



**LUND**  
UNIVERSITY

Centre for Mathematical Sciences  
Mathematics, Faculty of Science

Centre for Mathematical Sciences  
Division of Mathematics and Numerical Analysis

## Course Analysis for MATM35 Number Theory, Autumn 2023

### Course Information

**Lecturer:** Gustavo Jasso

**Teaching assistants:** None.

**Number of students:** 13 newly registered and 3 re-registered.

1 student answered the course evaluation, and they are enrolled on the Bachelor's Programme in Mathematics.

### Examination

**Written assignment:** 13 newly registered students passed and 1 re-registered student passed.

**Oral examination:** 12 newly registered students passed and 1 re-registered student passed.

**Written examination:** 12 newly registered students passed and 1 re-registered student passed.

- Ordinary examination 27/10 2023: 13 students participated and 12 of them passed.
- Resit examination 25/11 2023: 3 students participated and 1 of them passed.

### Final grades

In all, 13 students have got their final grade.

9 passed with distinction.

4 passed.

### Course Evaluation

#### Summary of student's answers:

The only student that answered the course evaluation had a positive opinion of the course.

#### Teachers' comments:

This iteration, particular effort was made to encourage students to present their own solutions, and this was largely successful (although not all students attended the seminars). This was achieved by informing the students of this in advance, and also by trying to create a relaxed atmosphere during the seminars. Otherwise, the same comments from the previous course iteration apply, and are included here for ease of reference: The course was taught during the first period of the Autumn term. The lectures took place twice per week, for a total of 15

lectures. The seminars were scheduled in consultation with the students, where the solutions to the homework problems were discussed. The course was administered through Canvas, where handwritten lecture notes and additional material was posted before each lecture. The course included a written assignment that consisted on a short report of the ElGamal cryptosystem and its implementation in Python; the students were allowed to work in pairs in order to improve their collaboration skills.

**Changes from the previous course realisation:**

There were no changes.

**Suggestions for the next course realisation:**

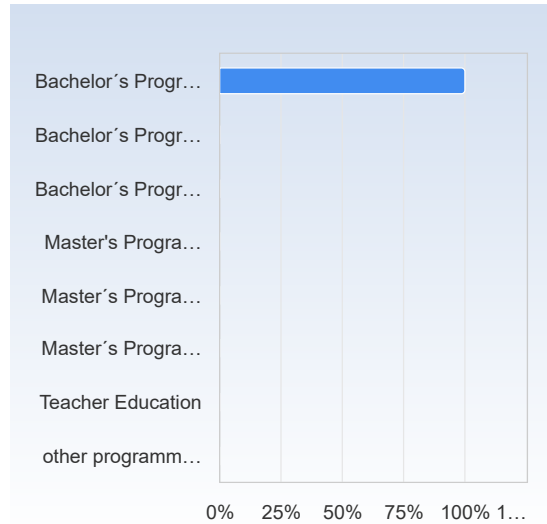
The seminars should be scheduled in TimeEdit since the beginning of the period. The seminar should be re-structured to increase student participation. Also, 15 teaching sessions are sufficient to cover the contents of the course, which is something that can be taken into account when scheduling future iterations.

## MATM35 Number theory HT23

Answer Count: 1

### I have studied this course as part of

I have studied this course as part of	Number of responses
Bachelor's Programme in Mathematics	1 (100.0%)
Bachelor's Programme in Physics, Theoretical Physics, Astronomy	0 (0.0%)
Bachelor's Programme, other specialization	0 (0.0%)
Master's Programme in Mathematics	0 (0.0%)
Master's Programme in Mathematical Statistics	0 (0.0%)
Master's Programme, other specialization	0 (0.0%)
Teacher Education	0 (0.0%)
other programme or as stand alone course	0 (0.0%)
Total	1 (100.0%)

