

Course evaluation report - CEQ, FMAN25

Basic facts

Course name	Calculus of Variations		
Course code	FMAN25		
ECTS credits	7.5 hp		Study hours according the curricula
Year	202122		Lectures 16 h
Study period the course was finished	VT_LP2		Group work 0 h
Programme	all		Laboratories 0 h
Registrated students	20		Time with supervisor 0 h
Number answers and response rate	4 / 20 %		Self study time 84 h
Number answers from males	3		
Number answers from females	1		

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

Summary of questionnaires

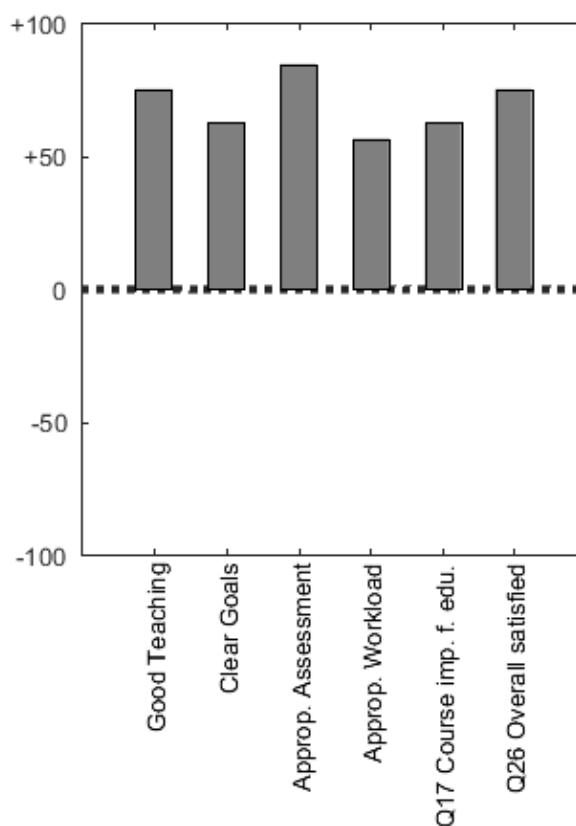
The CEQ-score span between -100 och +100, there -100 means that "I fully disagree to the statement" and +100 "I fully agree to the statement".

Presence at teaching

Part of teaching	Number	Share
0 %	0	0 %
20 %	0	0 %
40 %	1	25 %
60 %	0	0 %
80 %	0	0 %
100 %	3	75 %

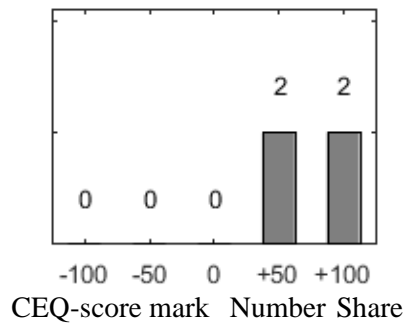
CEQ-scales & special questions

Scale	CEQ-score	StdDev
Good Teaching	+75	22
Clear Goals and Standards	+63	43
Appropriate Assessment	+84	24
Appropriate Workload	+56	52
Generic Skills	+67	38
Special questions		
The course seems important for my edu.	+63	48
Overall, I am satisfied with this course	+75	29



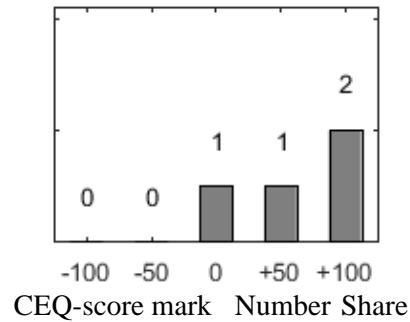
Distribution of the answers from question 26: "Overall, I am satisfied with this course"

Distribution of the answers from question 17: "The course seems important for my education"



Category	Number	Share
Dissatisfied (<0)	0	0 %
Neutral (0)	0	0 %
Satisfied (>0)	4	100 %
No answer	0	0 %

