



LUNDS  
UNIVERSITET

Matematikcentrum

Matematik NF

## Course Analysis for Ordinary Differential Equations II (MATM37) Spring 2023

**Lecturer:** Jörg Weber

**Teaching assistant:** Jonathan Holmquist

**Number of students:** There were 18 registered students.

### Examination

6 students participated in the ordinary written examination (5 credits) and 4 of them passed.

4 students participated in the oral exam (2 credits) after the ordinary written examination and 4 of them passed.

4 students participated in the resit examination and 4 of them passed.

4 students participated in the oral exam after the resit examination and 4 of them passed.

8 students completed the compulsory assignment (0.5 credits).

8 students have passed all examination parts, 5 of them with the grade *pass with distinction*.

### Course evaluation

**Summary of students answers:** 5 students answered the course evaluation questionnaire that was open during six weeks, starting three days after the ordinary written examination. The students answers are summarised in the following pages. The majority of the students seems to be satisfied with how the course was taught and organised.

**Teacher's comments:** The course book is very good to follow and covers all of the material in the syllabus. Thus, the course both as a teacher and probably also as a student was "quite straightforward", as one student puts it in the evaluation. On the other hand, I sometimes had the impression that the covered material was a bit too easy for a course on Master level, and maybe some parts would fit better into a Bachelor course. Additionally to the course book, I wrote and uploaded lecture notes that follow the book quite closely, but include also different aspects and examples from time to time.

**Changes from the previous course realisation:** I did not change the contents of the course very much, maybe only slightly – the covered material is after all precisely two chapters in the course book, so there are naturally no big changes compared to previous realisations.

**Suggestions for the next course realisation:** In all, I would leave it as it is. If one expects time problems, the part about an abstract spectral theorem for boundary value problems can maybe be left out since it fits into or appears as an application in some course on functional analysis anyway.

### Course leader, date

Jörg Weber, May 5, 2023.

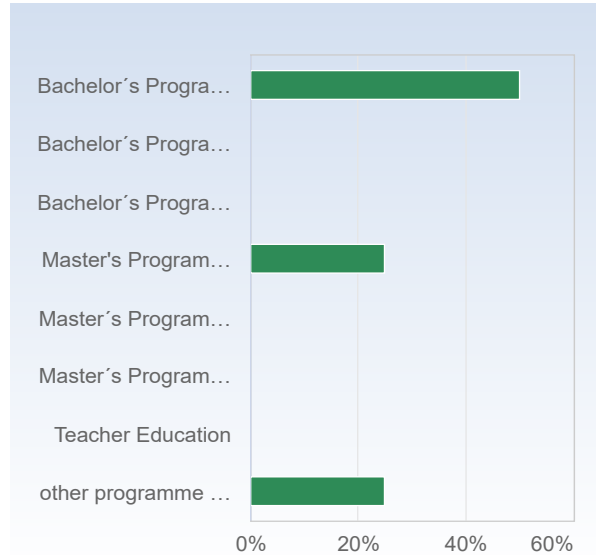
# MATM37 - Ordinary Differential Equations II

## Spring 2023

Answer Count: 5

### I have studied this course as part of

I have studied this course as part of	Number of responses
Bachelor's Programme in Mathematics	2 (50.0%)
Bachelor's Programme in Physics, Theoretical Physics, Astronomy	0 (0.0%)
Bachelor's Programme, other specialization	0 (0.0%)
Master's Programme in Mathematics	1 (25.0%)
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	1 (25.0%)
<b>Total</b>	<b>4 (100.0%)</b>

