



LUND UNIVERSITY  
Faculty of Science

Centre for Mathematical Sciences  
Division of Mathematics and Numerical  
Analysis

## Course Analysis for NUMN26 Simulation Tools, Spring 2024

### Course Information

**Lecturer:** Robert Klöfkorn

**Teaching assistants:**

**Number of students:**

9 registered in total.

4 students answered the course evaluation.

### Examination

**Project:** 9 students passed.

**Final grades:**

In all, 9 students, have got their final grade: G (Pass). The course grading scale is G and U (Pass and Fail).

### Course Evaluation

**Summary of student's answers:**

See evaluation below.

**Teachers' comments:**

The text provides a summary of the implementation of the course and the teaching.

- Lectures, seminars (on campus, distance learning, recordings)
- Homework
- Lecture notes, exercises

The examination is in form of a project discussion with questions from the teacher. This is usually challenging for the students because as soon as some room for interpretation is left, the students struggle to come up with suggestions on how to fill this void. This clearly shows a lack of independence which this course and it's setup try to train. This is reflected by some of the comments showing the extra effort the students have to invest here.

**Changes from the previous course realization:**

Compared to the previous course realization, what changes have been made and what was the outcome.

**Suggestions for the next course realization:**

No changes are planed for the coming course realization.

# Course evaluation report - CEQ, FMNN05

## Basic facts

Course name	<b>Simulation Tools</b>		
Course code	FMNN05		<b>Study hours according the curricula</b>
ECTS credits	7.5 hp	Lectures	28 h
Year	202324	Group work	0 h
Study period the course was finished	VT_LP1	Laboratories	0 h
Programme	all	Time with supervisor	3 h
Registrated students	22	Self study time	169 h
Number answers and response rate	4 / 18 %		
Number answers from males	2		
Number answers from females	2		

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

## Summary of questionnaires

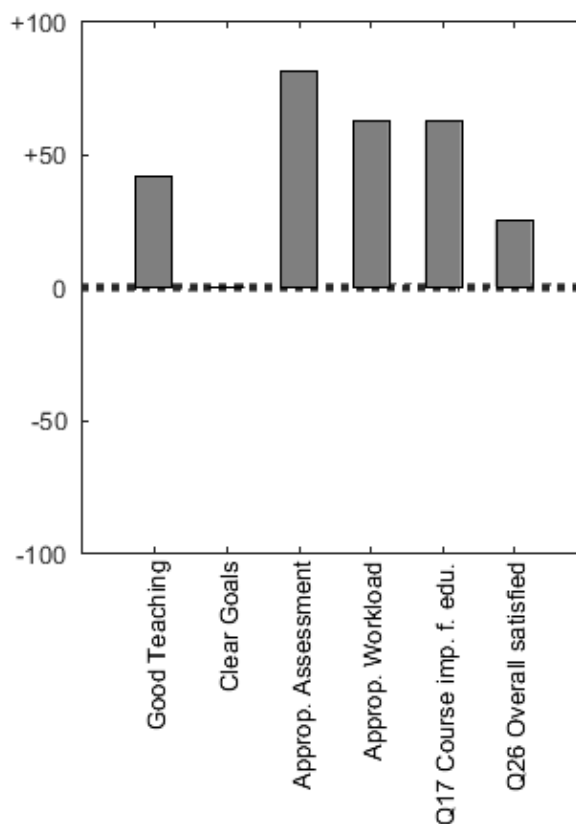
The CEQ-score span between -100 och +100, there -100 means that "I fully disagree to the statement" and +100 "I fully agree to the statement".

### Presence at teaching

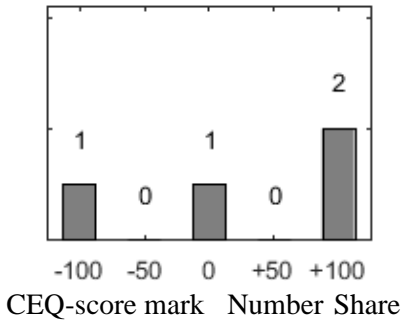
Part of teaching	Number	Share
0 %	0	0 %
20 %	0	0 %
40 %	1	25 %
60 %	0	0 %
80 %	1	25 %
100 %	2	50 %

