Analysis of Bachelor degree project in Mathematics/Numerical Analysis MATK11/MASK11/NUMK11 Spring semester 2020

Number of Bachelor theses: 17

Number of questionnaires returned: 4

Report on the course evaluation: See separate file.

Summary of the course evaluation.
Most of the students answering appear to be satisfied with the thesis project.
The question "Overall, I am satisfied with the course" received an average
score of 4.3 out of 5.

Responsible and date of this summary: Arne Meurman, March 3, 2021.

Answer Count: 4

I have completed the Bachelor´s Degree Project within

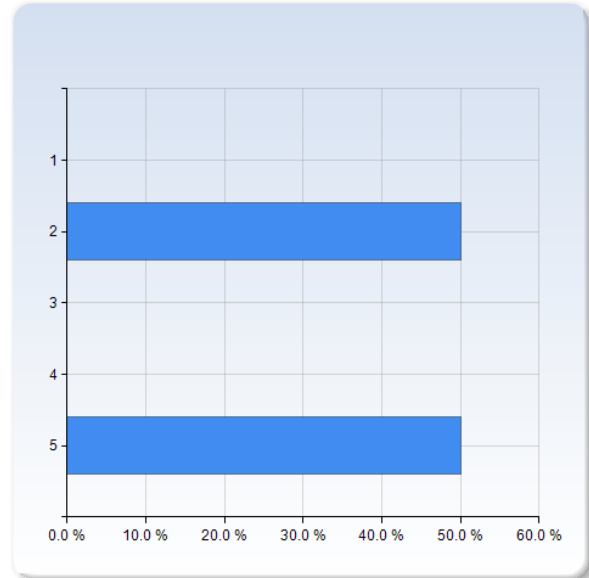| I have completed the Bachelor´s Degree Project within	Number of Responses
Mathematics (course code MATK11)	3 (75.0%)
Mathematical Statistics (course code MASK11)	1 (25.0%)
Numerical Analysis (course code NUMK11)	0 (0.0%)
Total	4 (100.0%)
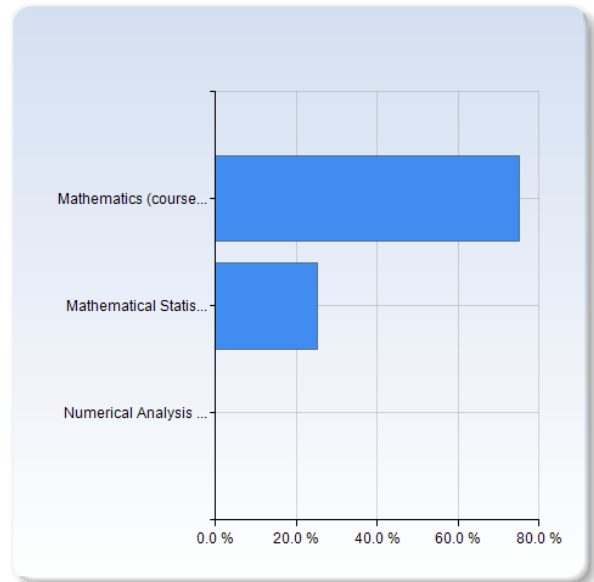
	Mean	Standard Deviation
I have completed the Bachelor´s Degree Project within	1.3	0.5

The Degree Project Course in General

On the scale 1-5 select the option that best matches your opinion: 1= disagree completely → 3= partly agree → 5= agree completely

### The information I received before the course start was satisfactory.

The information I received before the course start was satisfactory.	Number of Responses
1	0 (0.0%)
2	2 (50.0%)
3	0 (0.0%)
4	0 (0.0%)
5	2 (50.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The information I received before the course start was satisfactory.	3.5	1.7

The communication with the supervisor during the course was good.