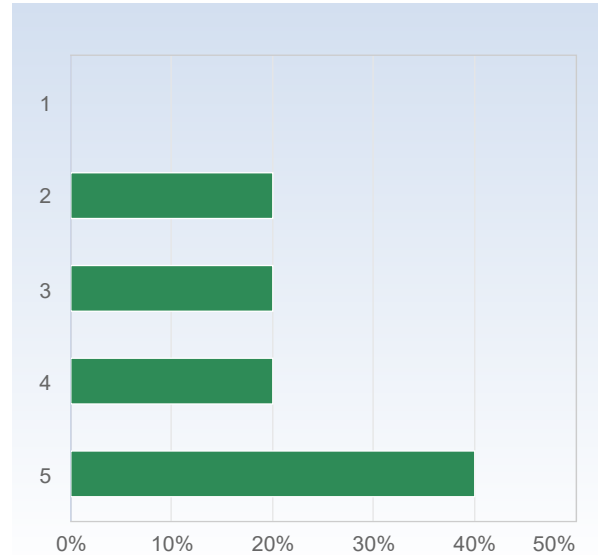


	Mean	Standard Deviation
I have studied this course as part of	3.5	3.3

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

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

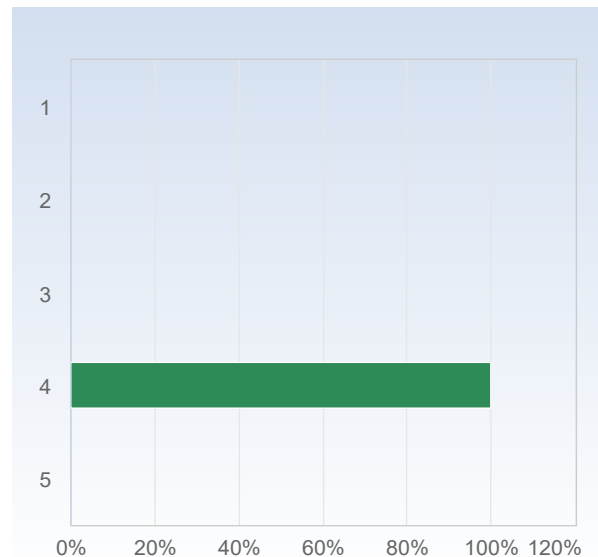
My prior knowledge has been sufficient to assimilate the contents of this course.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	1 (20.0%)
5	2 (40.0%)
Total	5 (100.0%)



My prior knowledge has been sufficient to assimilate the contents of this course.	Mean	Standard Deviation
	3.8	1.3

**I have participated actively in the course.**

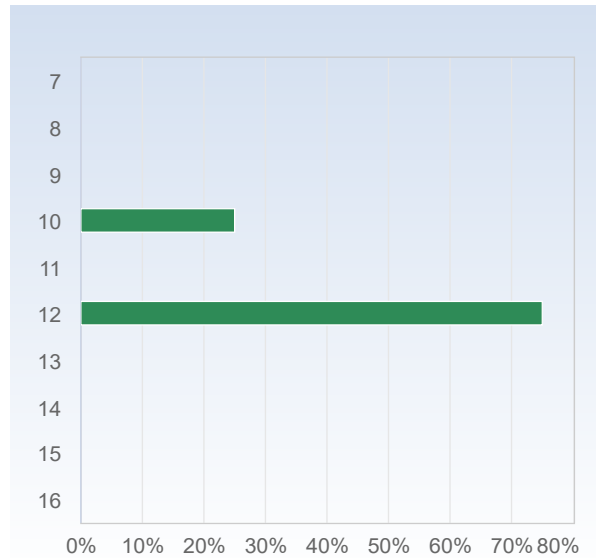
I have participated actively in the course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	3 (100.0%)
5	0 (0.0%)
Total	3 (100.0%)



I have participated actively in the course.	Mean	Standard Deviation
	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
7	0 (0.0%)
8	0 (0.0%)
9	0 (0.0%)
10	1 (25.0%)
11	0 (0.0%)
12	3 (75.0%)
13	0 (0.0%)
14	0 (0.0%)
15	0 (0.0%)
16	0 (0.0%)
<b>Total</b>	<b>4 (100.0%)</b>



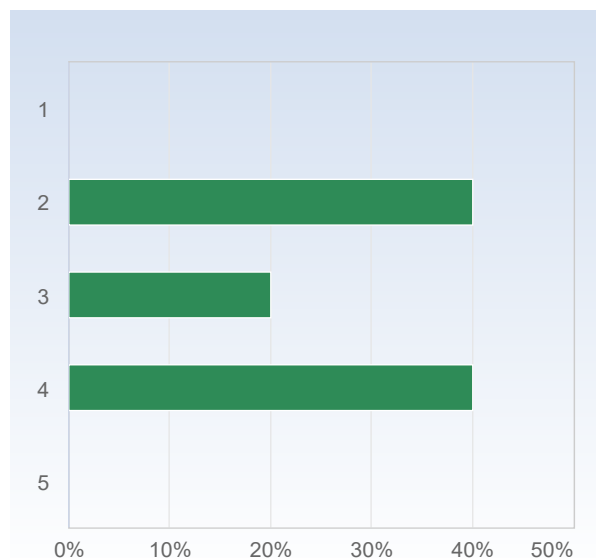
	Mean	Standard Deviation
Average number of hours spent in total on the course per week (including scheduled activities):	11.5	1.0

