for improvement see above.

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.

The course had 8 students in 2022, 18 in 2023, 36 in 2024; compared to last year, we implemented small changes reflecting last years' feedback. This years' feedback remain positive and the impression is that the course went well and changed in the right direction. I completely agree with the students' feedback and will continue working on improvements. Reacting to the previous feedback, we will also expand the course to 7.5HP, meaning that DD2415 will be discontinued and replaced with DD2416.

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?

Due to the small size of the class, not enough data was collected in LEQ to draw conclusions. Students with disabilities mentioned the need for a textbook or reading material. We are committed to fix this.

PRIORITIZED COURSE DEVELOPMENT

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

- Extending the course from 6 to 7.5 HP which was feedback we received from students orally and from the PA.
- Written lecture notes or more informative slides