| The communication with the supervisor during the course was good.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)
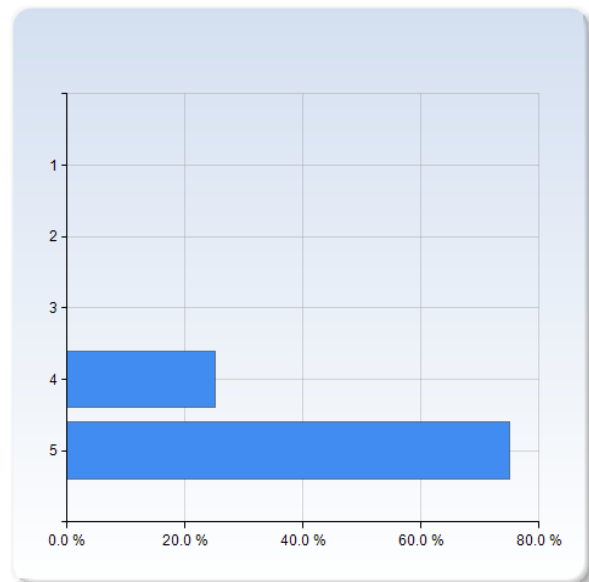
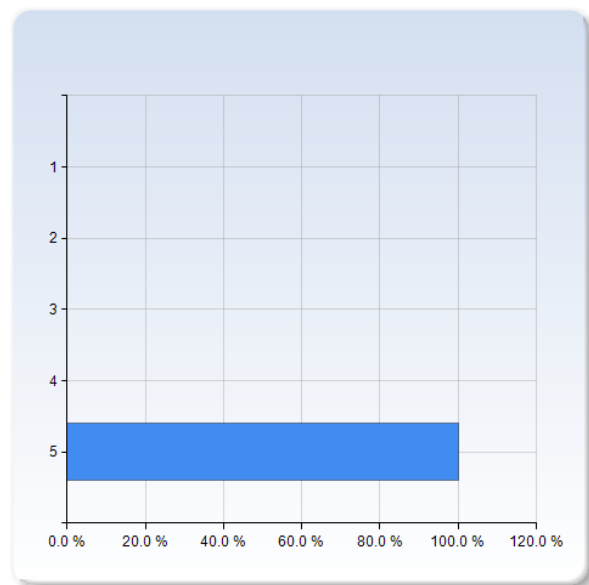|	Mean	Standard Deviation
The communication with the supervisor during the course was good.	4.8	0.5

The subject of the degree project suited my interests.

The subject of the degree project suited my interests.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)
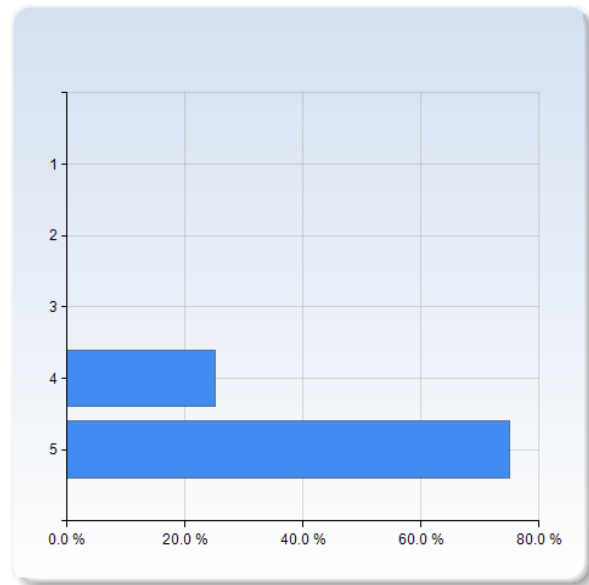
	Mean	Standard Deviation
The subject of the degree project suited my interests.	4.8	0.5

## The degree of difficulty of the project was reasonable.

The degree of difficulty of the project was reasonable.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	4 (100.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The degree of difficulty of the project was reasonable.	5.0	0.0

The overall workload has been reasonable.

The overall workload has been reasonable.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	4 (100.0%)
Total	4 (100.0%)
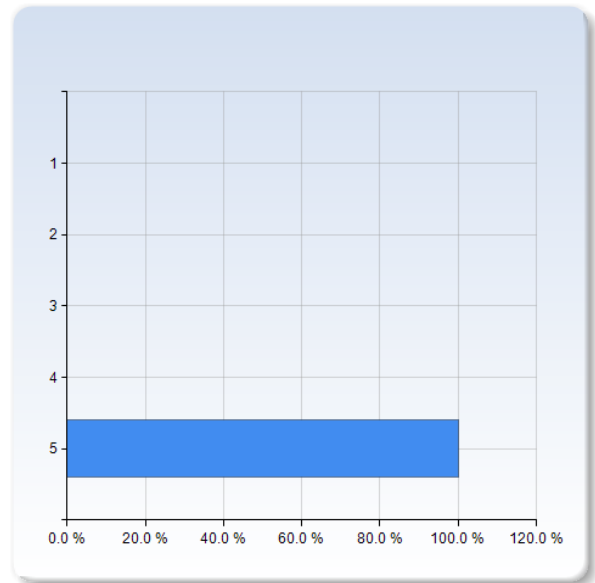
	Mean	Standard Deviation
The overall workload has been reasonable.	5.0	0.0

The workload was evenly distributed throughout the course.