## 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.

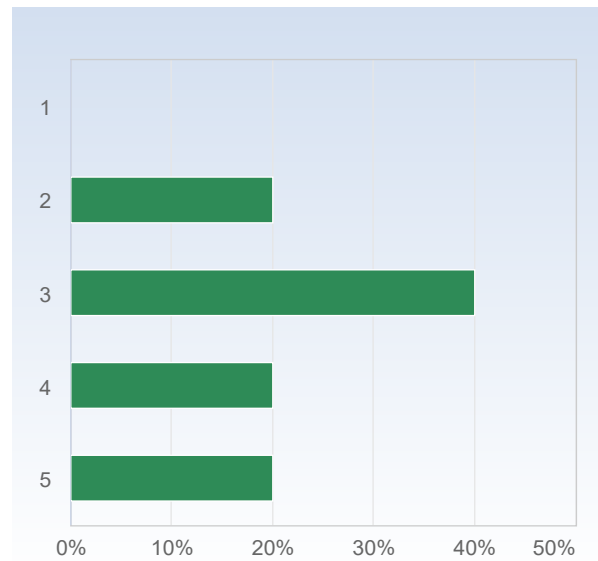
The way the course was taught and organised suited me.	Number of responses
1	0 (0.0%)
2	2 (40.0%)
3	1 (20.0%)
4	2 (40.0%)
5	0 (0.0%)
<b>Total</b>	<b>5 (100.0%)</b>



	Mean	Standard Deviation
The way the course was taught and organised suited me.	3.0	1.0

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

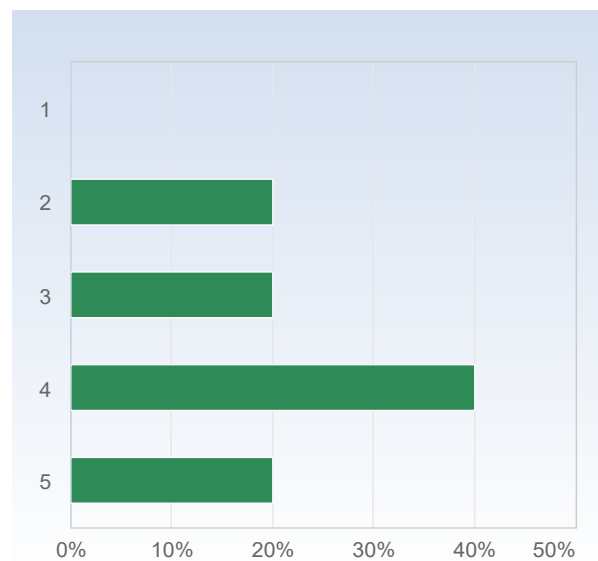
The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	2 (40.0%)
4	1 (20.0%)
5	1 (20.0%)
<b>Total</b>	<b>5 (100.0%)</b>



	Mean	Standard Deviation
The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.	3.4	1.1

### The lectures were valuable for my learning.

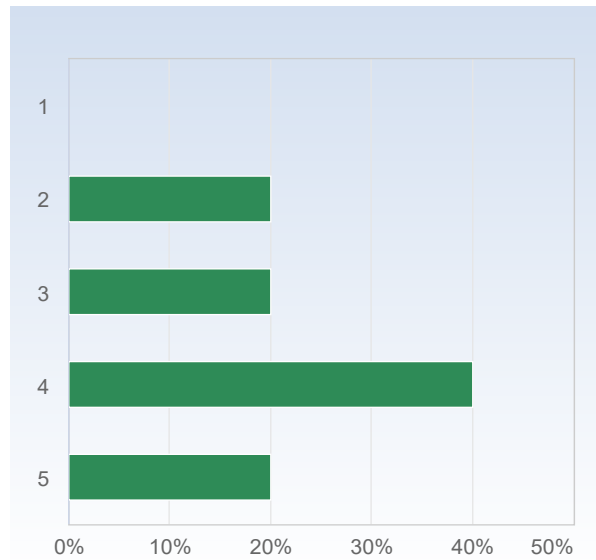
The lectures were valuable for my learning.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	2 (40.0%)
5	1 (20.0%)
<b>Total</b>	<b>5 (100.0%)</b>



	Mean	Standard Deviation
The lectures were valuable for my learning.	3.6	1.1

### The seminars were valuable for my learning.

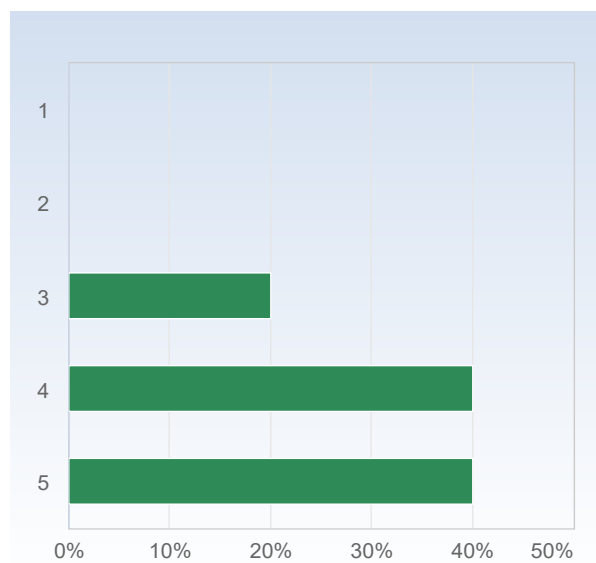
The seminars were valuable for my learning.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	2 (40.0%)
5	1 (20.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The seminars were valuable for my learning.	3.6	1.1