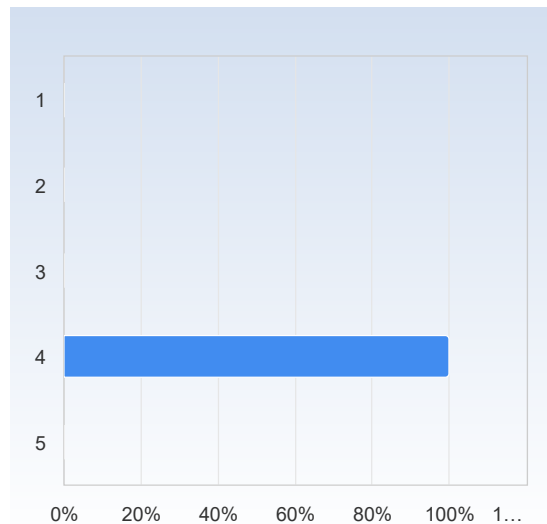


	Mean	Standard Deviation
I have studied this course as part of	1.0	0.0

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

### 2. My prior knowledge has been sufficient to assimilate the contents of this course.

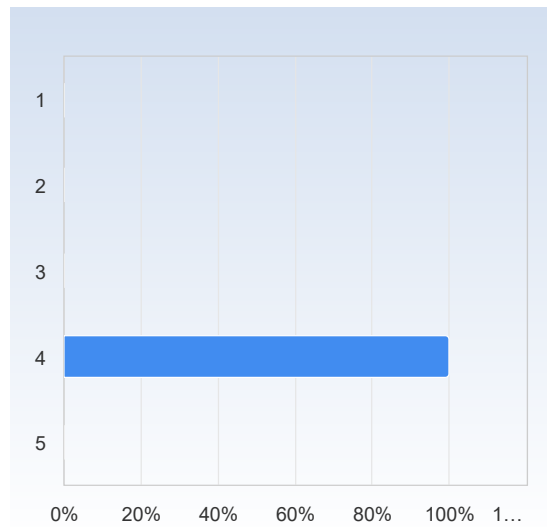
2. My prior knowledge has been sufficient to assimilate the contents of this course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (100.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
2. My prior knowledge has been sufficient to assimilate the contents of this course.	4.0	0.0

### 3. I have participated actively in the course.

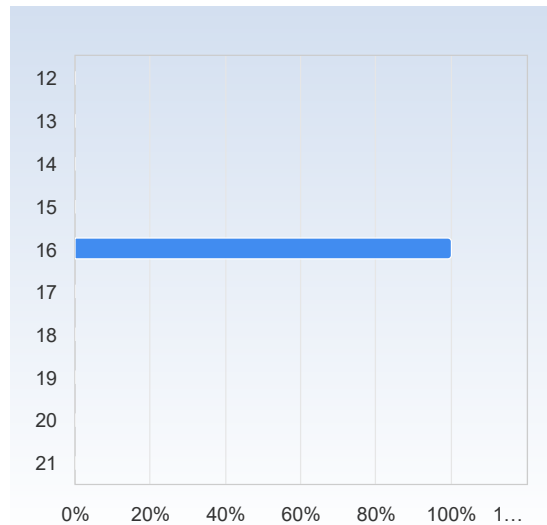
3. I have participated actively in the course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (100.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
3. I have participated actively in the course.	4.0	0.0

### 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
12	0 (0.0%)
13	0 (0.0%)
14	0 (0.0%)
15	0 (0.0%)
16	1 (100.0%)
17	0 (0.0%)
18	0 (0.0%)
19	0 (0.0%)
20	0 (0.0%)
21	0 (0.0%)
Total	1 (100.0%)



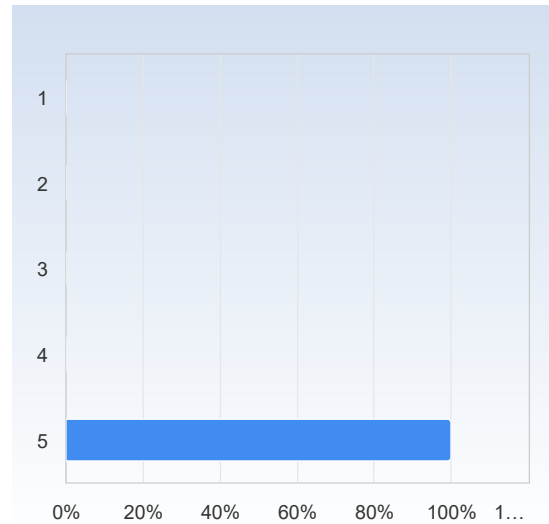
	Mean	Standard Deviation
Average number of hours spent in total on the course per week (including scheduled activities):	16.0	0.0