### CEQ-scales & special questions

Scale	CEQ-score	StdDev
Good Teaching	+42	71
Clear Goals and Standards	+0	81
Appropriate Assessment	+81	22
Appropriate Workload	+63	33
Generic Skills	+47	29
<b>Special questions</b>		
The course seems important for my edu.	+63	25
Overall, I am satisfied with this course	+25	96

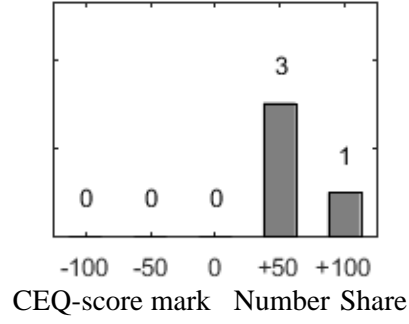


**Distribution of the answers from question 26: "Overall, I am satisfied with this course"**      **Distribution of the answers from question 17: "The course seems important for my education"**



CEQ-score mark	Number	Share
Dissatisfied (<0)	1	25 %
Neutral (0)	1	25 %
Satisfied (>0)	2	50 %
No answer	0	0 %

Mean of CEQ-score: +25  
 Standard deviation (StdDev): 96



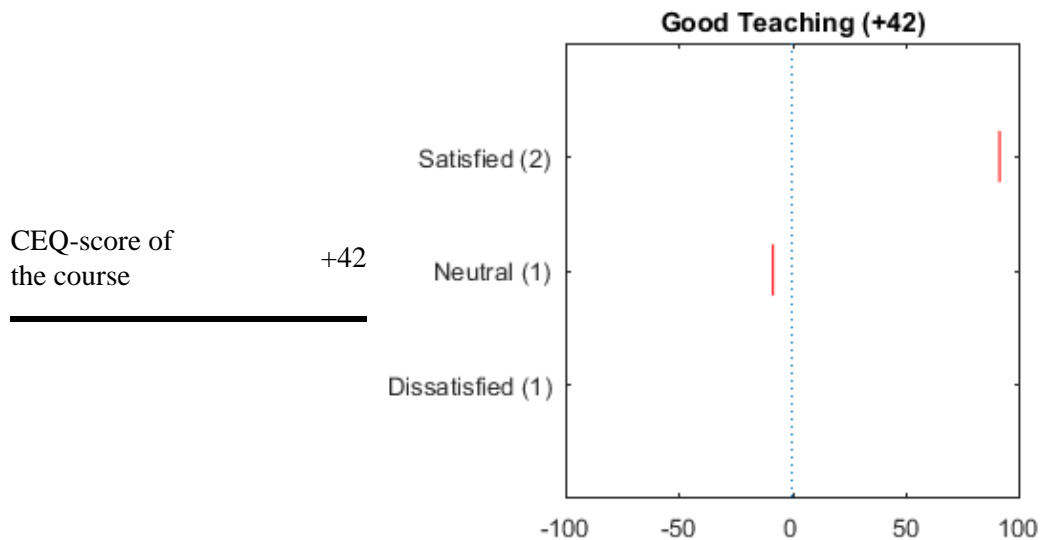
CEQ-score mark	Number	Share
-100	0	0 %
-50	0	0 %
+0	0	0 %
+50	3	75 %
+100	1	25 %