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

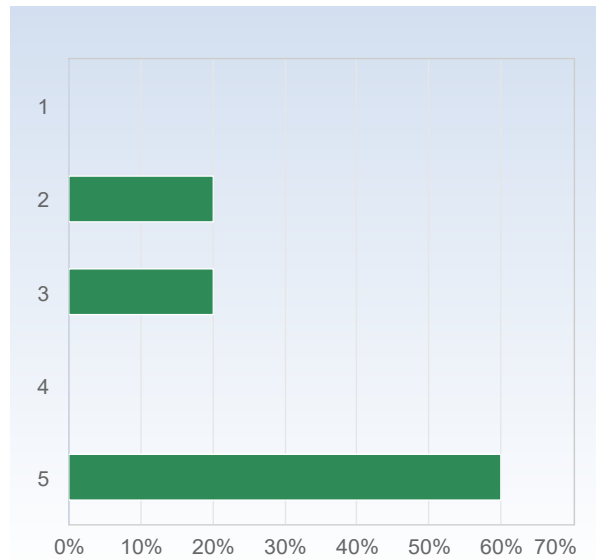
Studying on my own was valuable for my learning.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (20.0%)
4	2 (40.0%)
5	2 (40.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
Studying on my own was valuable for my learning.	4.2	0.8

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

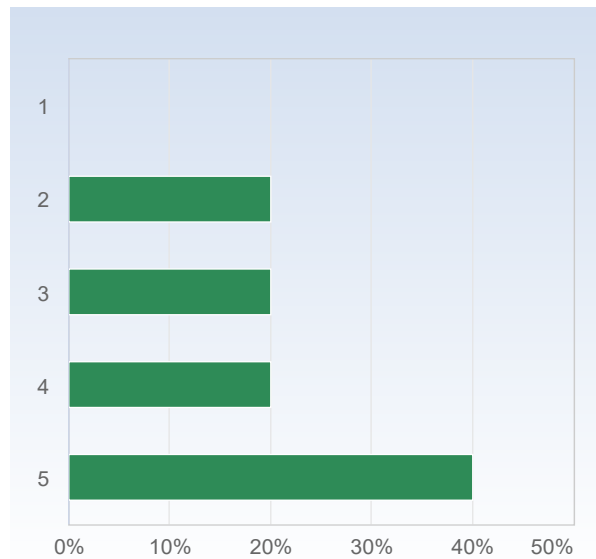
The course literature/material was a valuable learning resource.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	0 (0.0%)
5	3 (60.0%)
Total	5 (100.0%)



The course literature/material was a valuable learning resource.	Mean	Standard Deviation
	4.0	1.4

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

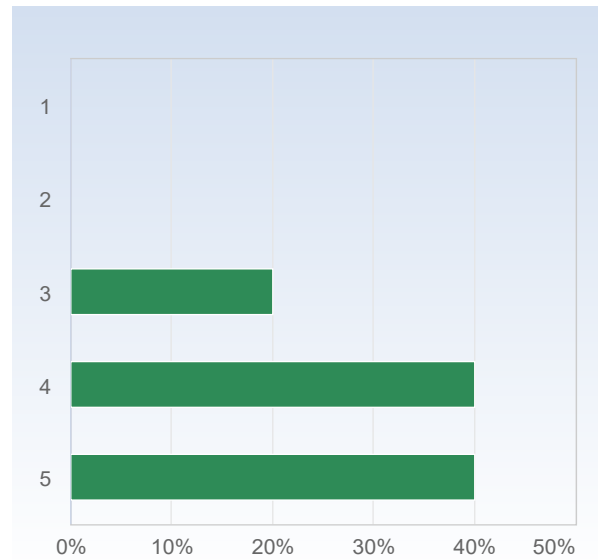
The information I received before the course start was satisfactory.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	1 (20.0%)
5	2 (40.0%)
Total	5 (100.0%)



The information I received before the course start was satisfactory.	Mean	Standard Deviation
	3.8	1.3

