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## Report - SD2155 - 2021-02-15

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Respondents: 1  
Answer Count: 1  
Answer Frequency: 100.00%

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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):**

matsabom@kth.se

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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.**

Based on the class room impressions and meeting with students + the course evaluation. But unfortunately for some reason much less students than usual replied (4/20) which makes the course evaluation less useful this time.

The impressions, based on also the class room experience & exams, are still that the learning experience and results were good.

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**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.)**

The problem solving part of the course (40 % of the time) is done in a close interaction between students and teachers. During these meetings all aspects of the course can be brought up and discussed.

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**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 lectures (40%), problem solving (40%) and project&Lab (20%). The problem solving is focused on having students work together with close teacher support. An important part of the course are home assignments which are designed to highlight and apply the most essential parts of the theory.

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**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?**

Yes

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**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?**

Out of 27 registered students (25 MSc/2 Phd) 19 MSc student have passed the course after the re-exam. Six students got an A.

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#### **STUDENTS' ANSWERS TO OPEN QUESTIONS**

##### **What does students say in response to the open questions?**

The course is by some considered a bit "heavy" i.e. theoretically demanding.

#### **SUMMARY OF STUDENTS' OPINIONS**

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

In general the students appreciate the course and find it valuable.

#### **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 students taking the course come from a range of programs and this is a challenge. In the course introduction we try to summarize the background knowledge one needs to fully understand the course. In particular experience shows that spending time on complex algebra for linear systems (exp(jwt) and Fourier methods) is important.

#### **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?

No mainly between students with more or less theoretical programs and with one or several earlier acoustics courses.

#### **PRIORITIZED COURSE DEVELOPMENT**

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

1) Updated or new home assignments; 2) New project & lab to replace the truck muffler.

#### **OTHER INFORMATION**

##### **Is there anything else you would like to add?**

No