Report - SK2772 (HT21) – 2021-10-21

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

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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.

No changes since HT2020.

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 17 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 the active students completed the course with pass grades (in the range A-E).

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 5.9 and 7. The students find the course and the info given in the classroom meaningful and comprehendible.

(9 out of 21 active 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?

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); All the respondents feel that understanding the key concepts had higher priority (Q11);); All the respondents think that the course activities helped them to achieve ILOs effectively (Q12); they found the assessment fair and honest (Q16); All the respondents feel that their background was sufficient to follow the course (Q17); 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?

- You can understand important topics about Chemistry.
- Teaching method employed by the professor was the best thing. I even mentioned a comment to most of my Highschool friends had I experienced such teaching prior I could have so much knowledge by now. I am greatful to KTH.
- The stoichiometry equations. I was able to learn them better.
- We had a presentation, and I learned a lot from it.
- Good overall summary of fundamental chemistry concepts, with added focus for nanotechnology
- To learn by preparing a group presentation.
- Group presentation
- The key concepts were completely taught during the lectures.

What would you suggest to improve?

- It was already nice course but maybe a fast lab session could be even nicer.
- I think few of my peers we missing the inspiration. We should have some lab visits and live visual experience of lab work so that we know that some day we are gonna do that. That will be a great incentive for us to understand better.
- Slightly more focus on relevant problem solving(e.g.tutorials, problem examples)
- Clear structure of quiz order (from the earliest chapter to the last one)

What advice would you like to give to future participants?

- Just attend all the lectures, physically if possible. As when we are in our home there's a different atmosphere but when we are out there's pressure in the atmosphere to understand and perform. Psychologicaly when we are interacting We understand better. We have to leave our comfort zone in order to achieve something even though that requires some extra effort (* if not sick)
- Just focus on the lessons and practice more.
- Plan interesting group presentation
- studying each lecture, the same day it has been taught.

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 immediate action is needed for short term.

OTHER INFORMATION

Is there anything else you would like to add?

No.