## The 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 way the course was taught and organised suited me.

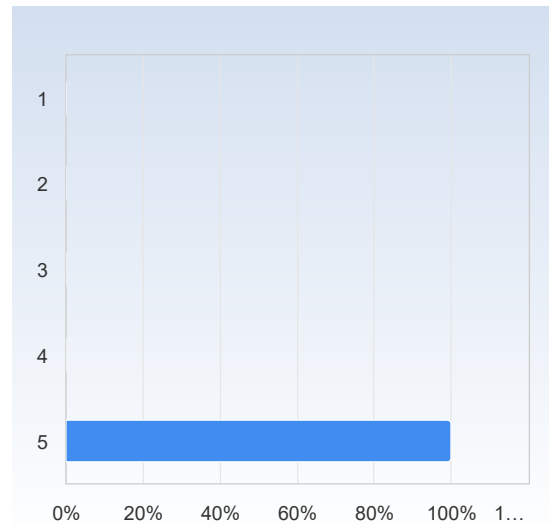
The way the course was taught and organised suited me.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The way the course was taught and organised suited me.	5.0	0.0

The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.

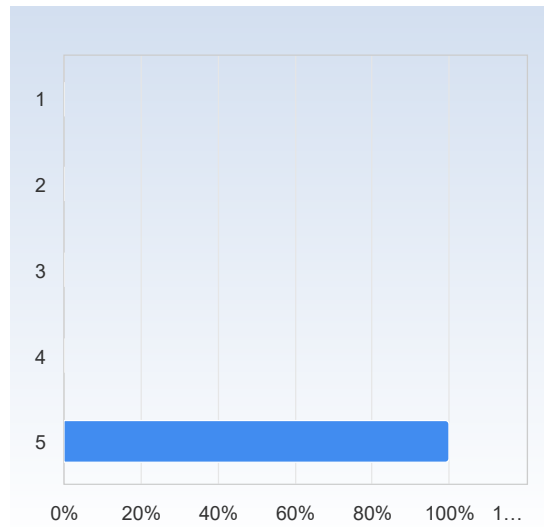
The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.	5.0	0.0

**The lectures were valuable for my learning.**

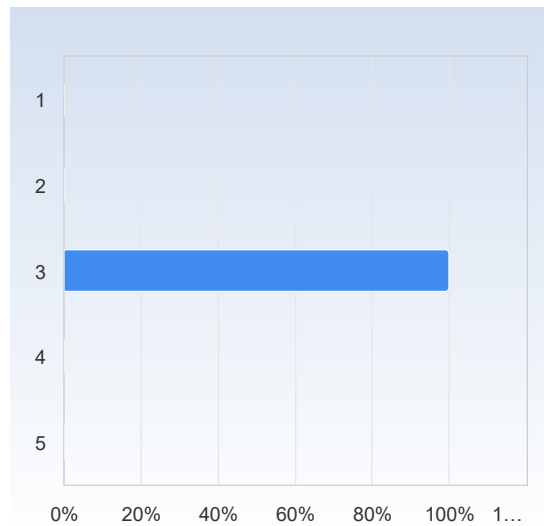
The lectures were valuable for my learning.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The lectures were valuable for my learning.	5.0	0.0

**The seminars were valuable for my learning.**

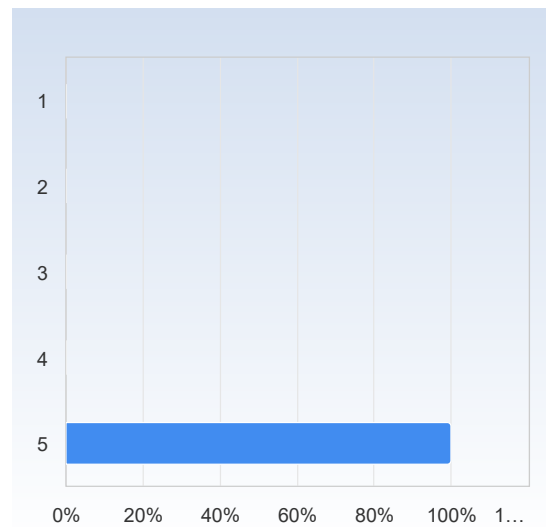
The seminars were valuable for my learning.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (100.0%)
4	0 (0.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The seminars were valuable for my learning.	3.0	0.0

**Studying on my own was valuable for my learning.**

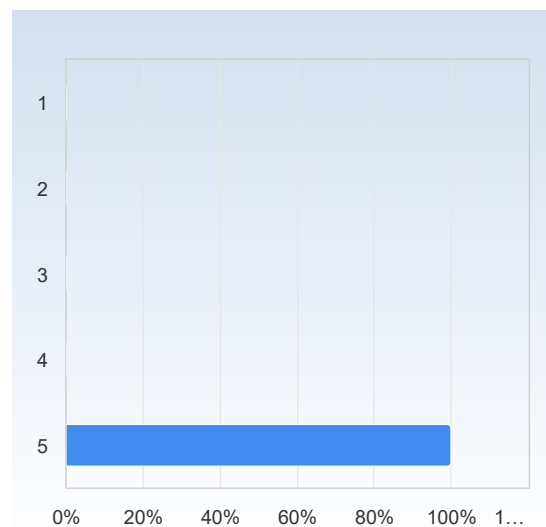
Studying on my own was valuable for my learning.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
Studying on my own was valuable for my learning.	5.0	0.0