Mean of CEQ-score: +63  
 Standard deviation (StdDev): 25

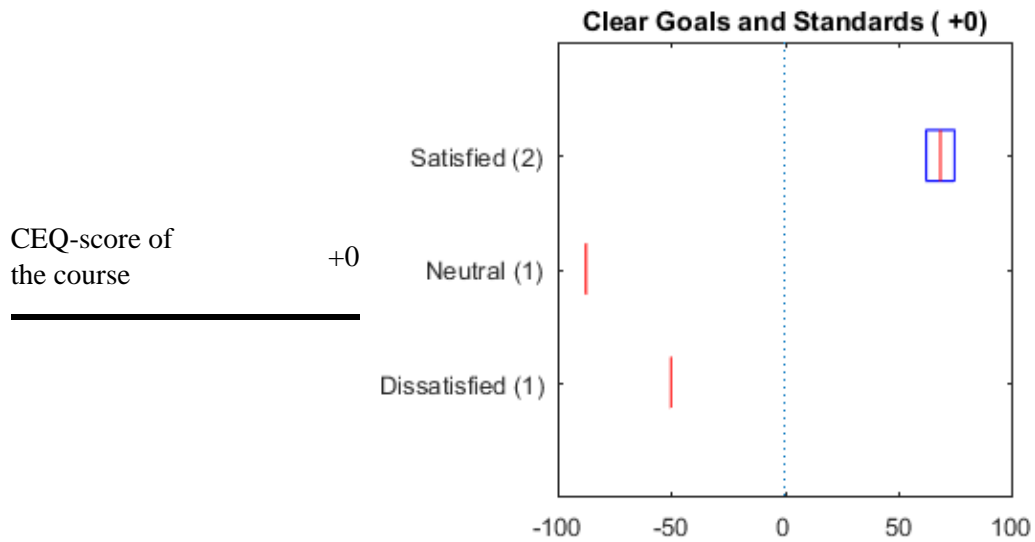
## Summary scales divided on satisfaction