The workload was evenly distributed throughout the course.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	4 (100.0%)
Total	4 (100.0%)
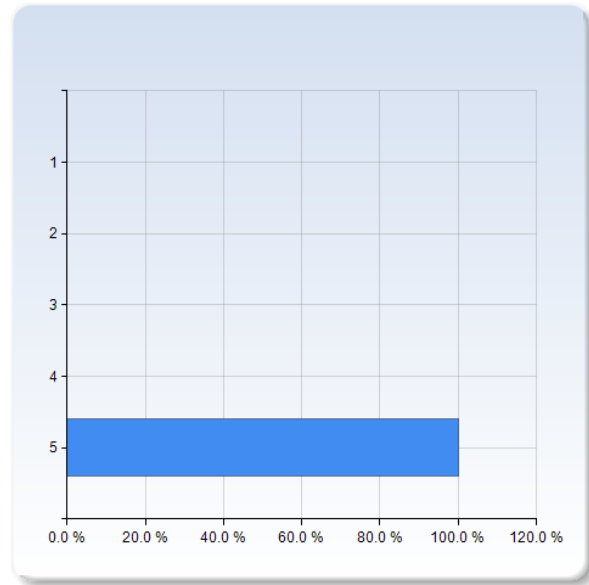
	Mean	Standard Deviation
The workload was evenly distributed throughout the course.	5.0	0.0

The suggested literature/material was a valuable learning resource.

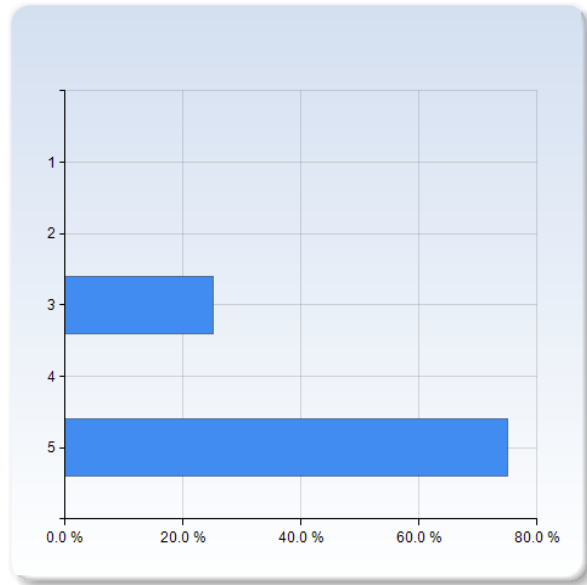| The suggested literature/material was a valuable learning resource.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)
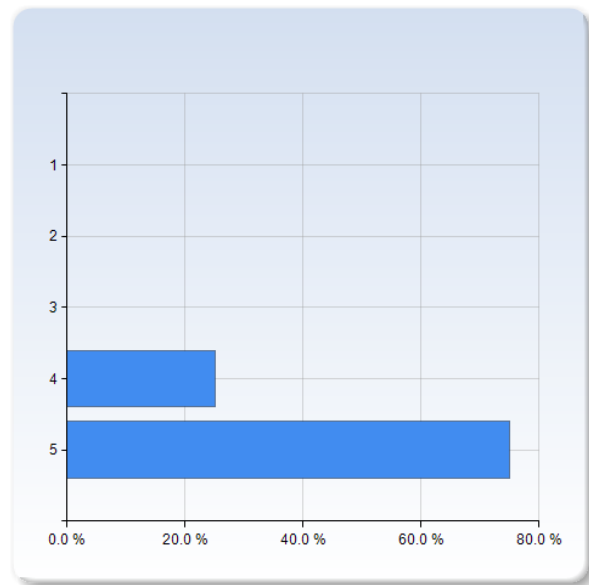
	Mean	Standard Deviation
The suggested literature/material was a valuable learning resource.	4.8	0.5

## The meetings with the supervisor have been valuable for my learning.

The meetings with the supervisor have been valuable for my learning.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The meetings with the supervisor have been valuable for my learning.	4.5	1.0

Studying on my own was valuable for my learning.