**The course literature/material was a valuable learning resource.**

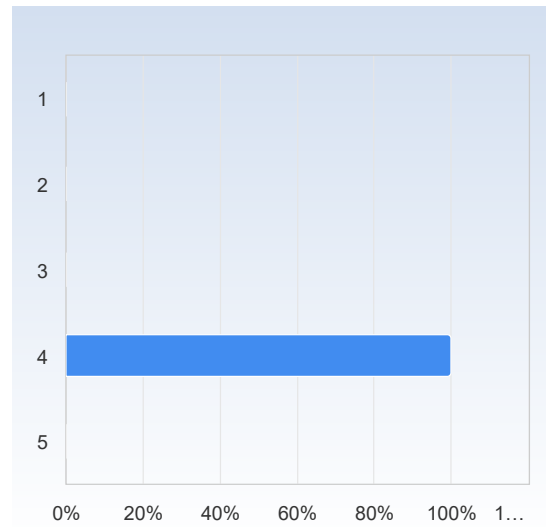
The course literature/material was a valuable learning resource.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The course literature/material was a valuable learning resource.	5.0	0.0

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

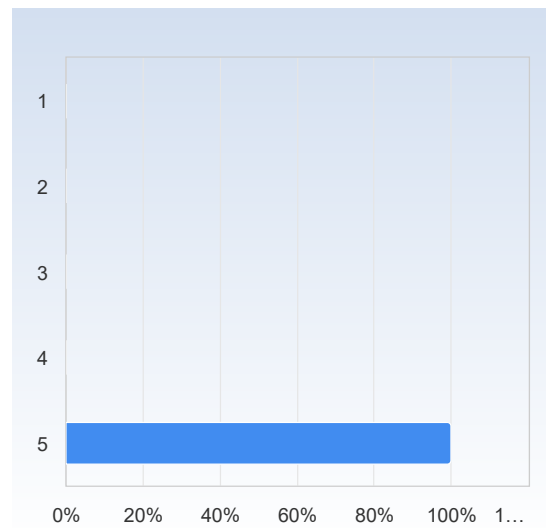
The information I received before the course start was satisfactory.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (100.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The information I received before the course start was satisfactory.	4.0	0.0

**The communication with the teaching staff during the course was good.**

The communication with the teaching staff during the course was good.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)

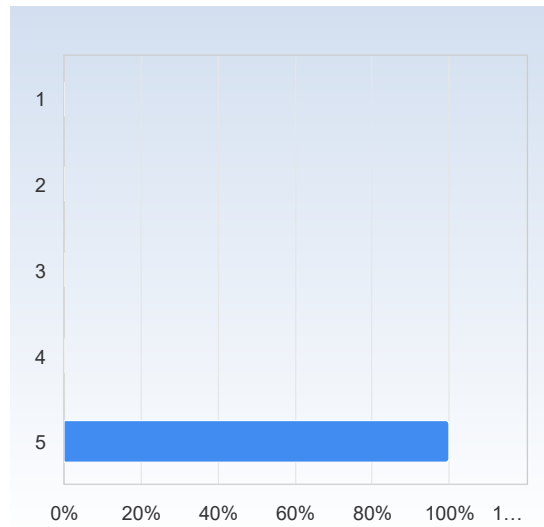


	Mean	Standard Deviation
The communication with the teaching staff during the course was good.	5.0	0.0



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

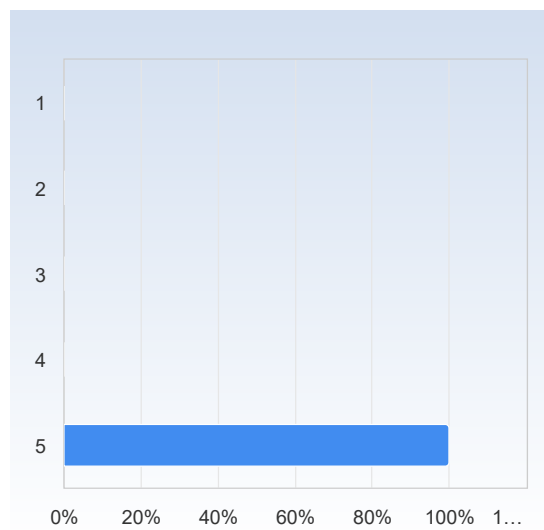
It was clear throughout the course what was expected of me.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
It was clear throughout the course what was expected of me.	5.0	0.0

