

Course Analysis for MATB25 Discrete Mathematics Autumn 2023

Course Information

Lecturer: Anna Torstensson

Teaching assistants: Jan Henrik Thomm

Number of students:

27 newly registered and 5 re-registered.

9 students answered the course evaluation (includes also AMAD04 and FMAB75 students)

Examination

Programmingproject: 20 students passed. **Oral examination**: 20 students passed. **Written examination**: 20 students passed.

- Ordinary examination 18/12 2023: 18 students participated and 18 of them passed.
- Resit examination 9/1 2024: 4 students participated and 2 of them passed.

Final grades:

In all, 20 students, including 1 re-registered student, have got their final grade. 12 passed with distinction. 8 passed.

Course Evaluation

Summary of student's answers:

The students that answered were in general happy with the course overall, even though there were some suggestions for smaller adjustments. One may suspect, however, that it was the most satisfied and active students that answered as they participated more in lectures than the average student. Note that the evaluation included also students from the Faculty of Engineering taking the course together with the students from Faculty of Science.

Teachers' comments:

This term the teaching had a flipped classroom design. There werre two 2-hour lectures in the each week introducing that week's topics and the second one centered around difficult concepts and problem solving. More elaborate lectures containing a detailed exposition of both theory and problem solving were provided as films in Canvas. Each week there were two units with accompanying videos and guides for working with videos, the textbook and exercise problems. The students were expected to work on the units at home, and then bring questions to the exercises classes that were offered twice a week. The attendance rate was higher than previous years for both lectures and exercise classes and the students more active. This is compared to when the course was held in the spring so that affects the selection of students coming, especially from LTH. Still only about half of the students attended lectures and around 25% the exercise classes.

Changes from the previous course realisation:

Small improvements of the Canvas material to make navigation easier. The second lecture each week was always adopted to questions that came up during lectures and seminars so it has different content each year.

Suggestions for the next course realisation:

Remind the students of the importance of filling in the course evaluation. Include (an existing recorded) guest lecture on applications of discrete math in the program.

Course evaluation report - CEQ, FMAB75

Basic facts

Course name	Discrete Mathematics		
Course code	FMAB75	Study hours according	
ECTS credits	7.5 hp	the curricula	8
Year	202324	Lectures	54 h
Study period the course was finished	HT_LP2	Group work	0 h
Programme	all	Laboratories	0 h
Registrated students	66	Time with	2 h
Number answers and response rate	10 / 15 %	supervisor	2 11
Number answers from males	6	Self study time	144 h
Number answers from females	3		

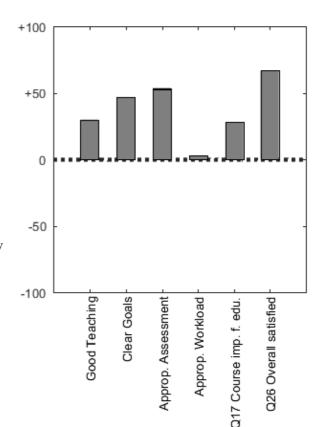
Since less than 20 students have answared the questionnaire no statistical significance tests have been made.

Summary of questionnaires

The CEQ-score span between -100 och +100, there -100 means that "I fully disagree to the statement" and +100 "I fully agree to the statement".

Presence at teaching

Part of teaching	Number Share	
0 %	0 0%	
20 %	1 10 %	
40 %	1 10 %	
60 %	2 20 %	
80 %	2 20 %	
100 %	4 40 %	



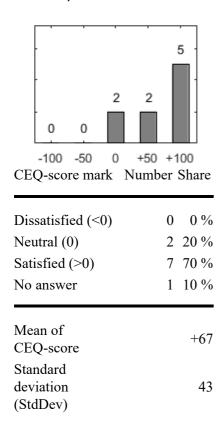
CEQ-scales & special questions

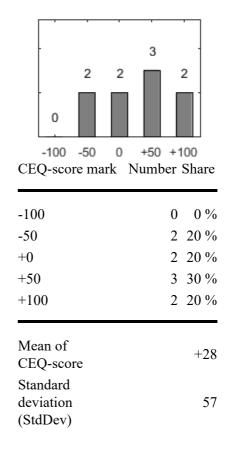
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Scale	CEQ-score	StdDev			
Good Teaching	+30	32			
Clear Goals and Standards	+46	33			
Appropriate Assessment	+54	37			
Appropriate Workload	+3	48			
Generic Skills	+36	29			
Special questions					
The course seems important for my edu.	+28	57			
Overall, I am satisfied with this course	+67	43			

2024-02-13 1/10

Distribution of the answers from question 26: "The course seems important for my "Overall, I am satisfied with this course"

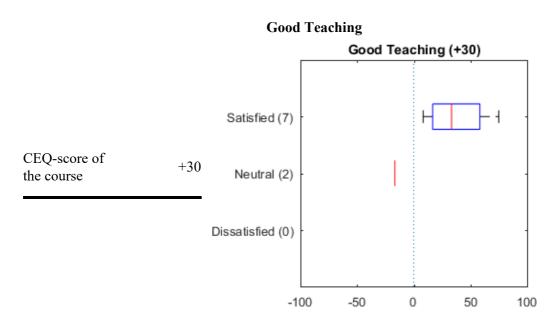
Distribution of the answers from question 17: education"





