



SAMMANSTÄLLNING AV COURSE EVALUATION FOR A COMPUTATIONAL INTRODUCTION TO STOCHASTIC DIFFERENTIAL EQUATIONS FTN0332 TN22H006 2022H ()

Dear students,

Please help us improving the course "a computational introduction to stochastic differential equations" by filling the following questionnaires.

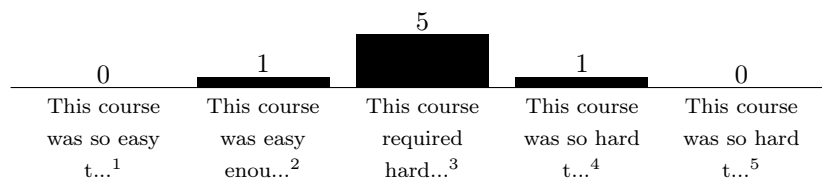
Sammanställd	7
Antal svar	2022-12-19 – 2022-12-24
Tillgänglig	Zheng Zhao (zheng.zhao@it.uu.se), verksam vid Systemteknik
Kontaktperson	A computational introduction to stochastic differential equations
Kurs	FTN0332 TN22H006 2022H ()

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.



¹ This course was so easy that I did not have to work to pass

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

³ This course required hard work to pass

⁴ This course was so hard that I struggled to pass

⁵ This course was so hard that it felt impossible to pass

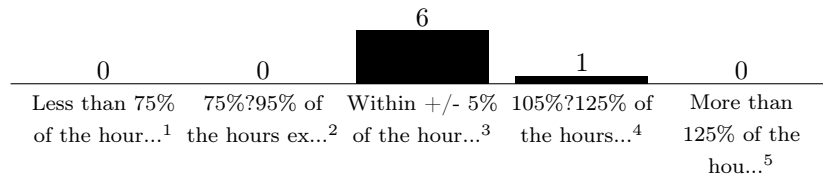
COMMENTS:

- The good thing was that it was possible to put in more effort to get more out of it. Generally, I wanted to solve (and solved) more of the assignments than was required. A possibility for the next occasion is to keep the 'give it an honest try and get full points' for each assignment, but to require a few more points. (On the other hand, I personally enjoyed the greater freedom to explore the material where I wanted, so not a trivial solution here)

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.



¹ Less than 75% of the hours expected

² 75%-95% of the hours expected

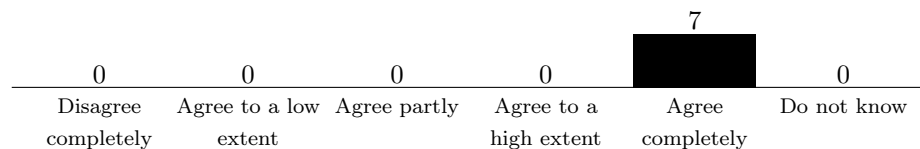
³ Within +/- 5% of the hours expected

⁴ 105%-125% of the hours expected

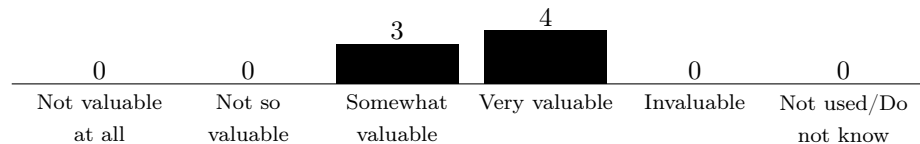
⁵ More than 125% of the hours expected

COMMENTS:

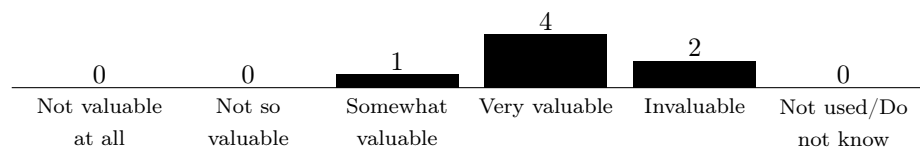
- But then, as stated above, I put some extra effort into solving (but not necessarily presenting) the assignments, pretty much based on the expected credit workload.
3. I feel that the treatment of students in the course has been good (e.g. regarding equal treatment or program affiliation) and that 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 ($Medel = 5,0$, $SD = 0,0$) ($1 = Disagree completely$, $5 = Agree completely$)