Mean of CEQ-score	+75
Standard deviation (StdDev)	29



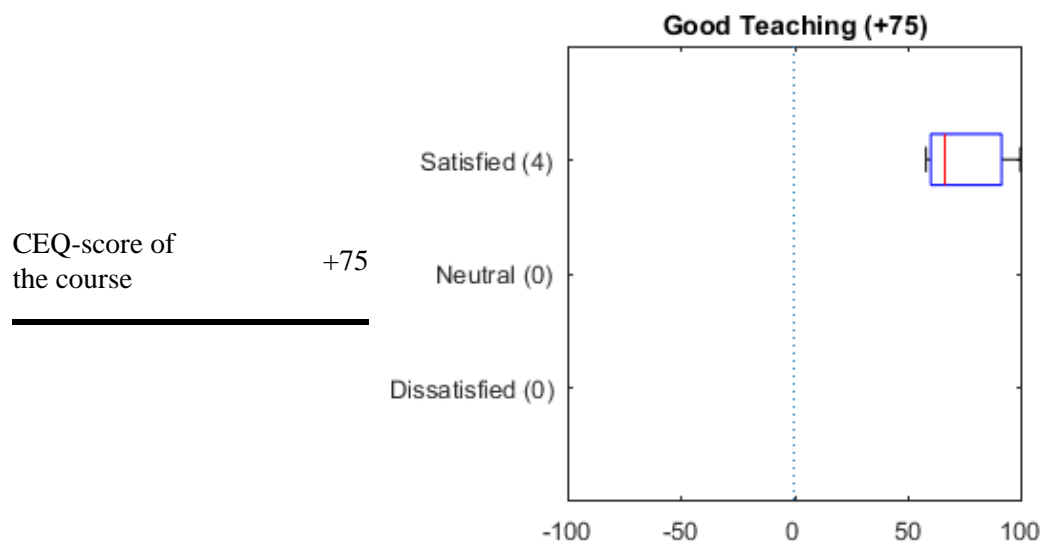
Category	Number	Share
-100	0	0 %
-50	0	0 %
+0	1	25 %
+50	1	25 %
+100	2	50 %

