



## SAMMANSTÄLLNING AV COURSE EVALUATION FOR MODELLING FOR COMBINATORIAL OPTIMISATION 1DL451 11004 HT2022 (1DL451 11004)

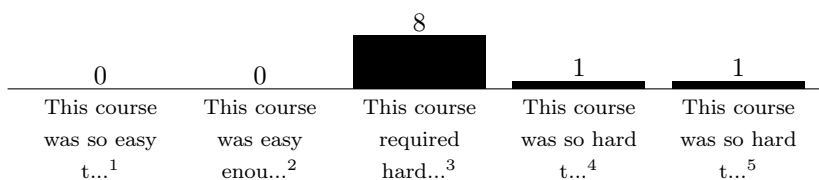
Sammanställd	
Antal svar	10 av 30 (svarsfrekvens 33 %)
Tillgänglig	2022-10-17 – 2022-11-06
Kontaktperson	Loreto Skoknic (loreto.skoknic@it.uu.se), verksam vid It kansliet/Student office
Kurs	Modelling for Combinatorial Optimisation 1DL451 11004 HT2022 (1DL451 11004)

### INFORMATION ABOUT SWEDISH TRANSLATION / INFORMATION PÅ SVENSKA OM FRÅGORNA

Om du behöver hjälp med översättning av dessa frågor till Svenska kan du klicka här.

### START OF QUESTIONS

1. How would you rate the course's degree of difficulty? Description: Here, you are asked how difficult you think the course was, taking its requirements and level into consideration. Please comment on your answer.



<sup>1</sup> This course was so easy that I did not have to work to pass

<sup>2</sup> This course was easy enough that I didn't have to work hard to pass

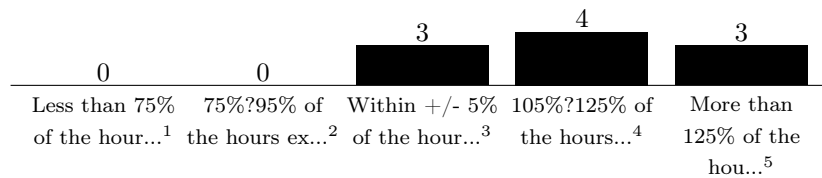
<sup>3</sup> This course required hard work to pass

<sup>4</sup> This course was so hard that I struggled to pass

<sup>5</sup> This course was so hard that it felt impossible to pass

### COMMENTS:

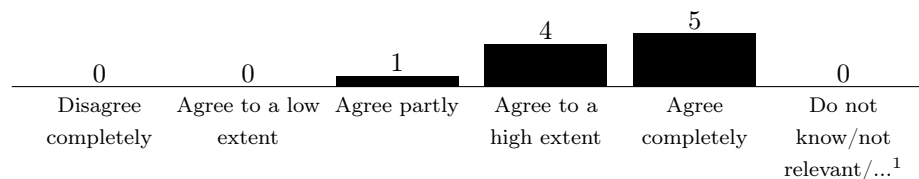
- It was heavy in workload. However, it was well structured with the amount of labs and lectures. It was also well throughout - the assignments gave insight and had really good instructions. The instructions could be gone through by the teacher though, because there seemed to always be some misconception between what the students thought the instructions said and what Pierre wanted to communicate.
2. How did you perceive the course's workload in relation to its size (number of credits)? Description: Here, you are asked how you perceived the workload, i.e. how much total time you invested in relation to full-time. Baseline: a 5-credit course given in a period of 10 weeks is expected to correspond to 1/3 of full-time, or 13.3 hours per week. Please comment on your answer.



- <sup>1</sup> Less than 75% of the hours expected  
<sup>2</sup> 75%?95% of the hours expected  
<sup>3</sup> Within +/- 5% of the hours expected  
<sup>4</sup> 105%?125% of the hours expected  
<sup>5</sup> More than 125% of the hours expected

COMMENTS:

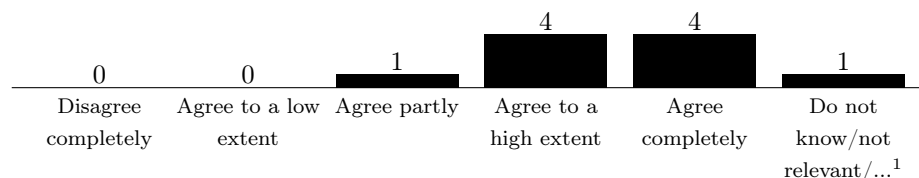
- It took around 24 hours every week.
  - I think this course should be worth at least 7.5 credits. It did require a lot of work, all the time.
3. I took a great deal of responsibility for my own learning during the course. Description: Here, we want to know to what extent you took responsibility for your own learning, or if you e.g. relied more on the efforts of others. Please comment on your answer. (*Medel* = 4,4, *SD* = 0,7) (1 = *Disagree completely*, 5 = *Agree completely*)