**I have received valuable feedback from my teacher/teachers during the course.**

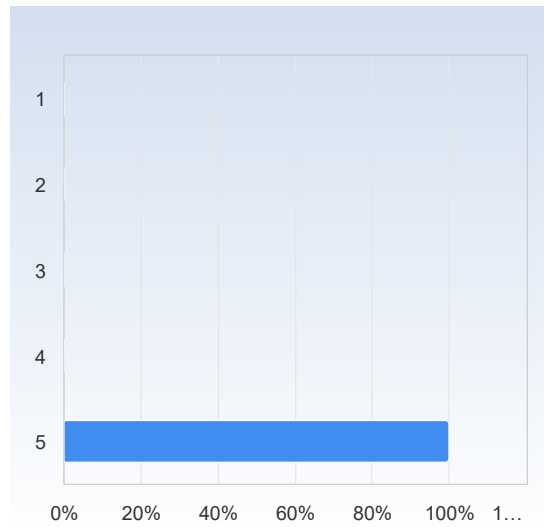
I have received valuable feedback from my teacher /teachers during the course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
I have received valuable feedback from my teacher/teachers during the course.	5.0	0.0

**The course had a reasonable workload.**

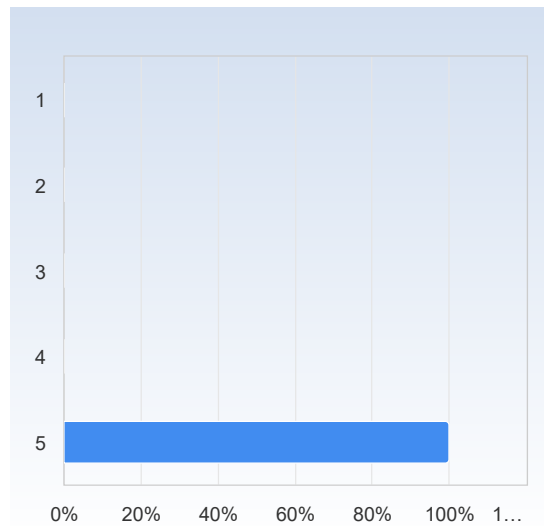
The course had a reasonable workload.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The course had a reasonable workload.	5.0	0.0

**The workload was evenly distributed throughout the course.**

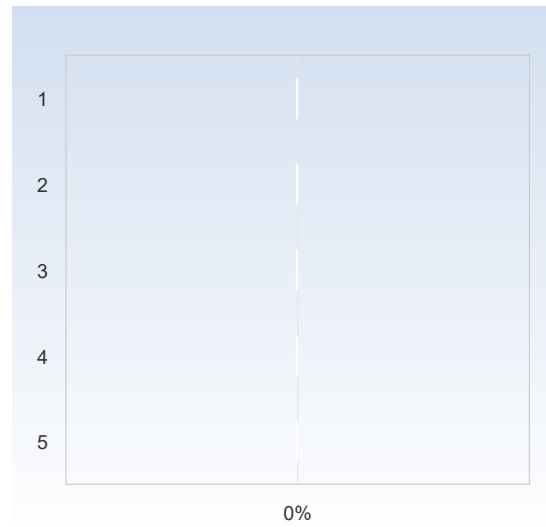
The workload was evenly distributed throughout the course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The workload was evenly distributed throughout the course.	5.0	0.0

**The examination matched the contents and level of the course.**

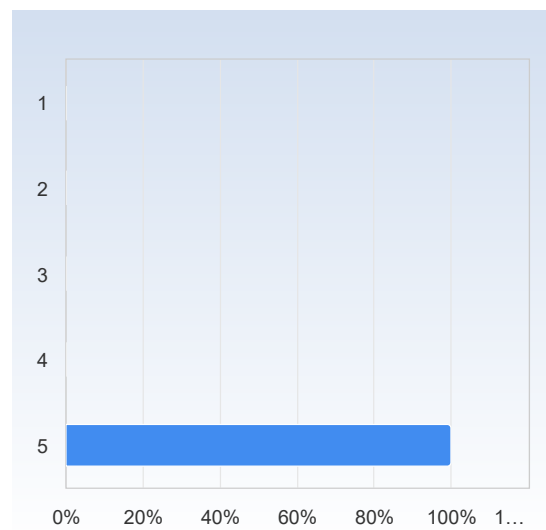
The examination matched the contents and level of the course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	0 (0.0%)
Total	0 (0.0%)