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

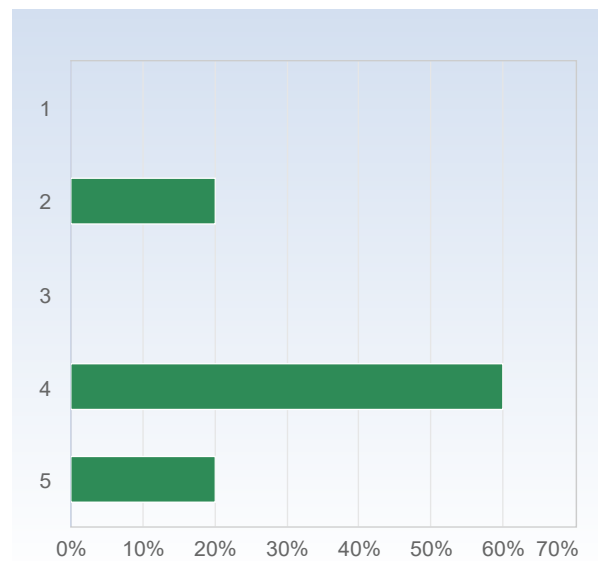
The communication with the teaching staff during the course was good.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (20.0%)
4	2 (40.0%)
5	2 (40.0%)
Total	5 (100.0%)



The communication with the teaching staff during the course was good.	Mean	Standard Deviation
	4.2	0.8

### 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	1 (20.0%)
3	0 (0.0%)
4	3 (60.0%)
5	1 (20.0%)
Total	5 (100.0%)

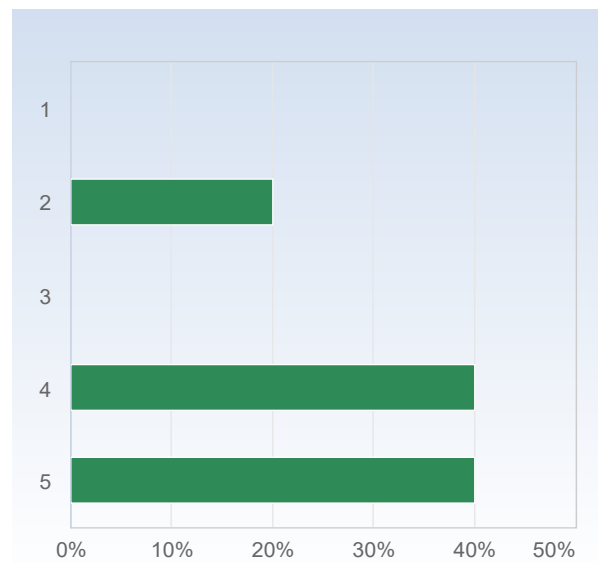


It was clear throughout the course what was expected of me.	Mean	Standard Deviation
	3.8	1.1



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

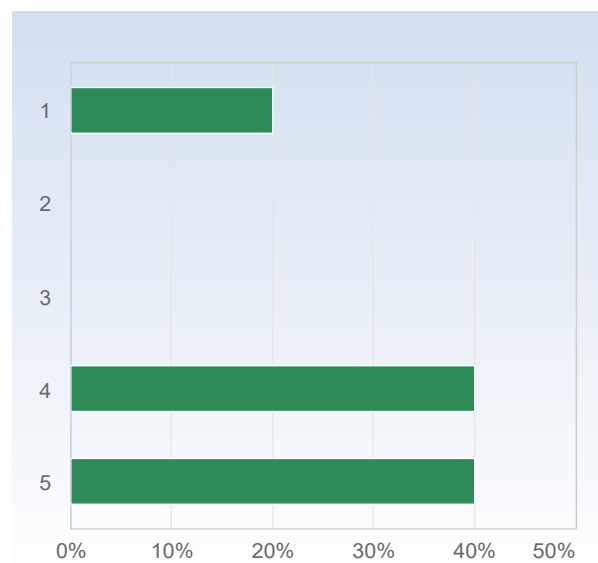
I have received valuable feedback from my teacher /teachers during the course.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	0 (0.0%)
4	2 (40.0%)
5	2 (40.0%)
Total	5 (100.0%)



I have received valuable feedback from my teacher/teachers during the course.	Mean	Standard Deviation
	4.0	1.2

### The course had a reasonable workload.

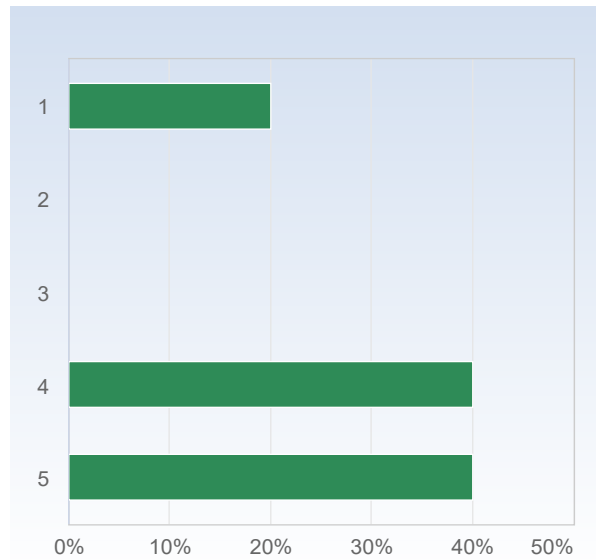
The course had a reasonable workload.	Number of responses
1	1 (20.0%)
2	0 (0.0%)
3	0 (0.0%)
4	2 (40.0%)
5	2 (40.0%)
Total	5 (100.0%)



