Report - MH_2046- 2020-05-06

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):

Andrei Ruban, ruban@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.

The evaluation of the course was done during lectures and computer classes, when students could comment on the difficulty of material and their experience with the project work. No issue with gender equality or disability.

DESCRIPTION OF MEETINGS WITH STUDENTS

Describe which meetings that has been arranged with students during the course and after its completion.

Students were gathered after their presentation of the projects and they shared their opinion about their experience with learning and acquired new knowledge.

COURSE DESIGN

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

Course consists of 12 lectures, 9 computer classes and is finished with a seminar, where students presents their projects they were doing during computer classes.

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?

The students' workload correspond on average correspond to the expected level.

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?

All the students succeeded well. Of course, some of them needed more help than the others. However, all the students were quite enthusiastic in their work on the project.

STUDENTS´ANSWERS TO OPEN QUESTIONS

What does students say in response to the open questions?

SUMMARY OF STUDENTS' OPINIONS

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

Most students find the course quite demanding and difficult. That is due to their educational background, which is quite poor at KTH for materials science students.

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.

I've being correcting the lectures all the time (usually simplifying them, in some cases quite substantially). As for computer classes, they are usually given by my PhD students, who have developed a detailed guide for learning some linux, data manipulation and performing ab initio calculations.

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 be? Are there significant differences in experience between:

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

Students are of course different. Some better at learning new things, some better with computers and so on. However, the main difference is due to educational background. The latter is very clearly noticeable: students from other European universities (German, Netherlands, Italy, etc) catch material much more easily, than those from KTH.

PRIORITIZED COURSE DEVELOPMENT

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

It is clear that a further simplifications are needed until there will be additional courses, where KTH students can learn in advance some basic facts about quantum mechanics, statistical physics and solid state physics.

OTHER INFORMATION

Is there anything else you would like to add?

No