Studying on my own was valuable for my learning.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	4 (100.0%)
Total	4 (100.0%)
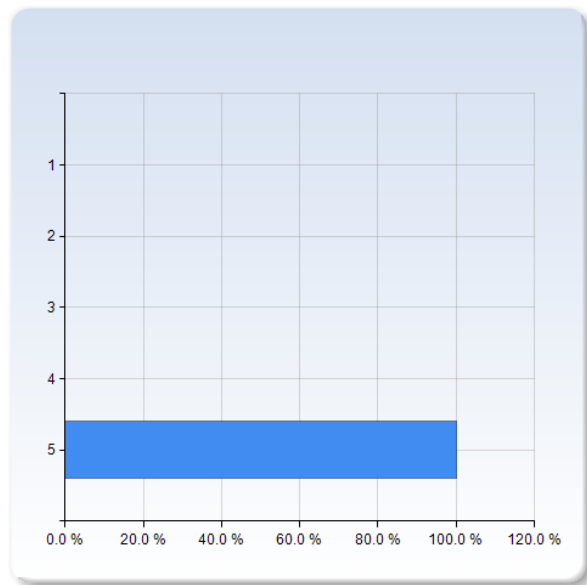
	Mean	Standard Deviation
Studying on my own was valuable for my learning.	5.0	0.0

It was clear throughout the course what was expected of me.

It was clear throughout the course what was expected of me.	Number of Responses
1	2 (50.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	2 (50.0%)
Total	4 (100.0%)
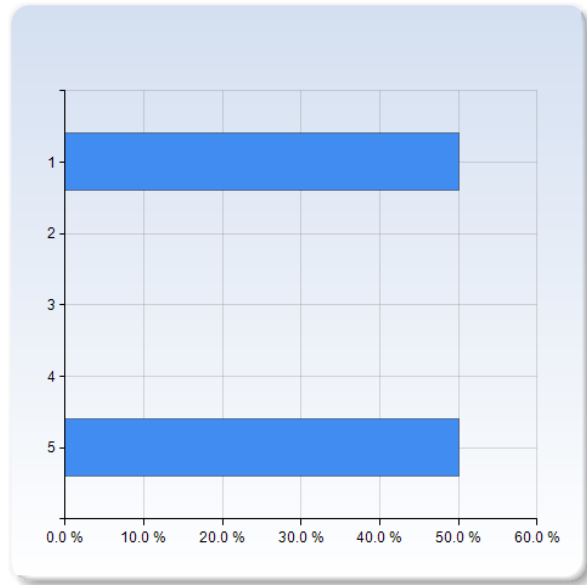
	Mean	Standard Deviation
It was clear throughout the course what was expected of me.	3.0	2.3

I have received valuable feedback from my supervisor during the course.

I have received valuable feedback from my supervisor during the course.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
I have received valuable feedback from my supervisor during the course.	4.8	0.5

## The supervisor has inspired and motivated me to do my best.

The supervisor has inspired and motivated me to do my best.	Number of Responses
1	0 (0.0%)
2	1 (25.0%)
3	0 (0.0%)
4	1 (25.0%)
5	2 (50.0%)
Total	4 (100.0%)
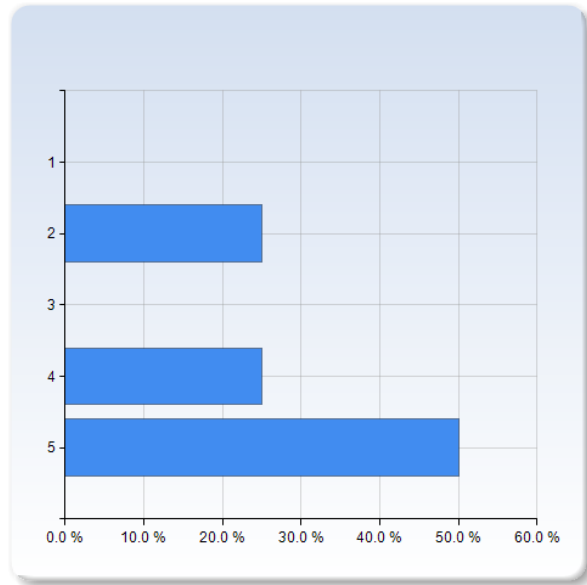
	Mean	Standard Deviation
The supervisor has inspired and motivated me to do my best.	4.0	1.4

The examination matched the contents and level of the course.