The course had a reasonable workload.	Mean	Standard Deviation
	3.8	1.6

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

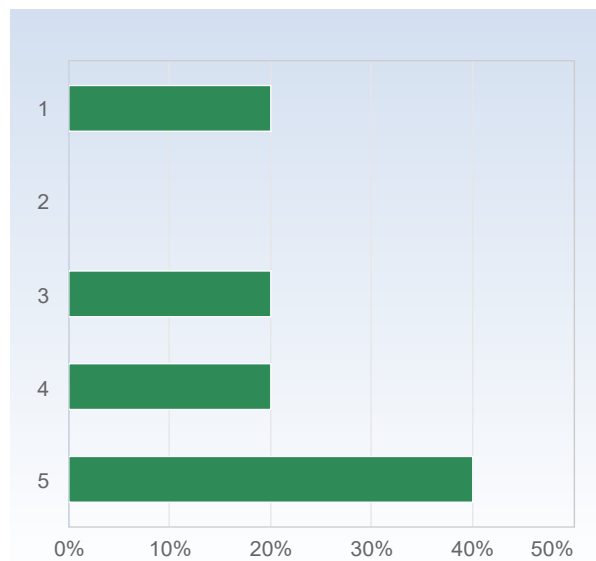
The workload was evenly distributed throughout the course.	Number of responses
1	1 (20.0%)
2	0 (0.0%)
3	0 (0.0%)
4	2 (40.0%)
5	2 (40.0%)
<b>Total</b>	<b>5 (100.0%)</b>



	Mean	Standard Deviation
The workload was evenly distributed throughout the course.	3.8	1.6

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

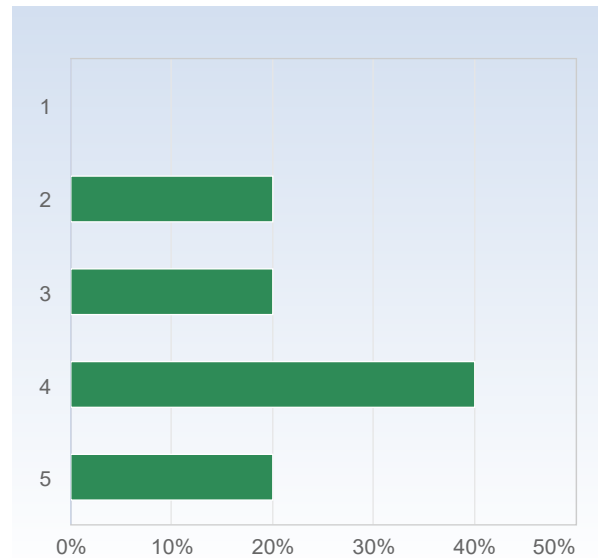
The examination matched the contents and level of the course.	Number of responses
1	1 (20.0%)
2	0 (0.0%)
3	1 (20.0%)
4	1 (20.0%)
5	2 (40.0%)
<b>Total</b>	<b>5 (100.0%)</b>



	Mean	Standard Deviation
The examination matched the contents and level of the course.	3.6	1.7

### Overall, I am satisfied with the course.

Overall, I am satisfied with the course.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	2 (40.0%)
5	1 (20.0%)
Total	5 (100.0%)



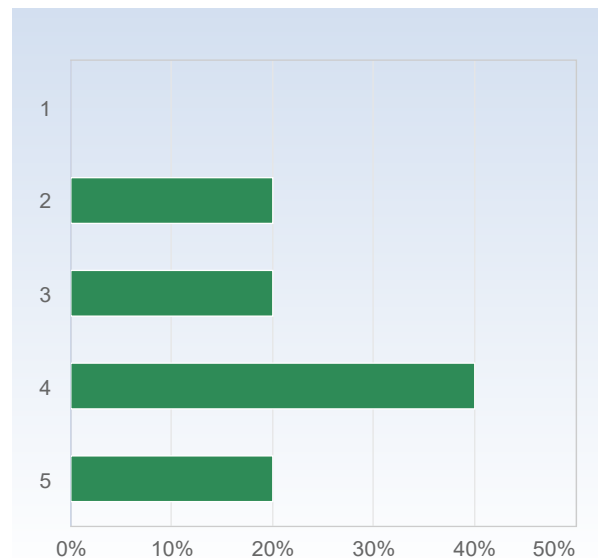
	Mean	Standard Deviation
Overall, I am satisfied with the course.	3.6	1.1