	Mean	Standard Deviation
The examination matched the contents and level of the course.	0.0	0.0

**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	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



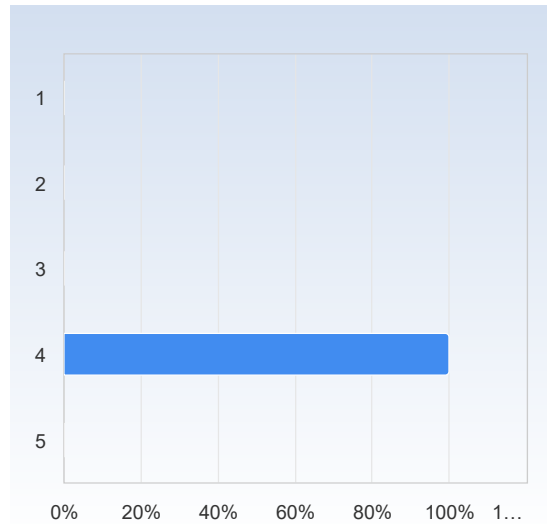
	Mean	Standard Deviation
Overall, I am satisfied with the course.	5.0	0.0

## 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.

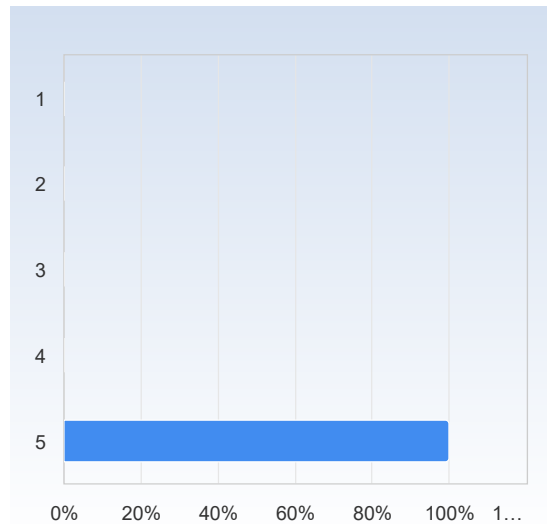
The course has increased my ability to read a mathematical text.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (100.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to read a mathematical text.	4.0	0.0

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

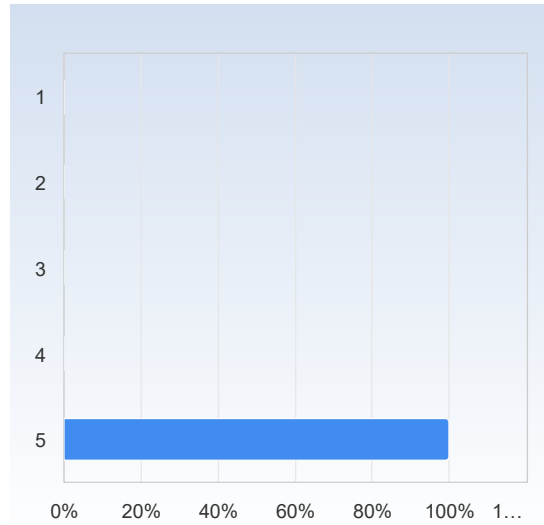
The course has increased my ability to communicate the subject in writing.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	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.**

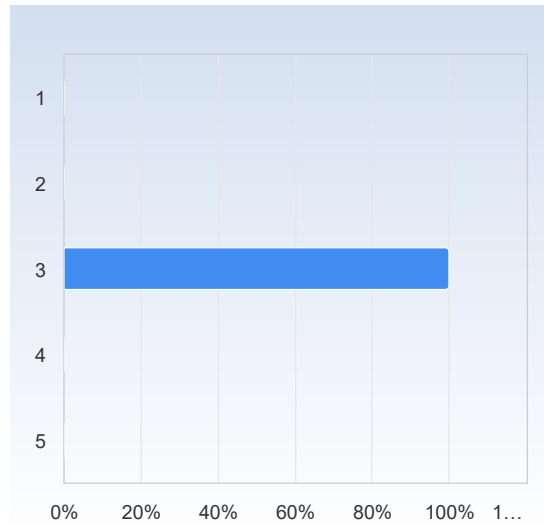
The course has increased my ability to communicate the subject orally.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