The examination matched the contents and level of the course.	Number of Responses
1	0 (0.0%)
2	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)
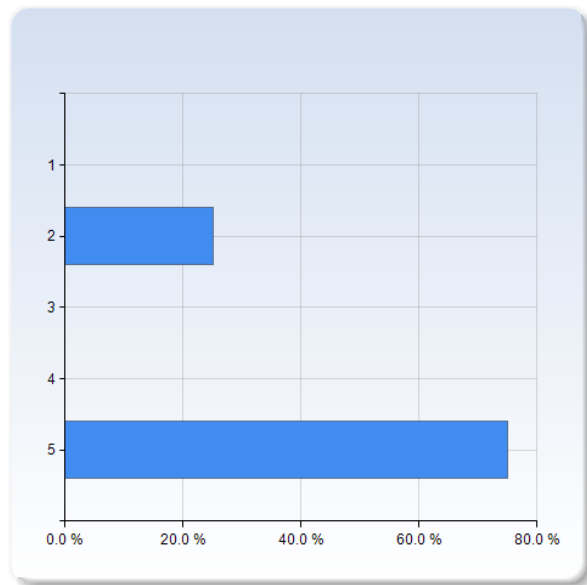
	Mean	Standard Deviation
The examination matched the contents and level of the course.	4.3	1.5

The way the course was organized suited me.

The way the course was organized suited me.	Number of Responses
1	0 (0.0%)
2	1 (25.0%)
3	1 (25.0%)
4	0 (0.0%)
5	2 (50.0%)
Total	4 (100.0%)
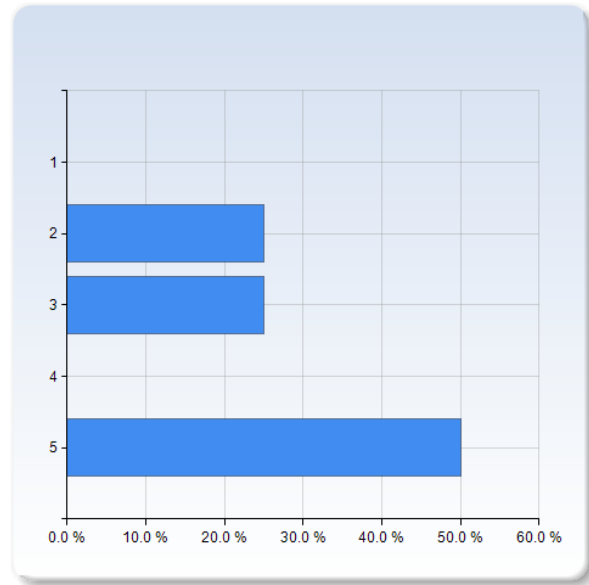
	Mean	Standard Deviation
The way the course was organized suited me.	3.8	1.5

The course met my expectations.

The course met my expectations.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	2 (50.0%)
4	0 (0.0%)
5	2 (50.0%)
Total	4 (100.0%)
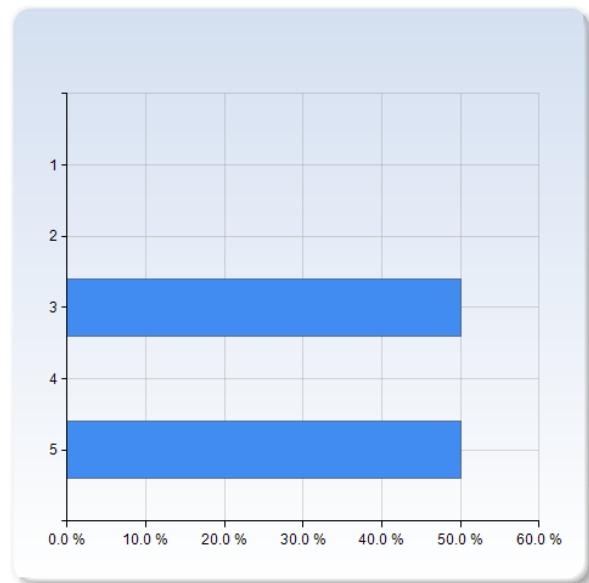
	Mean	Standard Deviation
The course met my expectations.	4.0	1.2

Overall, I am satisfied with the course.

| Overall, I am satisfied with the course.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	1 (25.0%)
5	2 (50.0%)
Total	4 (100.0%)
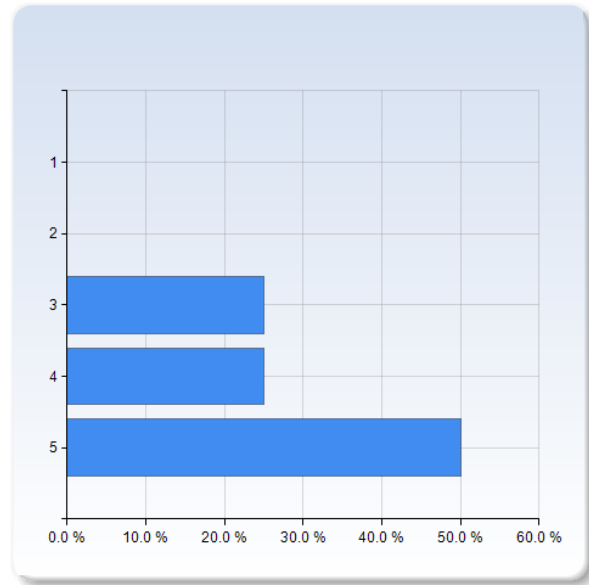
	Mean	Standard Deviation
Overall, I am satisfied with the course.	4.3	1.0