Mean of CEQ-score	+63
Standard deviation (StdDev)	48

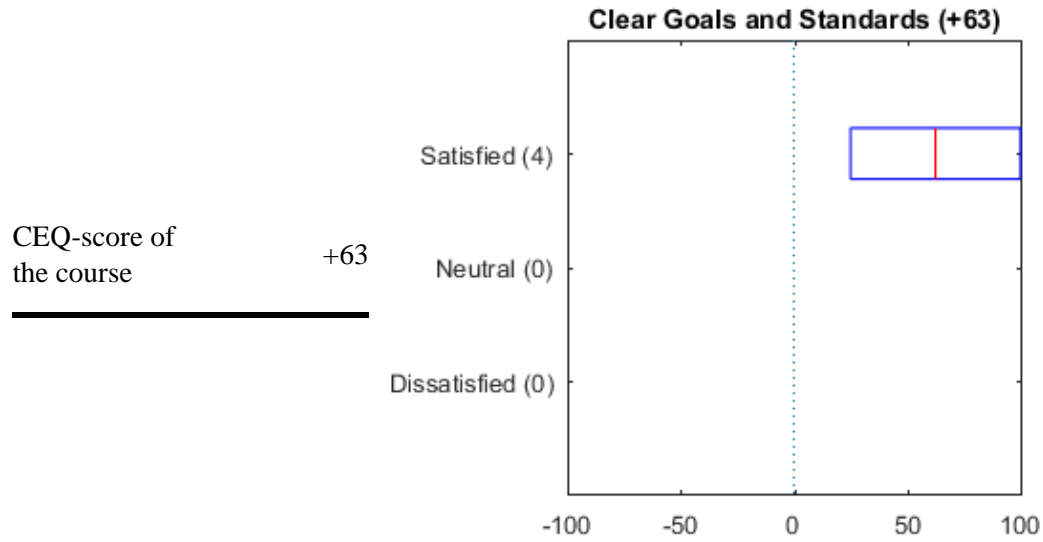
Summary scales divided on satisfaction

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

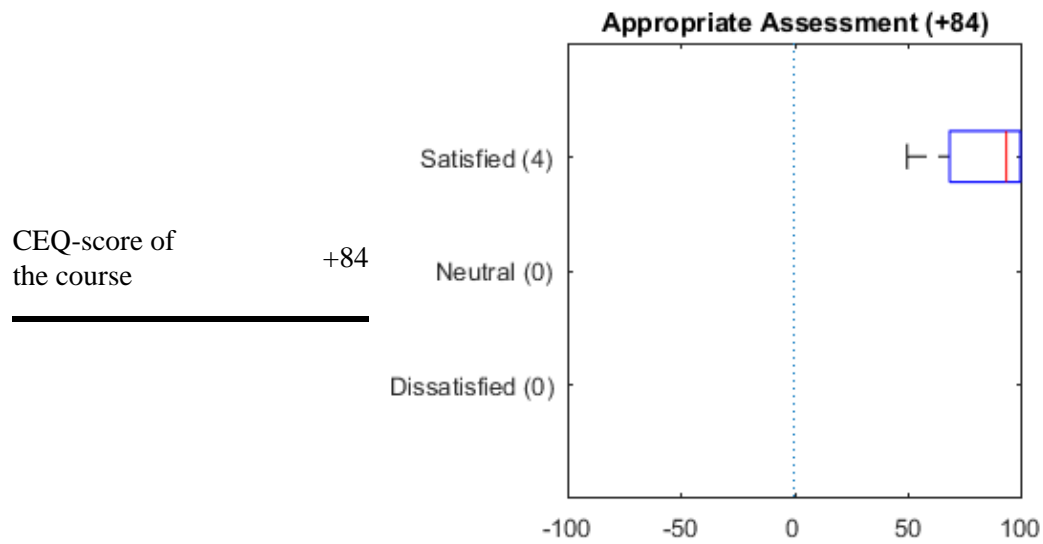
Good Teaching



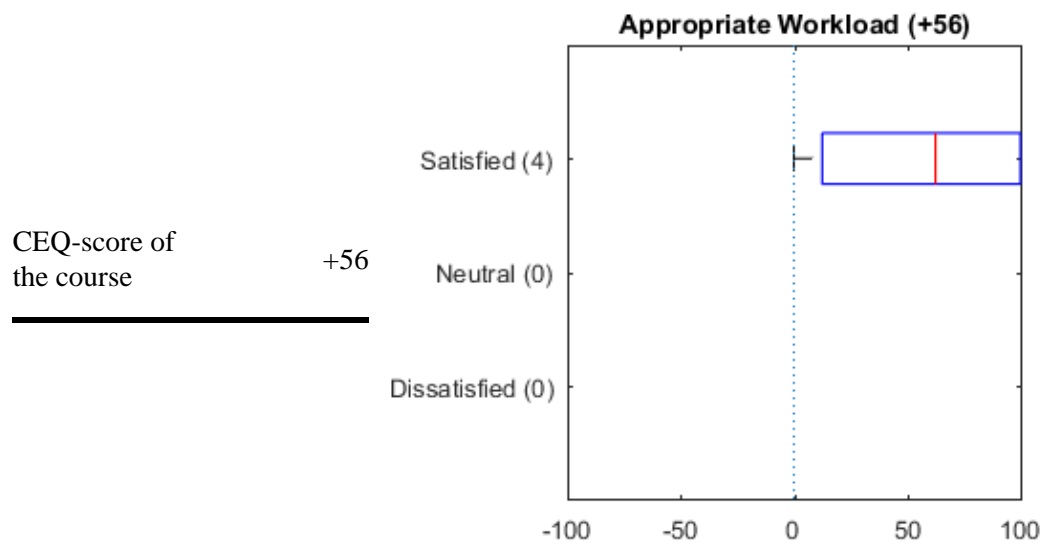
Clear Goals and Standards



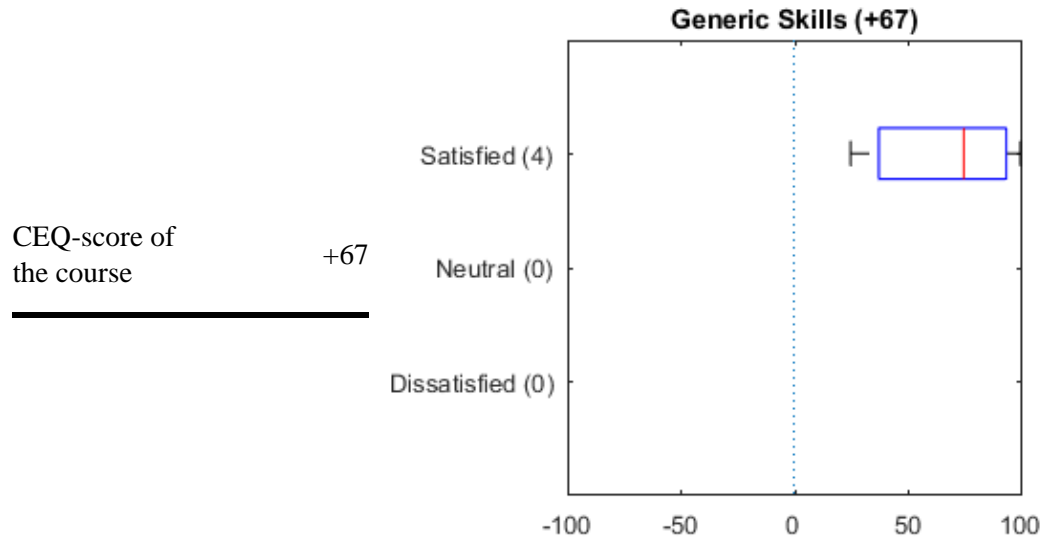
Appropriate Assessment



Appropriate Workload



Generic Skills



Answers to each question

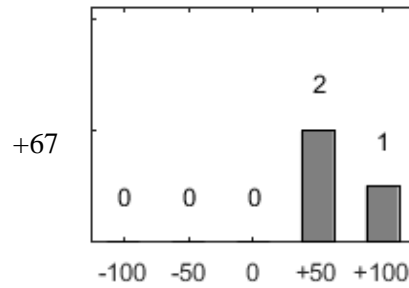
The questions in bold are reverse positive.

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

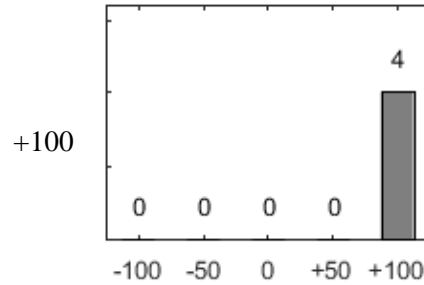
Good Teaching (+75)

Question	CEQ-score	Histogram
3. The teaching has motivated me to do my best	+100	
7. During the course I have received many valuable comments on my achievements	+63	
15. The teachers made a real effort to understand the problems and difficulties one might be having in this course	+67	

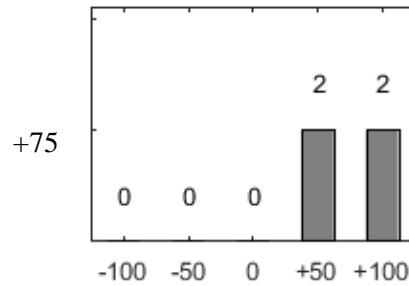
18. The teaching staff normally gave me helpful feedback on the progress of my work



19. My lecturers were extremely good at explaining things



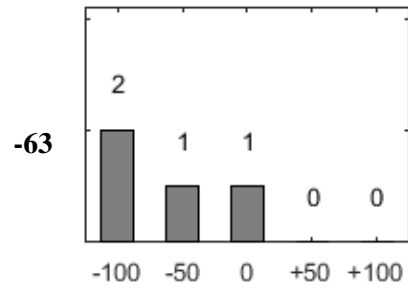
21. The teachers on the course worked hard to make the subject interesting