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

**The course has increased my ability to cooperate.**

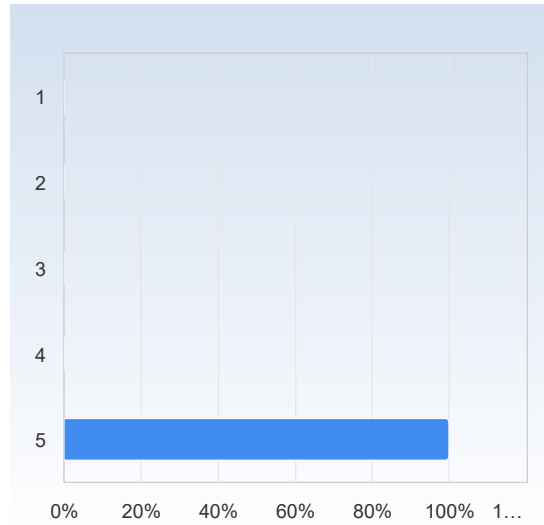
The course has increased my ability to cooperate.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (100.0%)
4	0 (0.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to cooperate.	3.0	0.0

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

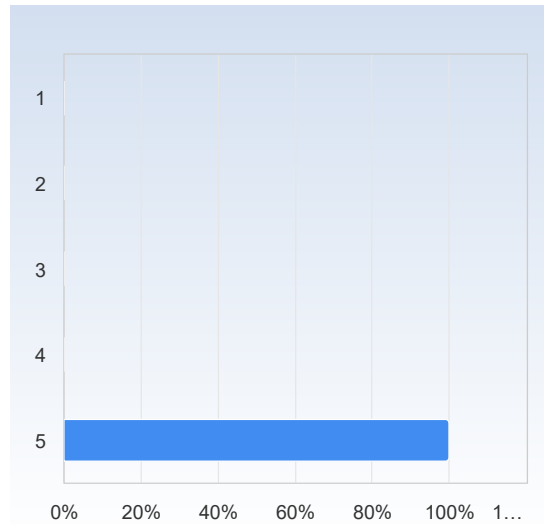
The course has increased my ability to search and process information.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to search and process information.	5.0	0.0

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

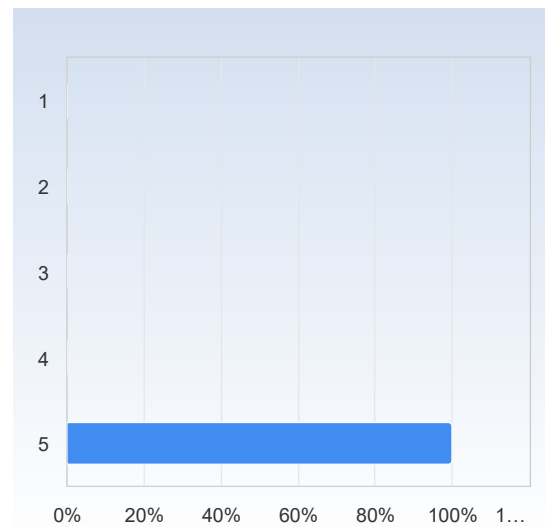
The course has increased my ability to analyze and solve problems.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to analyze and solve problems.	5.0	0.0

**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	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
As a result of this course, I feel confident about tackling unfamiliar problems.	5.0	0.0

**What did you appreciate most with the course?**

What did you appreciate most with the course?  
 The teaching was well structured and well presented. Very good lectures

**What do you think should be improved?**

What do you think should be improved?  
 In rare moments it difficult to read the writing in the lectures. Though there were always very well written lecture notes that were published before the lectures so this is not really a problem

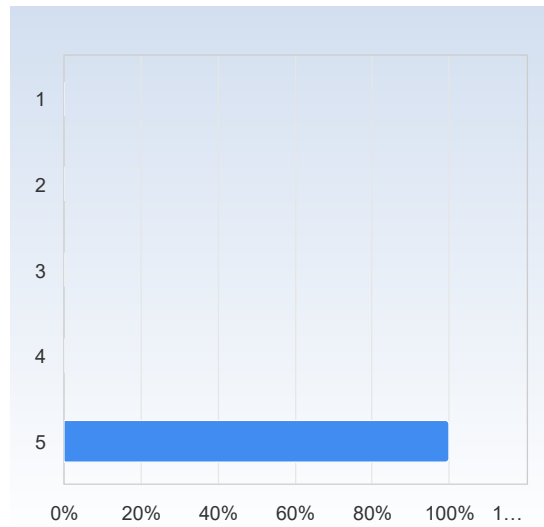
**Have you during this course experienced course literature, staff or teaching methods to be discriminatory in any way (gender, ethnicity, etc.)?**