On the development of generic skills

On a scale 1-5 select the option that best matches your opinion: 1= disagree completely → 3= partly agree → 5= agree completely
The course has increased my ability to read a mathematical text.

The course has increased my ability to read a mathematical text.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)
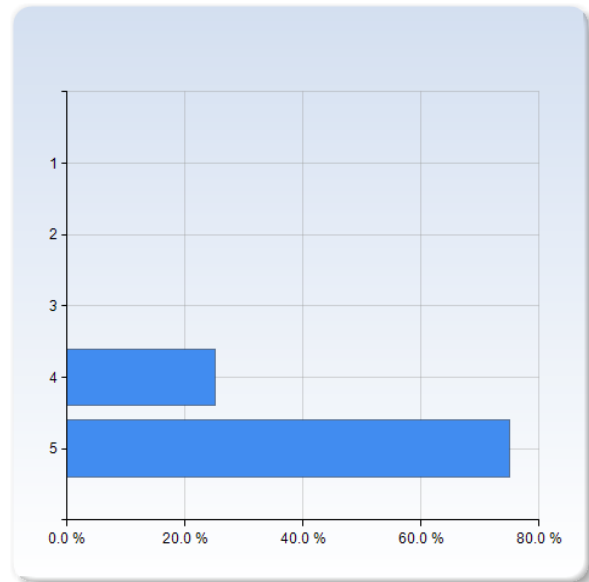
	Mean	Standard Deviation
The course has increased my ability to read a mathematical text.	4.8	0.5

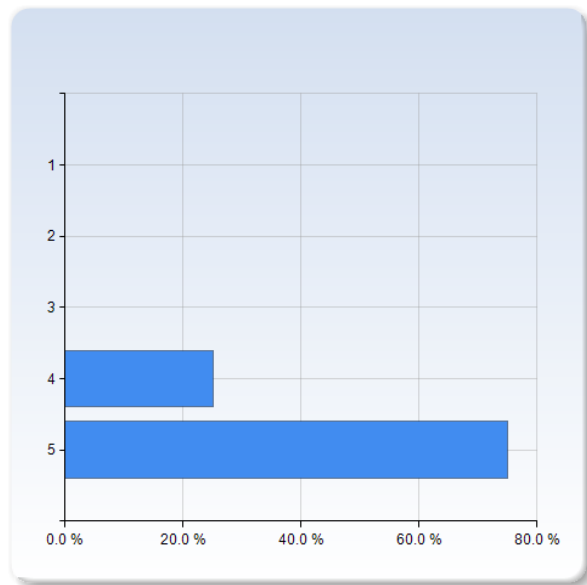## The course has increased my ability to communicate the subject in writing.

The course has increased my ability to communicate the subject in writing.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	4 (100.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to communicate the subject in writing.	5.0	0.0

The course has increased my ability to communicate the subject orally.
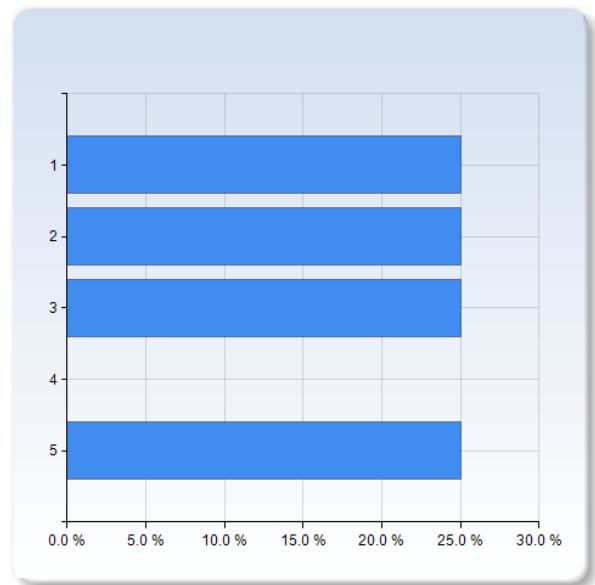
The course has increased my ability to communicate the subject orally.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to communicate the subject orally.	4.8	0.5

The course has increased my ability to cooperate.