### 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.

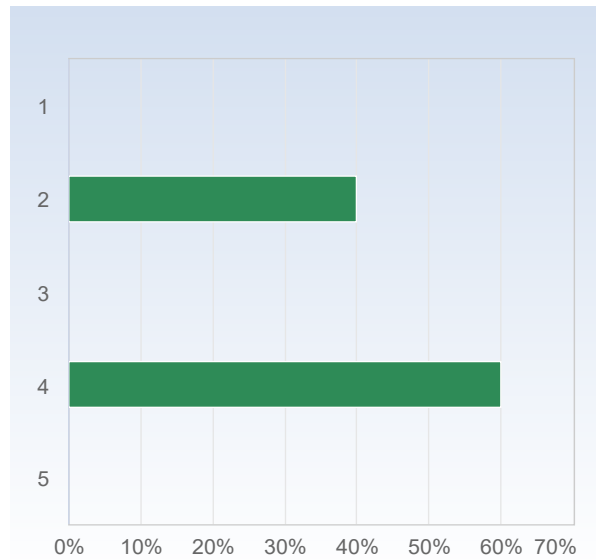
The course has increased my ability to read a mathematical text.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	2 (40.0%)
5	1 (20.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to read a mathematical text.	3.6	1.1

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

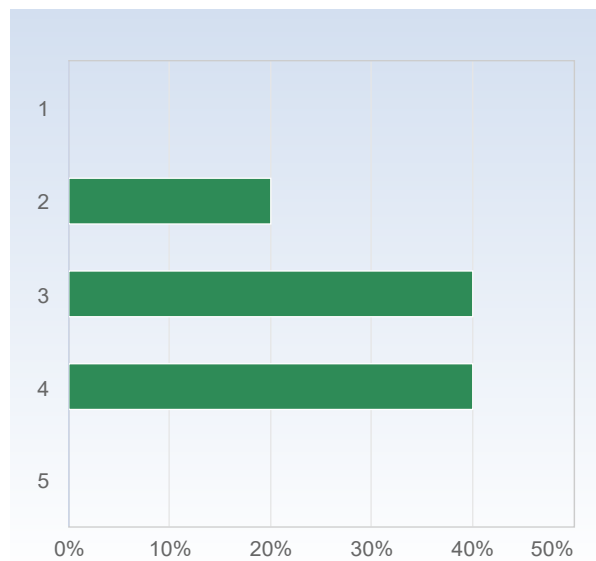
The course has increased my ability to communicate the subject in writing.	Number of responses
1	0 (0.0%)
2	2 (40.0%)
3	0 (0.0%)
4	3 (60.0%)
5	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to communicate the subject in writing.	3.2	1.1

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

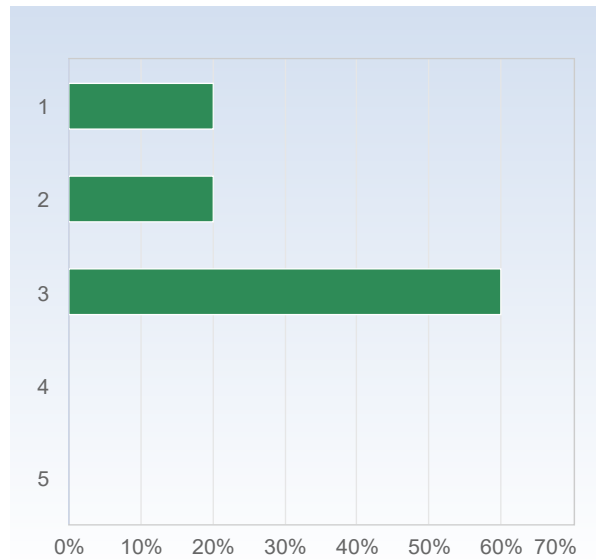
The course has increased my ability to communicate the subject orally.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	2 (40.0%)
4	2 (40.0%)
5	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to communicate the subject orally.	3.2	0.8