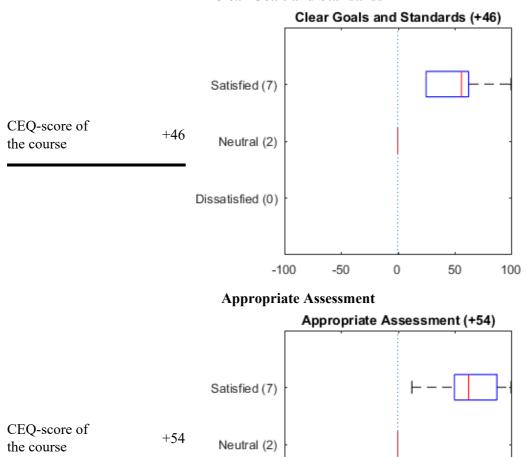
Summary scales divided on satisfaction

Statistical examination has not been done due to at least two groups consist of less than five students



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Clear Goals and Standards



Appropriate Workload

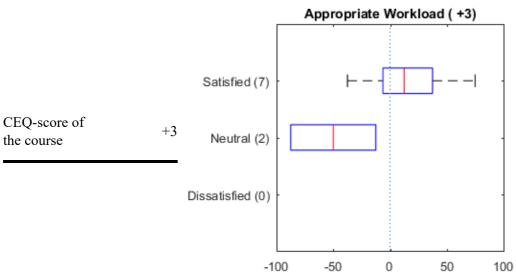
-50

0

50

100

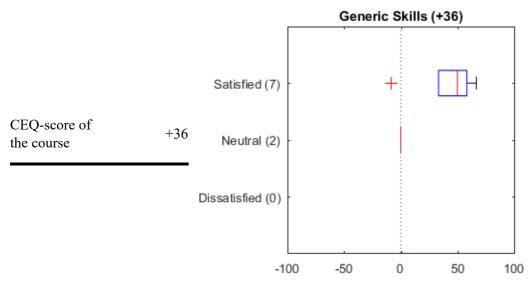
-100



Dissatisfied (0)

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Generic Skills



Answers to each question

The questions in bold are reverse positive.

Statistical examination between dissatisfied and satisfied has not been done due to at least one of the groups consist of less than five students

Good Teaching (+30)

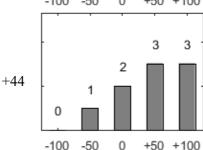
Question	CEQ-score	Histogram
3. The teaching has motivated me to do my best	+50	2 0 0 0 +50 +100
7. During the course I have received many valuable comments on my achievements	-6	4 3 0
15. The teachers made a real effort to understand the problems and difficulties one might be having in this course	+28	-100 -50 0 +50 +100 6 2 0 1 0 -100 -50 0 +50 +100

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18. The teaching staff normally gave me helpful feedback on the progress of my work

19. My lecturers were extremely good at explaining things

21. The teachers on the course worked hard to make the subject interesting



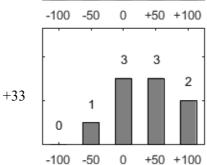
Clear Goals and Standards (+46)

Question CEQ-score Histogram

1. It was easy to know the standard of work expected

+28

6. I usually had a clear idea of where I was going and what was expected of me in this course



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13. It was often hard to discover what was expected of me in this course

-28 2 1 1 0 -100 -50 0 +50 +10

5

25. The teachers made it clear right from the start what they expected from the students

-100 -50 0 +50 +100 3 2 -100 -50 0 +50 +100

Appropriate Assessment (+54)

Question CEQ-score Histogram

8. To do well in this course all you really needed was a good memory

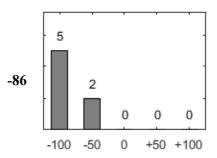
-33 2 2 1 0 0

12. The teachers seemed more interested in testing what I had memorised than what I had understood

16. The assessment methods employed in this course required an in-depth understanding of the course content

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20. Too much of the assessment was just about facts

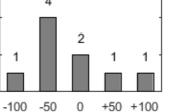


Appropriate Workload (+3)

Question CEQ-score Histogram

4. The workload has been much too heavy

-17



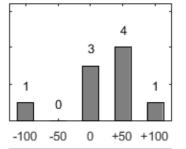
14. I was generally given enough time to understand the things I had to learn

22. There was a lot of pressure on me as a student in this course

+22

-100

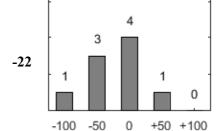
-50



0

+50 +100

24. The sheer volume of work in this course made it impossible to comprehend everything thoroughly



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Generic Skills (+36)

Question	CEQ-score	Histogram
2. The course has developed my problem-solving skills	+72	0 0 0 +50 +100
5. The course has sharpened my analytic skills	+56	-100 -50 0 +50 +100
9. The course helped me develop my ability to work in a group	+38	-100 -50 0 +50 +100
10. The course has made me feel more confident about tackling new and unfamiliar problems	+61	5 3 0 0 1 5 -100 -50 0 +50 +100
11. The course has improved my skills in written communication	-11	3 3 0 0 -100 -50 0 +50 +100
23. The course has helped me to develop the ability to plan my work	+13	5 1 1 1 0 -100 -50 0 +50 +100

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