The course has increased my ability to cooperate.	Number of Responses
1	1 (25.0%)
2	1 (25.0%)
3	1 (25.0%)
4	0 (0.0%)
5	1 (25.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to cooperate.	2.8	1.7

The course has increased my ability to search and process information.

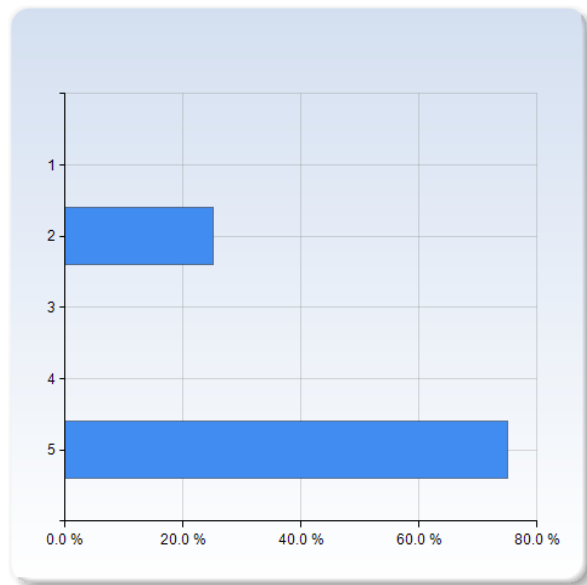| The course has increased my ability to search and process information.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	1 (25.0%)
5	2 (50.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to search and process information.	4.3	1.0

The course has increased my ability to analyze and solve problems.

The course has increased my ability to analyze and solve problems.	Number of Responses
1	0 (0.0%)
2	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to analyze and solve problems.	4.3	1.5

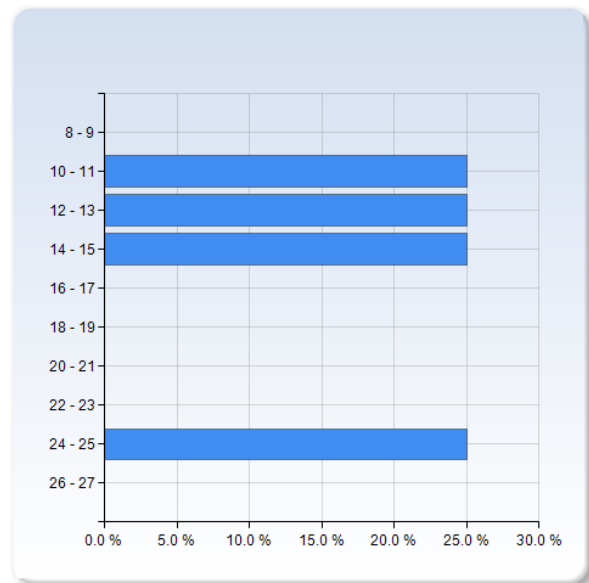## As a result of this course, I feel confident about tackling unfamiliar problems.

As a result of this course, I feel confident about tackling unfamiliar problems.	Number of Responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	1 (25.0%)
5	2 (50.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
As a result of this course, I feel confident about tackling unfamiliar problems.	4.3	1.0

Average number of hours spent in total on the course per week (including scheduled activities):

Average number of hours spent in total on the course per week (including scheduled activities):	Number of Responses
8 - 9	0 (0.0%)
10 - 11	1 (25.0%)
12 - 13	1 (25.0%)
14 - 15	1 (25.0%)
16 - 17	0 (0.0%)
18 - 19	0 (0.0%)
20 - 21	0 (0.0%)
22 - 23	0 (0.0%)
24 - 25	1 (25.0%)
26 - 27	0 (0.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
Average number of hours spent in total on the course per week (including scheduled activities):	15.5	6.7

What did you appreciate most with the course?

What did you appreciate most with the course?

The satisfaction and fascination of going deep into a subject and as a result knowing it well.

The weekly meetings with my supervisor (before the covid19).

A very nice introduction to academic writting in science, I like it. Tons of examples are included (both postive and negative). The discussions are overall full of joy.

Which part/parts of the joint course activities and tasks were most useful to you?

Which part/parts of the joint course activities and tasks were most useful to you?

The parts where other students shared their thoughts and struggles with the course

I do not want to be negative, but I did not enjoy the joint meetings. I mostly felt they took up time I rather would spend working.