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

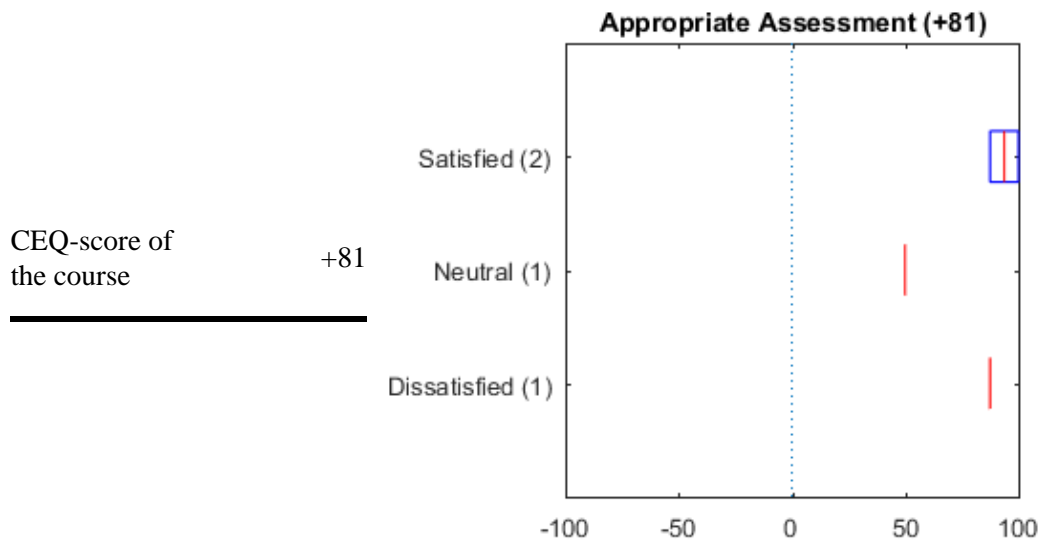
### Good Teaching



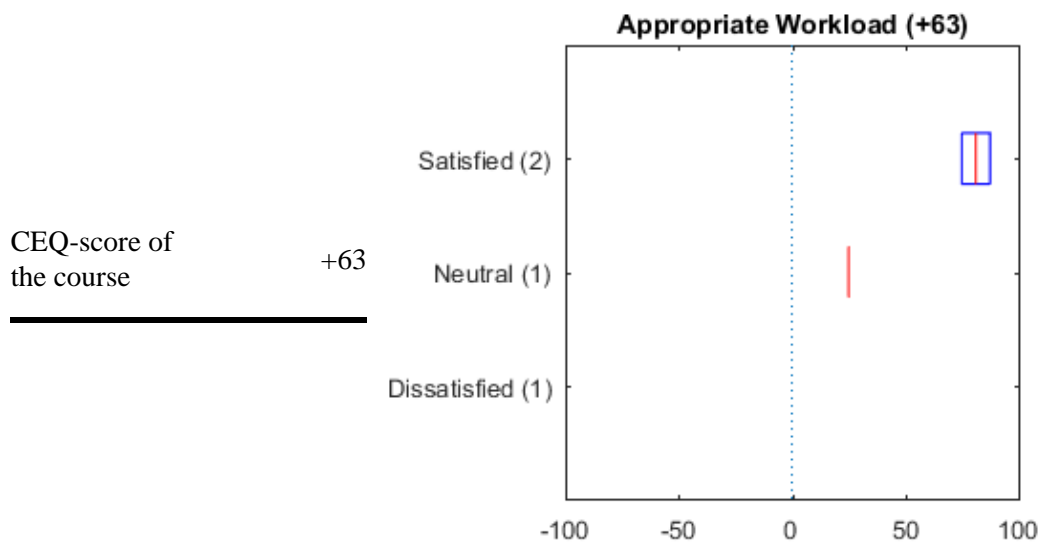
**Clear Goals and Standards**



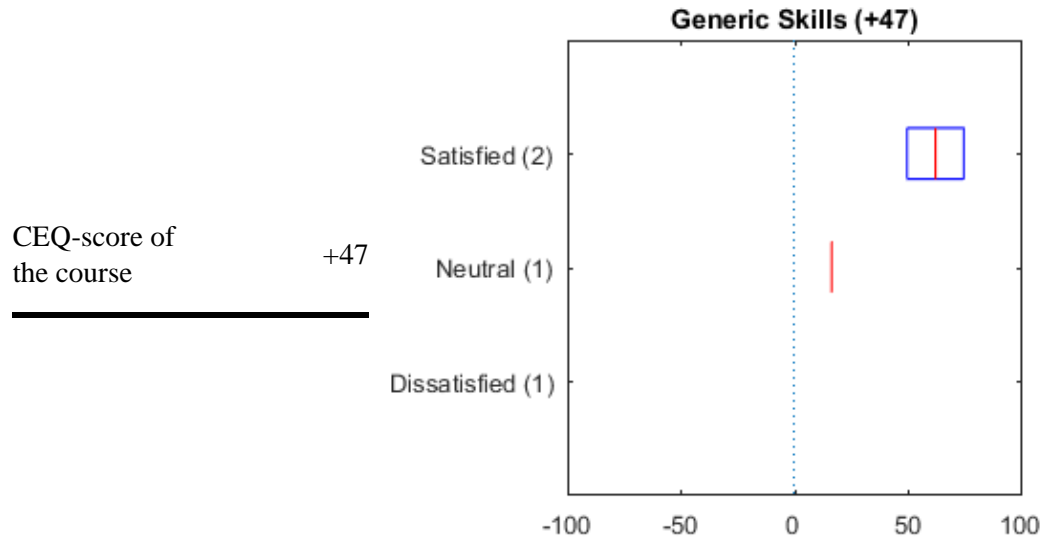
**Appropriate Assessment**



**Appropriate Workload**



**Generic Skills**



**Answers to each question**

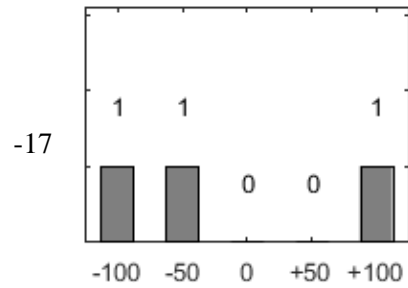
*The questions in bold are reverse positive.*

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

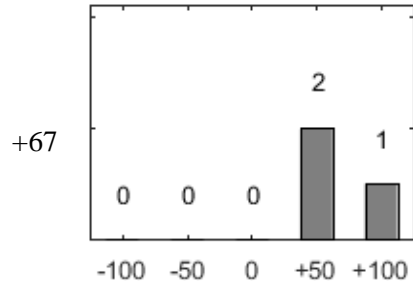
**Good Teaching (+42)**

Question	CEQ-score	Histogram
3. The teaching has motivated me to do my best	+0	
7. During the course I have received many valuable comments on my achievements	-33	
15. The teachers made a real effort to understand the problems and difficulties one might be having in this course	+25	

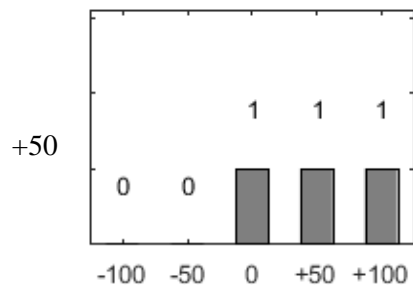
18. The teaching staff normally gave me helpful feedback on the progress of my work



