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Supplementary File_F

Here we present the comments from the students during the focus group interview. Number in brackets shows how many of the 6 students who gave that comments. Notes refers to the teachers notes during the interview.

F1: What experiences do you take away from the two ways of course activities.	
Student keywords	Notes
The experience has made me more structured in the way I study in general . (1) I gained more knowledge on my capabilities for oral in comparison to written exams. (1) I learned that I am very visual and case oriented in my learning. (1)	
F2: What was decisive for you passing the second time and not the first time	
Student keywords	Notes
The second time functioned as repetition and hand-ins helped me understand. Also, the exam that was less stressful the second time. (1) Assessed hand-ins created a motivation for me to work in Excel Spreadsheets. (1) The teacher were more understanding and it seemed like the level and speed was adjusted to 5ECTS. (1) I had learned the lesson and followed the lecturing intensively. I studied hard for exam because it was oral. (1)	Good to have something to work on, in your own pace. Did follow the first course and failing was a shock which made me pull myself together next time. Homework – cases made it more visual and improved understanding. Time to work. 3rd semester is a hard core semester in comparison to 5th where topics are more easy.
F3: How did the graded hand-in assignment affect your motivation to work with the curriculum.	
Student keywords	Notes
Very well. (1) Made a small difference. (1) Having to work with the topics on your own and focus on/work on topics relevant for own catch up was valuable. (1)	Discussion on voluntary and obligatory assignments. Makes a difference to get feedback.

Motivation factor when hand-ins are included in the final grading. (2) I prioritized the hand-ins because I did not pass first time. Then, obligatory assignments resulted in a better understanding of the curriculum for me. (1) Makes a difference for understanding curriculum, when theories can be applied on different assignments. (2) Experienced relation to reality (real world challenges). (1)	First assignment focused on Excel spreadsheet, which forced the application of use of these. Forced hand-ins make them look at more assignments compared to voluntary.

F4: We talk about deep learning – i.e., that students can remember and use what they have learned AFTER the course is over. How has the new teaching method affected your long-term learning.

Student keywords	Notes
First time I learned about 20-30% whereas the second time I understood about 90-98%. It was mainly due to the hand-ins. (1) Working on cases (hand-ins) has given a lot of value to me. (1) It is worth while to learn to use Excel spread sheets. (1) I got a general and better understanding of the topic also because repetition aids in understanding. (1)	AhHa experience. Cod fish fillet case was time consuming just to get acquainted with information in spreadsheet. Comments on semester - see supplementary file_CEQ from year 2023.

F5: What is the difference between preparing for an oral exam versus a written exam.

Student keywords	Notes
Focus on calculations for written exam. (1) Studying curriculum for oral exam. (1) Collect notes for both exams but mainly oral exam. (1) Prepare more for oral exam. (1) Think more about theory for oral exam, because of the risk of questions. (1) You “must” prepare “better” for oral exams than written. (1)	Embarrassing not to have made anything for the hand-in when obligatory. Consider mistakes and correct them is important. In many cases there is not time and a need to move on. Questions visual and know what to do.

I think it is embarrassing to attend an oral exam and not understanding anything, and I therefore make more effort to understand curriculum for oral exams. (1) For oral exams it is possible to correct mistakes and be guided in the right direction. This is not possible for written exam. (1) Think hand-ins could easily be combined with a written exam again (we now know how to use Excel). (1) For written exams I include a lot of material and do not know the questions, whereas for oral exams I have prepared questions from home and know what is expected from me. (1) Did not expect to see an excel spreadsheet for the written exam. (1) Written: collect notes and prepare old exam questions. Oral: dig into curriculum and get stronger in topics where I feel uncertainties. Oral exam gives possibilies to have access to all questions, whereas the written exam the questions is unknown until the exam day. Better to be able to know the questions. (1)	