



Report - SK2760 (HT20) – 2020-10-29

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

Prof. Muhammet S. Toprak (toprak@kth.se)

COURSE DESIGN

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

No changes since HT2019

THE STUDENT'S 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?

Not too heavy, not too light. Students answer changes between 6 and 20 hrs per week. Depending on their background students have experienced different workload in the course.

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 students (11) completed the course with good achievement level.

OVERALL IMPRESSION OF THE LEARNING ENVIRONMENT

What is your overall impression of the learning environment in the polar diagrams, for example in terms of the students' experience of meaningfulness, comprehensibility and manageability? If there are significant differences between different groups of students, what can be the reason?

Students' response are very positive in the polar diagram. Responses in the polar diagram range between 5.8 and 6.8. There is no significant difference between the responses of male and female students, or Swedish vs. international students. They find the course and the info given in the classroom meaningful and comprehensible.

(5 out of 11 students responded the questionnaire and their response are used to answer the following part in details)



ANALYSIS OF THE LEARNING ENVIRONMENT

Can you identify some stronger or weaker areas of the learning environment in the polar diagram - or in the response to each statement - respectively? Do they have an explanation?

The time students have spent on the course has been increased with respect to last year. Students are content about the teaching environment based on their responses given to specific questions. All the respondents feel that they worked with interesting issues and that the course was challenging in a stimulating way (Q1, Q4); All respondents feel the ILOs helped them to improve their learning (Q7); they were able to learn from concrete examples (Q10); Majority (80%) of the respondents feel that understanding the key concepts had higher priority (Q11); Majority (80%) of the respondents think that the course activities helped them to achieve ILOs effectively (Q12); they found the assessment fair and honest (Q16); Majority of the respondents (80%) feel that their background was sufficient to follow the course (Q17); they regularly spent time to reflect what they have learnt (Q18); that the course activities enabled them learn in different ways (Q19); and they were able to learn by collaborating and discussing with others (Q21). Besides all identify that the support was available whenever they needed (Q22).

ANSWERS TO OPEN QUESTIONS

What emerges in the students' answers to the open questions? Is there any good advice to future course participants that you want to pass on?

The open questions and some of the answers are given below:

What was the best aspect of the course?

- Oral Exam with parameters like physical and chemical synthesis makes me search a lot and I learnt well.
- The course project which encourages to learn about novel topics.
- The best aspect of this course was not to have a written exam.

What would you suggest to improve?

- Maybe more lectures would be better to cover the topics involved in the course.

What advice would you like to give to future participants?

- Start with project as soon as possible
 - Read articles selectively and emphasis more on the link of the material system to the applications.
-

PRIORITY COURSE DEVELOPMENT

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

No action is needed for short term. More reading material will be provided and reverse classroom activities may be tested.

OTHER INFORMATION

Is there anything else you would like to add?

No.