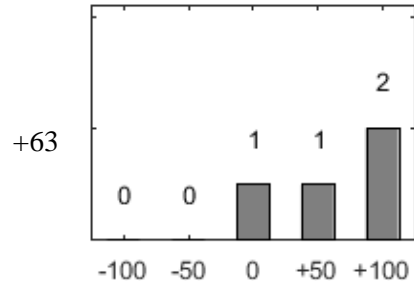
Clear Goals and Standards (+63)

Question	CEQ-score	Histogram												
1. It was easy to know the standard of work expected	+63	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>0</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>+50</td> <td>1</td> </tr> <tr> <td>+100</td> <td>2</td> </tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	1	+50	1	+100	2
Score	Count													
-100	0													
-50	0													
0	1													
+50	1													
+100	2													
6. I usually had a clear idea of where I was going and what was expected of me in this course	+63	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>0</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>+50</td> <td>1</td> </tr> <tr> <td>+100</td> <td>2</td> </tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	1	+50	1	+100	2
Score	Count													
-100	0													
-50	0													
0	1													
+50	1													
+100	2													

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



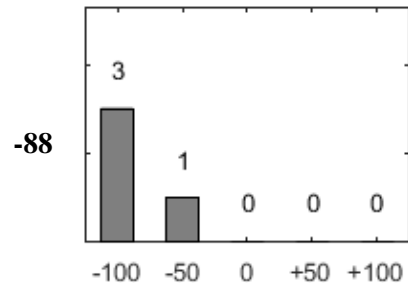
25. The teachers made it clear right from the start what they expected from the students



Appropriate Assessment (+84)

Question	CEQ-score	Histogram												
8. To do well in this course all you really needed was a good memory	-88	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>3</td> </tr> <tr> <td>-50</td> <td>1</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>+50</td> <td>0</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	3	-50	1	0	0	+50	0	+100	0
Score	Count													
-100	3													
-50	1													
0	0													
+50	0													
+100	0													
12. The teachers seemed more interested in testing what I had memorised than what I had understood	-88	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>3</td> </tr> <tr> <td>-50</td> <td>1</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>+50</td> <td>0</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	3	-50	1	0	0	+50	0	+100	0
Score	Count													
-100	3													
-50	1													
0	0													
+50	0													
+100	0													
16. The assessment methods employed in this course required an in-depth understanding of the course content	+75	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>0</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>+50</td> <td>2</td> </tr> <tr> <td>+100</td> <td>2</td> </tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	0	+50	2	+100	2
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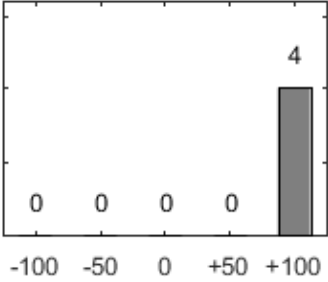
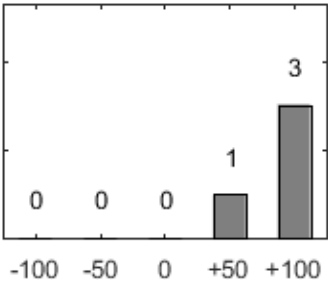
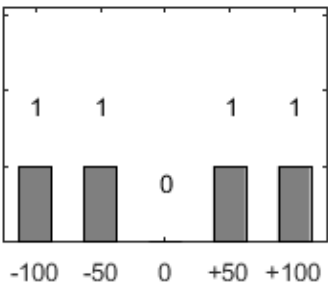
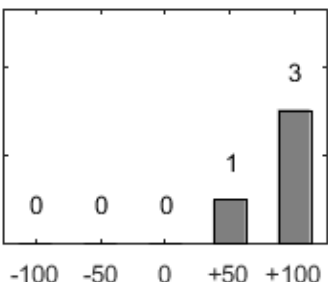
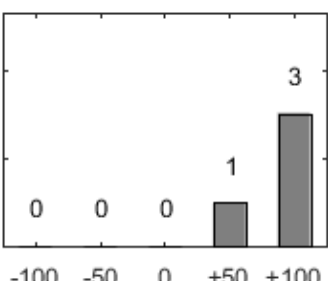
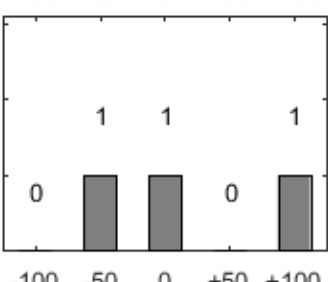
20. Too much of the assessment was just about facts