19. My lecturers were extremely good at explaining things



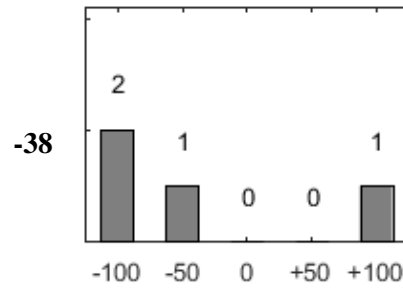
21. The teachers on the course worked hard to make the subject interesting



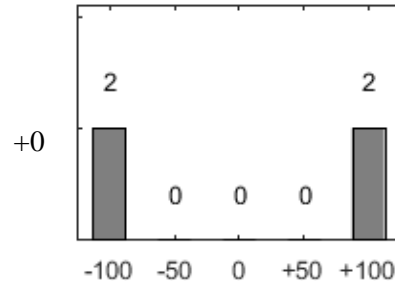
### Clear Goals and Standards ( +0)

Question	CEQ-score	Histogram												
1. It was easy to know the standard of work expected	-13	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>1</td> </tr> <tr> <td>-50</td> <td>1</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>+50</td> <td>2</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	1	-50	1	0	0	+50	2	+100	0
Score	Count													
-100	1													
-50	1													
0	0													
+50	2													
+100	0													
6. I usually had a clear idea of where I was going and what was expected of me in this course	-25	<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>0</td> </tr> <tr> <td>+50</td> <td>2</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	2	-50	0	0	0	+50	2	+100	0
Score	Count													
-100	2													
-50	0													
0	0													
+50	2													
+100	0													

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



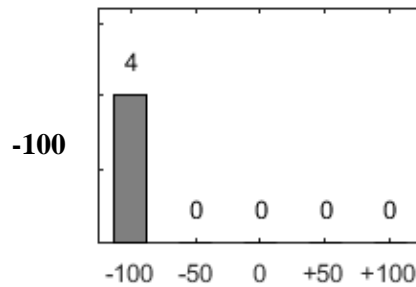
25. The teachers made it clear right from the start what they expected from the students



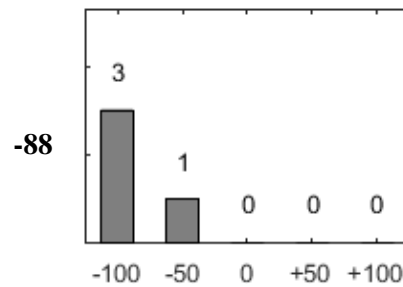
**Appropriate Assessment (+81)**

Question	CEQ-score	Histogram
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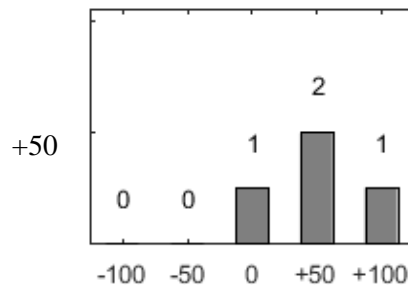
**8. To do well in this course all you really needed was a good memory**



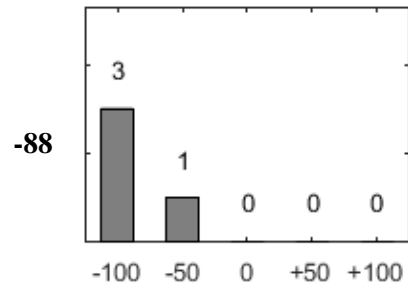
**12. The teachers seemed more interested in testing what I had memorised than what I had understood**