The part of constructing an good introduction, of citation, of details in mathematical wrtting.

Have the joint activities and tasks within the Bachelor course made your work with writing your thesis easier? If so, in what way?

Have the joint activities and tasks within the Bachelor course made your work with writing your thesis easier? If so, in what way?

They helped me understand that I could write in my taste, and not necessarily in that of my supervisor

Not really. I did not feel like the difficulties I encountered during the writing was adressed during the meetings.

Yes, these activities have indeed help my thesis writting. They planted some important ideas in the early phrase so that I can always use these ideas to check my writting as I proceeded along.

What do you think should be improved? Any suggestions of what to add?

What do you think should be improved? Any suggestions of what to add?

The joint parts would greatly improved if they were more prepared and not so wide in terms of their scope

I would have liked more concrete advise. How do you organize your LaTex file in the best way, and other typesetting tips.

In my humble opinion, the information about the writting format is poor. An instruction of font, margins, linespace, citation style e.t.c would be needed. There are some peer stress going on, I think it is healthy competition, but sometimes I felt bad for the mathmatical part presented in my thesis are less sophisticated (which made me worry that I was not going to pass the course). I am trying to say that students are generally confused of the degrees of mathematics that should be involved. The syllabuss is extremly clear about the learning outcomes to be examined, not the level of knowledge though. Yet it is very hard to come up with an criterion for that, I know, I am just venting out some of my complaints. In general I consider this course is helpful and I am satisfied by what I achieved.

Have you during this course experienced course literature, staff or teaching methods to be discriminatory in any way (gender, ethnicity, etc.)?

Have you during this course experienced course literature, staff or teaching methods to be discriminatory in any way (gender, ethnicity, etc.)?

No

No way at all. :)

I don't think so, but thanks for asking :)

Regarding the Bachelor´s Programme.

Have you experienced any unnecessary overlap between courses during your bachelor's education? If so, describe in what way and between which courses?

Regarding the Bachelor´s Programme.

Have you experienced any unnecessary overlap between courses during your bachelor's education? If so, describe in what way and between which courses?

No.

Oh yes! For example this term (spring 2020) I have three courses overlapping in two days of a week (two of them are selective so I guess there is not much the department can do). BUT, THANKS TO THE DISTANt EDUCATION I WAS ABLE TO MANAGE THEM WELL. I SINCERELY THANK THE UNIVERSITY FOR HAVING RECORDED LECTURES ONLINE OTHERWISE I WOULD NEVER HAVE MANAGED THAT. (I put it in captial letters because it is important to let the school know there are students like me that appreciate distant education a lot. I hope we can keep this even after the Covid-19 is over)

Have you acquired sufficient knowledge in your subject during your education?

Have you acquired sufficient knowledge in your subject during your education?

Overall I'd say yes

Yes. I would have liked the opportunity for more algebra courses though.

The education in Bachelor just makes me realize how little I know about my subject(s), I will continue study.

Have you acquired sufficient generic skills (i.e. ability to write scientifically, to write popular scientifically, to oral presentations, to work with computers etc.) during your education?

Have you acquired sufficient generic skills (i.e. ability to write scientifically, to write popular scientifically, to oral presentations, to work with computers etc.) during your education?

Yes

Not really enough typesetting practice. But it went fine still.

Yes, I agree with that.

These are the advantages of the education:

These are the advantages of the education:

It is difficult so you learn to face challenges. You also learn how to think in new, very different ways, which is rewarding and useful

Pretty much everything.

Working individually and collaboratively

Various of skills in using computer

Provide solid background for different areas of mathematics

Thinking rationally and logically

A different perspective of cognition

The following aspects of the education need improvement:

The following aspects of the education need improvement:

It would benefit from having more things scheduled, not just lectures, and perhaps more group projects. However, group projects should not be just added to the usual workload. If they are to be added, something needs to be taken away.
It would also greatly benefit the students if there were elements were they got to learn about math and about studying math, as well as what people do with it after University.

I can't think of any (except more algebra courses).

Too short

pls more courses in stochastic processes

Some courses are so hard I think them belong to MATM rather than MATC, e.g, optimization

What is your general opinion about the education?

What is your general opinion about the education?

It is difficult. You will study alone a lot. There are few structured things to help you learn outside of lectures. There are almost no social events structured directly connected to the education, it must be sought elsewhere. Very hard to make friends.

Overall, I can't say I think of it fondly as a whole, and now, after having completed my Bachelor, I will at least temporarily move away from math to study other things.

A happy opinion.

I will recommend it to my friends, as I did already.