Appropriate Workload (+56)

Question	CEQ-score	Histogram												
4. The workload has been much too heavy	-50	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>2</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>+50</td> <td>0</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	2	-50	0	0	2	+50	0	+100	0
Score	Count													
-100	2													
-50	0													
0	2													
+50	0													
+100	0													
14. I was generally given enough time to understand the things I had to learn	+63	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>0</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>+50</td> <td>1</td> </tr> <tr> <td>+100</td> <td>2</td> </tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	1	+50	1	+100	2
Score	Count													
-100	0													
-50	0													
0	1													
+50	1													
+100	2													
22. There was a lot of pressure on me as a student in this course	-50	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>2</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>+50</td> <td>0</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	2	-50	0	0	2	+50	0	+100	0
Score	Count													
-100	2													
-50	0													
0	2													
+50	0													
+100	0													
24. The sheer volume of work in this course made it impossible to comprehend everything thoroughly	-63	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>3</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>+50</td> <td>1</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	3	-50	0	0	0	+50	1	+100	0
Score	Count													
-100	3													
-50	0													
0	0													
+50	1													
+100	0													

Generic Skills (+67)

Question	CEQ-score	Histogram
2. The course has developed my problem-solving skills	+100	
5. The course has sharpened my analytic skills	+88	
9. The course helped me develop my ability to work in a group	+0	
10. The course has made me feel more confident about tackling new and unfamiliar problems	+88	
11. The course has improved my skills in written communication	+88	
23. The course has helped me to develop the ability to plan my work	+17	

Free text answers

The free text answers are pre-reviewed by the students' representatives.

What were the best aspects of the course

Satisfied students

I really enjoyed how the teacher explained things and the fact that we were graded in the end (assignment and oral examination about solving a new problem).

Niels-Christian är en väldigt duktig föreläsare, och alltid hjälpsam om man har frågor (även om det kan ta lite tid ibland då han verkar ha mycket att göra...). Bra frågor på inlämningsuppgifterna.

Väldigt bra och kunnig föreläsare som verkligen visat ett intresse av ämnet, vilket gjort kursen väldigt rolig och intressant. Föreläsningarna har också varit väldigt bra, då de på ett väldigt pedagogiskt samt engagerande och intresseväckande sätt gått igenom materialet med många motiverande exempel som verkligen motiverat innehållet och byggt viktig intuition för materialet. Slutligen var även examinationen väldigt bra. Den bestod av väldigt intressanta uppgifter, som både fick en att se till att man kunde den teori som gått igenom, samt även fick en att till viss del tänka till och utveckla teorin vidare med hjälp av de tekniker man stött på i kursen.

Neutral students

Dissatisfied students

What aspects of the course are most in need of improvement?

Satisfied students

I would have liked more exercise classes on the second half of the course.

Kanske att det vore intressant att få veta lite mer om tillämpningarna av det man lär sig. Vi får absolut exempel på att optimering av en viss integral motsvarar något fysikaliskt (som typexemplet om minimal falltid), men inte så mycket hur och i vilken utsträckning variationskalkyl används i modern teknik. Skulle kunna vara lämpligt att inleda eller avsluta kursen med några ord om det? :)

Ingenting. Ser verkligen inget negativt med kursen.

Neutral students

Dissatisfied students