- <sup>1</sup> Do not know/not relevant/do not wish to answer

COMMENTS:

- I have learned absolutely enormous amount of new things in this course, attended all lectures and worked on the assignments thoroughly. [5]
4. I contributed to other students' learning during the course. Description: Here, we want to know to what extent you took responsibility for the learning of others. Have you, for example, taken an active role when studying with others, doing lab work with others, etc.? Please comment on your answer. (*Medel* = 4,3, *SD* = 0,7) (1 = *Disagree completely*, 5 = *Agree completely*)



- <sup>1</sup> Do not know/not relevant/do not wish to answer

COMMENTS:

- I have discussed every part of the course with my teammate as well as taken notes of the lectures and sharing those. By discussing the parts and doing the assignments and project with my team mate, I as well as my team mate have gotten many insights. Pair programming is also very beneficial to mutual learning. [5]

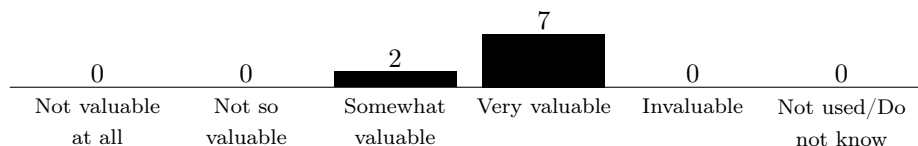


5. I feel that the treatment of students in the course has been good (e.g. regarding equal treatment or program affiliation) and that no one has been disadvantaged by the organization, content or execution of the teaching. (Note: If you feel that you have experienced or witnessed harassment or sexual harassment, please fill in the form at <https://doit.medfarm.uu.se/bin/kurt3/kurt/26328>. You can do so anonymously. For more information see [https://www.it.uu.se/about\\_us/harassment\\_information](https://www.it.uu.se/about_us/harassment_information) ( $Medel = 4,6$ ,  $SD = 0,7$ ) ( $1 = Disagree completely$ ,  $5 = Agree completely$ )

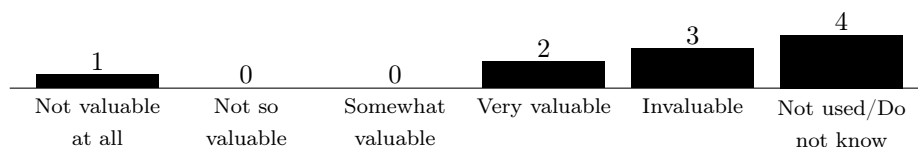


6. How valuable were the different activities in the course for your learning? ( $1 = Not valuable at all$ ,  $5 = Invaluable$ )

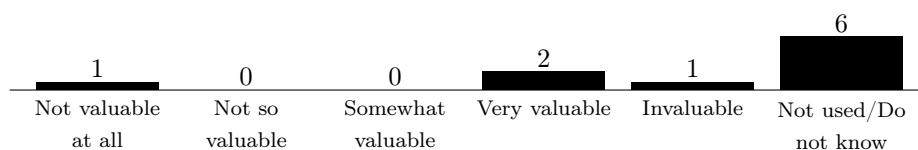
a. Lectures ( $Medel = 3,8$ ,  $SD = 0,4$ )



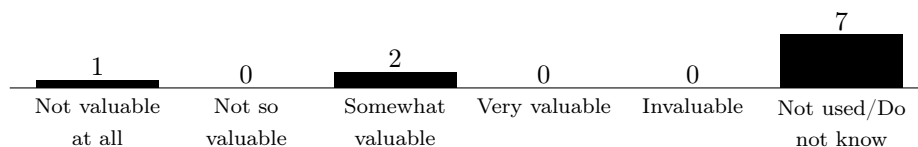
b. Lab sessions ( $Medel = 4,0$ ,  $SD = 1,4$ )