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

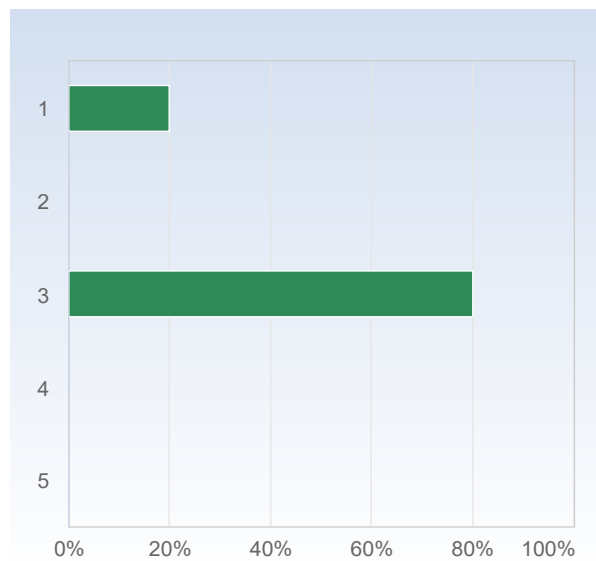
The course has increased my ability to cooperate.	Number of responses
1	1 (20.0%)
2	1 (20.0%)
3	3 (60.0%)
4	0 (0.0%)
5	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to cooperate.	2.4	0.9

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

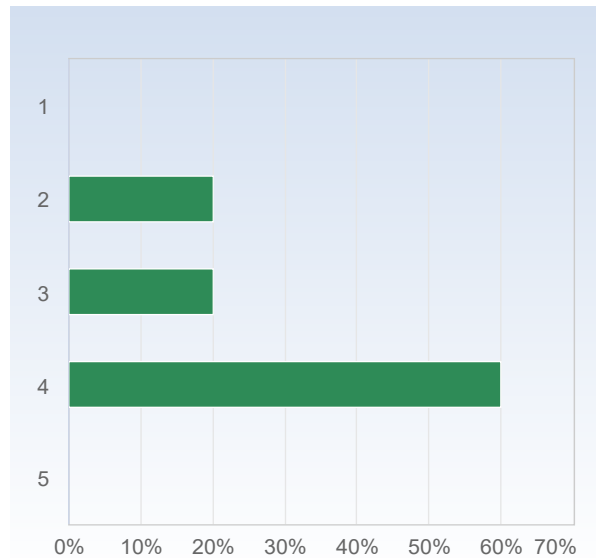
The course has increased my ability to search and process information.	Number of responses
1	1 (20.0%)
2	0 (0.0%)
3	4 (80.0%)
4	0 (0.0%)
5	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to search and process information.	2.6	0.9

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

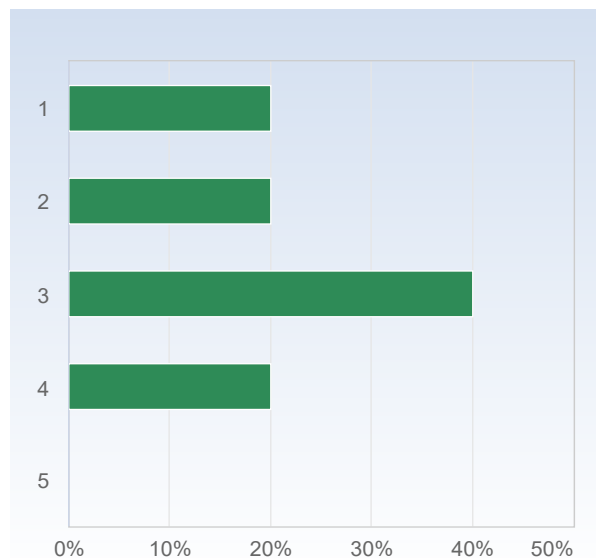
The course has increased my ability to analyze and solve problems.	Number of responses
1	0 (0.0%)
2	1 (20.0%)
3	1 (20.0%)
4	3 (60.0%)
5	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to analyze and solve problems.	3.4	0.9

## 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	1 (20.0%)
2	1 (20.0%)
3	2 (40.0%)
4	1 (20.0%)
5	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
As a result of this course, I feel confident about tackling unfamiliar problems.	2.6	1.1

## What did you appreciate most with the course?

What did you appreciate most with the course?
The lecture notes on canvas were helpful.
It was a quite straightforward course, where the problems matched very much the problems given in the book. This does not in any way mean the problems were easy in themselves, but rather that it was very clear throughout the course what problems one were to be able to handle.
I found the course book to be very good.
The content was pretty interesting.

## What do you think should be improved?

What do you think should be improved?

It would be better having some comments on each chapter that we were doing, like what is the most important, what is difficult, how to overcome the difficulties of the chapter, also comments about the exercises would be helpful. The exam was more difficult than expected, the past exams shared on canvas seemed easier in my opinion, the exam this year was instead longer with respect to others. There were too many exercises in the written exam. It would be better also covering more examples, as the book does not contain many examples.

The course was overall good.

The course literature.

-

## 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.

No.