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



**20. Too much of the assessment was just about facts**



**Appropriate Workload (+63)**

Question	CEQ-score	Histogram												
<b>4. The workload has been much too heavy</b>	<b>-50</b>	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>1</td> </tr> <tr> <td>-50</td> <td>1</td> </tr> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>+50</td> <td>0</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	1	-50	1	0	1	+50	0	+100	0
Score	Count													
-100	1													
-50	1													
0	1													
+50	0													
+100	0													
14. I was generally given enough time to understand the things I had to learn	+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
Score	Count													
-100	0													
-50	0													
0	0													
+50	2													
+100	2													
22. There was a lot of pressure on me as a student in this course	-13	<table border="1"> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>-100</td> <td>1</td> </tr> <tr> <td>-50</td> <td>0</td> </tr> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>+50</td> <td>1</td> </tr> <tr> <td>+100</td> <td>0</td> </tr> </tbody> </table>	Score	Count	-100	1	-50	0	0	2	+50	1	+100	0
Score	Count													
-100	1													
-50	0													
0	2													
+50	1													
+100	0													
24. The sheer volume of work in this course made it impossible to comprehend everything thoroughly	-75	<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>2</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	2	-50	2	0	0	+50	0	+100	0
Score	Count													
-100	2													
-50	2													
0	0													
+50	0													
+100	0													



## Generic Skills (+47)

Question	CEQ-score	Histogram												
2. The course has developed my problem-solving skills	+50	<table border="1"> <caption>Histogram Data for Question 2</caption> <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>2</td></tr> <tr><td>+100</td><td>1</td></tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	1	+50	2	+100	1
Score	Count													
-100	0													
-50	0													
0	1													
+50	2													
+100	1													
5. The course has sharpened my analytic skills	+13	<table border="1"> <caption>Histogram Data for Question 5</caption> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr><td>-100</td><td>0</td></tr> <tr><td>-50</td><td>1</td></tr> <tr><td>0</td><td>2</td></tr> <tr><td>+50</td><td>0</td></tr> <tr><td>+100</td><td>1</td></tr> </tbody> </table>	Score	Count	-100	0	-50	1	0	2	+50	0	+100	1
Score	Count													
-100	0													
-50	1													
0	2													
+50	0													
+100	1													
9. The course helped me develop my ability to work in a group	+67	<table border="1"> <caption>Histogram Data for Question 9</caption> <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>1</td></tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	0	+50	2	+100	1
Score	Count													
-100	0													
-50	0													
0	0													
+50	2													
+100	1													
10. The course has made me feel more confident about tackling new and unfamiliar problems	+50	<table border="1"> <caption>Histogram Data for Question 10</caption> <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>2</td></tr> <tr><td>+50</td><td>0</td></tr> <tr><td>+100</td><td>2</td></tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	2	+50	0	+100	2
Score	Count													
-100	0													
-50	0													
0	2													
+50	0													
+100	2													
11. The course has improved my skills in written communication	+38	<table border="1"> <caption>Histogram Data for Question 11</caption> <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>3</td></tr> <tr><td>+100</td><td>0</td></tr> </tbody> </table>	Score	Count	-100	0	-50	0	0	1	+50	3	+100	0
Score	Count													
-100	0													
-50	0													
0	1													
+50	3													
+100	0													
23. The course has helped me to develop the ability to plan my work	+13	<table border="1"> <caption>Histogram Data for Question 23</caption> <thead> <tr> <th>Score</th> <th>Count</th> </tr> </thead> <tbody> <tr><td>-100</td><td>0</td></tr> <tr><td>-50</td><td>1</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>+50</td><td>2</td></tr> <tr><td>+100</td><td>0</td></tr> </tbody> </table>	Score	Count	-100	0	-50	1	0	1	+50	2	+100	0
Score	Count													
-100	0													
-50	1													
0	1													
+50	2													
+100	0													

## Free text answers

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

### What were the best aspects of the course

#### Satisfied students

The projects were very good examples of how we can apply the theory from the lectures.

#### Neutral students

#### Dissatisfied students

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

#### Satisfied students

#### Neutral students

It was a bit unclear what was expected during the oral/presentation. It would have been nice if it was stated somewhere that we would need to show the reports and possibly our codes on the beamer so we could have them ready to show on our laptop.

#### Dissatisfied students

Det behövs en tydlig övergripande kursplanering som förklarar de olika momenten som ingår i kursen och vad de innebär. Utöver det hade det underlättat om det fanns något sätt att bekräfta att man gjort rätt på de olika stegen i projekten. Alt. att man får svar på om det ser bra ut direkt efter att man lämnat in