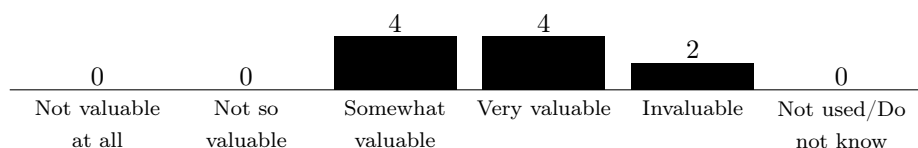
c. Problem solving sessions ( $Medel = 3,5$ ,  $SD = 1,5$ )



d. Seminars ( $Medel = 2,3$ ,  $SD = 0,9$ )

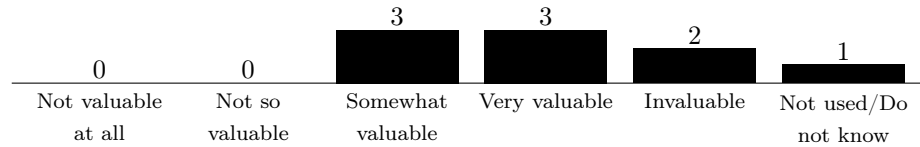


e. Discussions with fellow students ( $Medel = 3,8$ ,  $SD = 0,7$ )

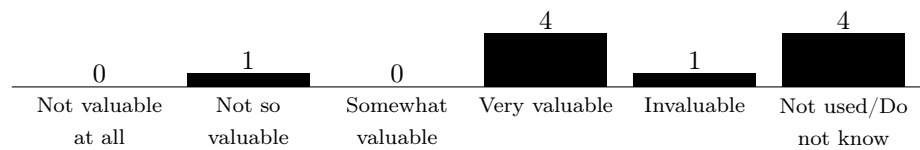




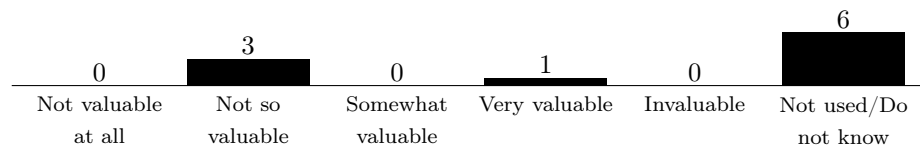
f. Discussions with members of the teaching staff ( $Medel = 3,9$ ,  $SD = 0,8$ )



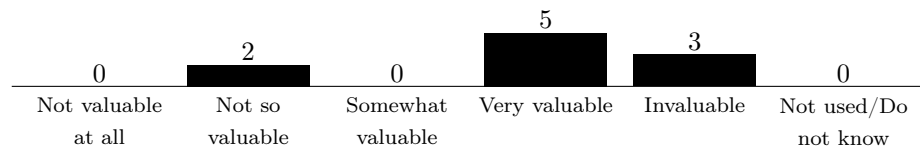
g. The course literature and other resources provided by the course ( $Medel = 3,8$ ,  $SD = 0,9$ )



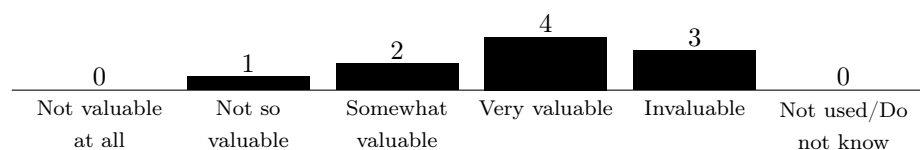
h. External material (web pages, youtube videos etc.) that were NOT provided by the course ( $Medel = 2,5$ ,  $SD = 0,9$ )



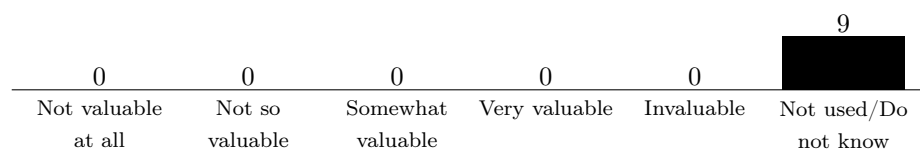
i. Project work / group work ( $Medel = 3,9$ ,  $SD = 1,0$ )



j. Self-studies or assignment work at home ( $Medel = 3,9$ ,  $SD = 0,9$ )



k. Studying for the exam

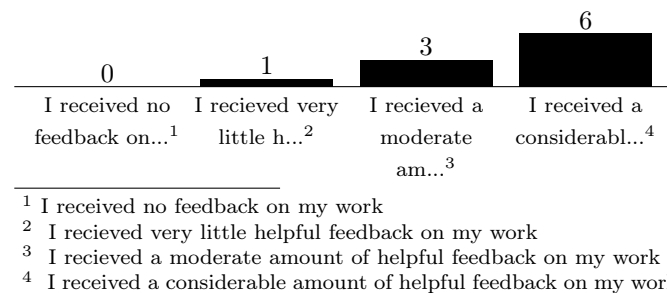


COMMENTS:



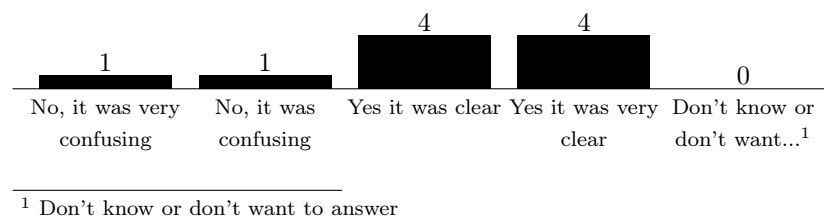
- I must say that Pierre knowing everyone's name and passion regarding his subject during lectures, as well as the very kind lab assistants that always answered every question is invaluable. It made this course feel like a bubble where you are not a "replaceable student" but rather an individual and that the course is really about learning and not just a professor having to "give lectures to a bunch of students as always". [a: 4, b: 5, c: Not used/Do not know, d: 3, e: 5, f: 5, g: Not used/Do not know, h: Not used/Do not know, i: 5, j: 2, k: Not used/Do not know]

7. Disregarding grading, the teaching staff gave me helpful feedback on my work and suggested improvements



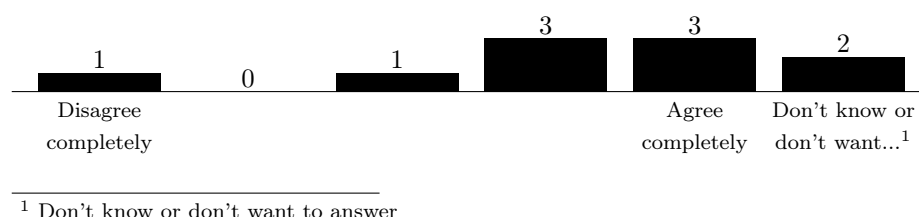
COMMENTS:

- For Assignment 2, there was no feedback at all. For the other Assignments, there was given useful feedback (even though it was sometimes clear that the evaluator did not read the report very carefully).
8. It was easy to understand the standard of work expected for a particular grade (*Medel* = 3,1, *SD* = 0,9) (1 = No, it was very confusing, 4 = Yes it was very clear)



COMMENTS:

- Good information in general in this course. [4]
  - It was somewhat unclear if we were being graded on the quality of our model, or on the quality of our written reports and explanations, or both. [2]
9. The assessment methods used in this course made sure that only students with an in-depth understanding received high grades (*Medel* = 3,9, *SD* = 1,3) (1 = Disagree completely, 5 = Agree completely)

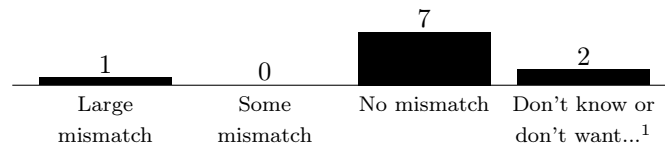




COMMENTS:

- Yes, it required getting to know every part of the course in detail. [5]

10. Did you experience a mismatch between the prerequisites of this course and what you have learned from previous courses? ( $Medel = 2,8$ ,  $SD = 0,7$ ) (1 = Large mismatch, 3 = No mismatch)

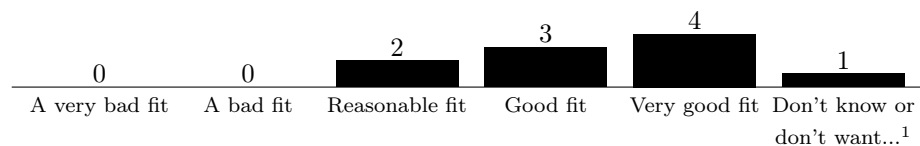


<sup>1</sup> Don't know or don't want to answer

COMMENTS:

*Inga kommentarer givna*

11. How well does this course fit in your degree program – did it help you obtain knowledge you expect from your degree program? ( $Medel = 4,2$ ,  $SD = 0,8$ ) (1 = A very bad fit, 5 = Very good fit)



<sup>1</sup> Don't know or don't want to answer

COMMENTS:

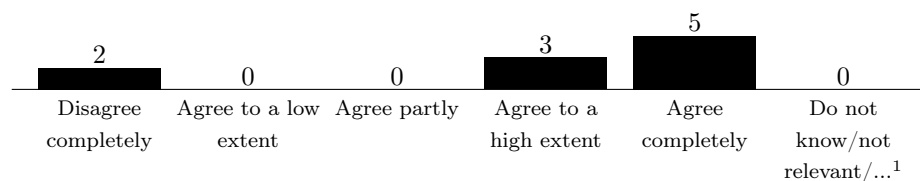
- Maybe not the thing i will work with in the future, but it was so fun that it has certainly made me think about it! It was overall a good problem solving course, something every engineer has a profit from. [3]

12. What do you think were the best thing(s) about this course? Description: Here, you can highlight efforts, characteristics or parts of the course you thought were good.

- learning optimization
- I liked the reverse classroom structure for this course because it gave me more freedom on how and when to learn the material. I really liked that the assignments were on GitHub AND that they had automated tests!
- [The teacher]'s humour and passion regarding his subject. The good structure of the course. [The PhD student assistant] and the lab assistants. That [the teacher] learned everyone's name! That it was such a good problem solving course.
- I liked the assignments.
- I wasted my money by taking this course so called top ranking university. This course sucks. Too much stress level. [The course is an] unforgiven crime.
- The demo report was very helpful once you understand it. The integration with latex from the backends was also very helpful and time saving.



- I really enjoyed the course, it was very well-made and generally fun. It was clear that [the main teacher] has put a lot of high-quality effort into it. It also turned out helpful to have a report skeleton with a clear structure. The assignments were fun, and the help sessions in general helpful. But, as mentioned earlier, the workload was too high for a 5-credit course.
  - Practical exercises were very helpful for understanding concepts.
  - The help and solution sessions were very helpful, showcasing different kinds of solutions which we did not necessarily think of.
13. Please provide constructive suggestions for course development. Description: With your help, the course can be made better, and something that is already good can be made even more prominent/effective.
- the structure of the course for 5 credits is completely wrong. I would give the material of the second part of the course in the first part. In this part we didn't learn any theory. I felt myself like a monkey that learned to click some buttons
  - Overall good course. Maybe a bit too big of a workload.
  - The slides are not that good compared to this one which i found on internet <http://www.it.uu.se/research/g> [The course is an] unforgiven crime. i felt help session were helpful not lecture. I think we should be provided recorded previous lecture session before every lecture session then we student could asked what part of lectures were unclear to us. I believe on each year example may be updated but we student could still refer to old example if we are provided with old recorded session. i think TA should be assigned from PHD student only not from Master's student who have taken this course.
  - More help sessions for the first assignment. It is very hard to get started because there are too many new things to learn. I think that running more code in minizinc during the lectures can be helpful in this regard. The coupling between the lectures and help sessions become very abstract.
  - The course in its current form should be worth 7.5 credits. Project presentations were not necessary I think; it was hard to understand projects that one did not oneself work with. It was good to get feedback, but this could have been done in a written form, based on the initial report. [The PhD student assistant] was very helpful. The other TAs seemed to sometimes lack a deeper knowledge of the subject, to be honest.
  - The most difficult and time-consuming part for us was in the beginning of the course before we got familiar with the most common predicates and their uses. Perhaps some exercises could be included with the array comprehensions on how to use these.
14. Overall, I am satisfied with this course. Description: Here you are asked how well you think the course worked in relation to everything from teacher, content, forms of instruction, and examination to scheduling. Please comment on your answer. (*Medel = 3,9, SD = 1,5*) (*1 = Disagree completely, 5 = Agree completely*)



COMMENTS:



- my weekend was gone after taking this course. I have to admit that course teacher wants student to have deep understanding of course and make us prepare for PHD student life but I felt that workload was too heavy for me to digest. [1]
- At first I thought the course was very hard and confusing. But after assignment 2 I started to enjoy the course more and more. Now I find the course to have been very good. [4]
- I did like the course a lot, but it was too intense. [5]