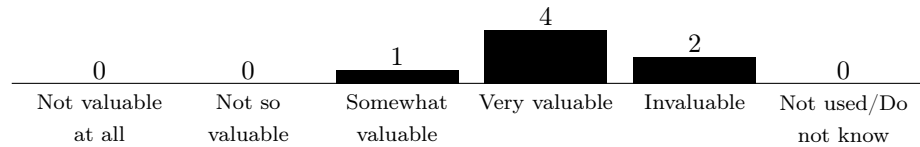
4. How valuable were the different activities in the course for your learning? ($1 = Not valuable at all$, $5 = Invaluable$)
- a. Lectures ($Medel = 3,6$, $SD = 0,5$)



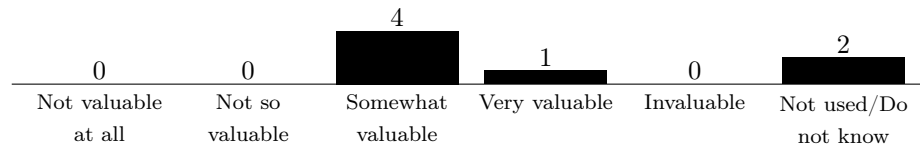
- b. Exercises ($Medel = 4,1$, $SD = 0,6$)



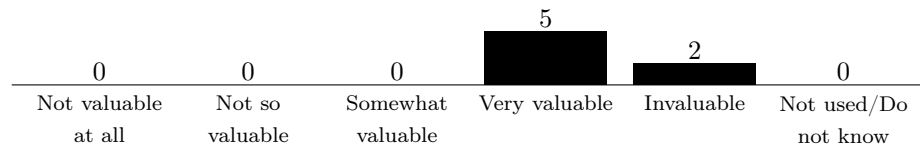
- c. Project works ($Medel = 4,1$, $SD = 0,6$)



d. Seminars ($Medel = 3,2$, $SD = 0,4$)



e. Lecture notes ($Medel = 4,3$, $SD = 0,5$)

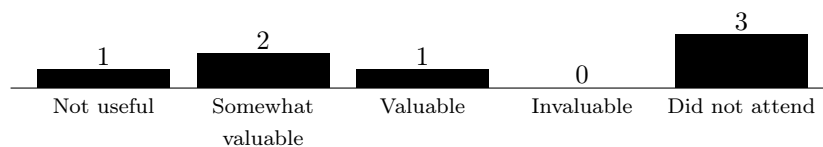


COMMENTS:

- As is a typical drawback of the lecture format, it could at times be a bit passive (although the python examples in class were very useful). Perhaps a flipped classroom style would do well here: present the lecture material 'off-site' and work hands-on on the python code examples in class (or something like this) [a: 3, b: 4, c: 4, d: 3, e: 4]

5. Did you attend the seminar courses? How useful were they to you? ($1 = Not\ useful$, $4 = Invaluable$)

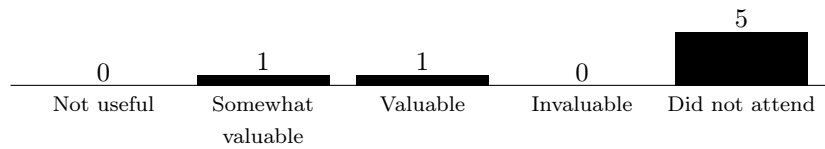
a. Differential geometry for continuous-time stochastic filtering: the projection filter, Muhammad Emzir ($Medel = 2,0$, $SD = 0,7$)



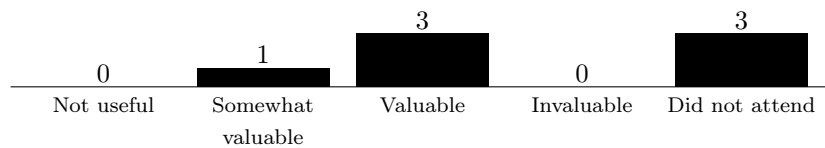
b. SDEs and Markov chain Monte Carlo, Cagatay Yildiz ($Medel = 3,0$, $SD = 0,0$)