Have you during this course experienced course literature, staff or teaching methods to be discriminatory in any way (gender, ethnicity, etc.)?  
 Not at all

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

**The written assignment was valuable for my learning**

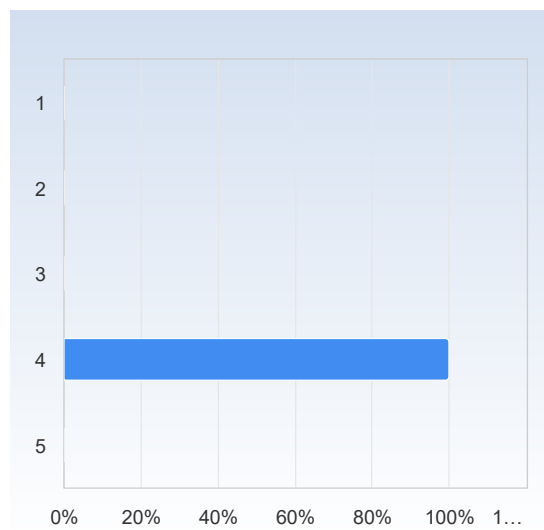
The written assignment was valuable for my learning	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The written assignment was valuable for my learning	5.0	0.0

**The seminars were valuable for my learning**

The seminars were valuable for my learning	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (100.0%)
5	0 (0.0%)
Total	1 (100.0%)

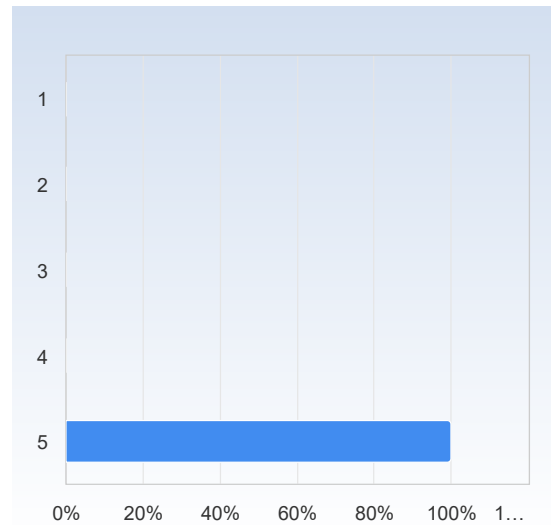


	Mean	Standard Deviation
The seminars were valuable for my learning	4.0	0.0



### The extra notes were valuable for my learning

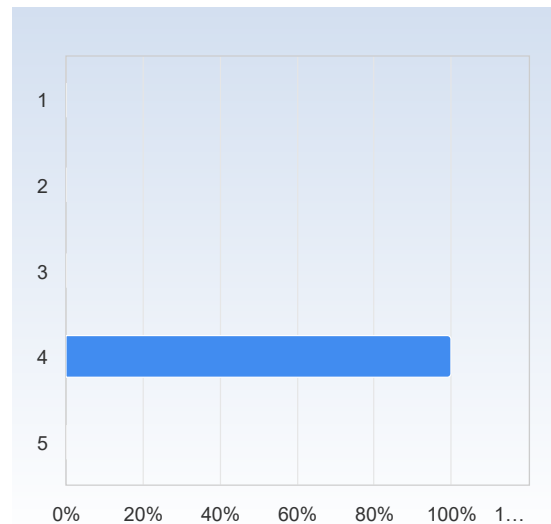
The extra notes were valuable for my learning	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (100.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The extra notes were valuable for my learning	5.0	0.0

### The complementary readings were valuable for my learning

The complementary readings were valuable for my learning	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (100.0%)
5	0 (0.0%)
Total	1 (100.0%)



	Mean	Standard Deviation
The complementary readings were valuable for my learning	4.0	0.0

### Comments on the written assignment and the seminars

Comments on the written assignment and the seminars
It was very interesting to get a more applied example of the material

### Comments on the extra notes and the complementary readings