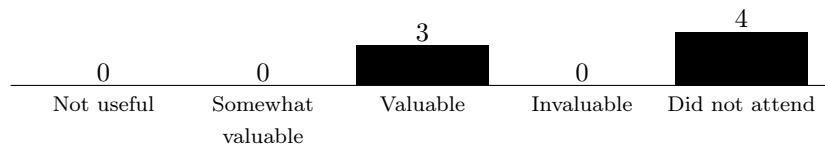
c. Probabilistic numerics for ordinary differential equations, Nathanael Bosch ($Medel = 2,5$, $SD = 0,5$)



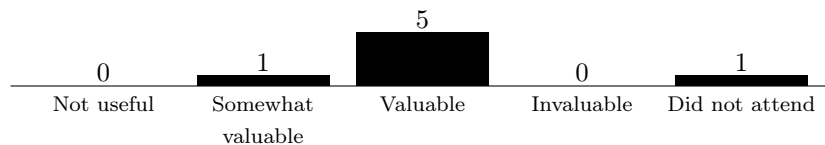
d. Compiled and differentiable scientific computing with JAX, Zheng Zhao ($Medel = 2,8$, $SD = 0,4$)



e. Constructions of Wiener processes, Zheng Zhao ($Medel = 3,0$, $SD = 0,0$)



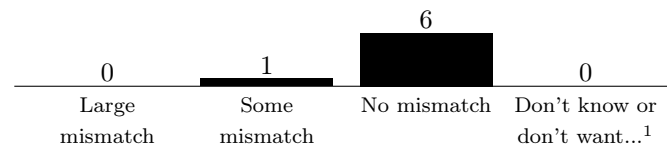
f. Gaussian process SDE models, Roland Hostettler ($Medel = 2,8$, $SD = 0,4$)



COMMENTS:

- Possibly relevant note: I did not abstain from the seminars due to lack of interest, but due to overlapping schedules. [a: Did not attend, b: 3, c: Did not attend, d: Did not attend, e: Did not attend, f: 3]

6. Did you experience a mismatch between the prerequisites of this course and what you have learned from previous courses? ($Medel = 2,9$, $SD = 0,3$) (1 = Large mismatch, 3 = No mismatch)

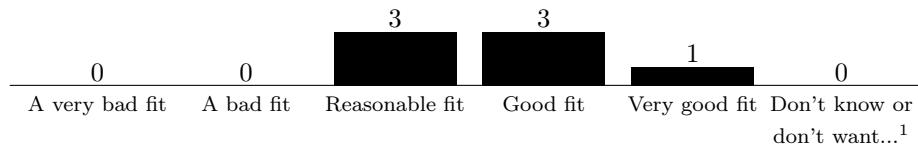


¹ Don't know or don't want to answer

COMMENTS:

Inga kommentarer givna

7. How well does this course fit in your degree program – did it help you obtain knowledge you expect from your degree program? ($Medel = 3,7$, $SD = 0,7$) (1 = A very bad fit, 5 = Very good fit)

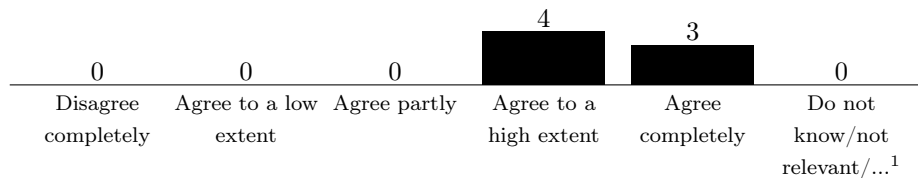


¹ Don't know or don't want to answer

COMMENTS:

Inga kommentarer givna

8. 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. (*Antal obesvarade = 6*)
 - Assignments were very nice to work with and to learn from. The freedom of the final project made it possible to try my wings and learn a lot as well.
9. 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. (*Antal obesvarade = 6*)
 - It would be nice if the lecture notes were typed in LaTeX.
10. 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 = 4,4, SD = 0,5*) (*1 = Disagree completely, 5 = Agree completely*)



¹ Do not know/not relevant/do not wish to answer

COMMENTS:

- Feels like I learnt a lot, and that I now a good foundation to stand on! Well done, I certainly believe this to course to be useful to many students in the future. [5]