Course Analysis for
MATP33 Group and Ring Theory, Spring 2024

Course Information

Lecturer: Gustavo Jasso
Teaching assistants:
Number of students:
8 newly registered and 8 re-registered.
4 students answered the course evaluation, 2 of them are enrolled on the Master's Programme in Mathematics.

Examination

Oral examination: 5 students passed.
Written examination: 5 students passed.

- Ordinary examination 23/5 2024: 7 students participated and 2 of them passed.
- Resit examination 16/8 2024: 6 students participated and 3 of them passed.

Final grades:
In all, 6 students, including 1 re-registered students, have got their final grade.
4 passed with distinction.
2 passed.

Course Evaluation

Summary of student's answers:

Over all, the comments from the students were positive, although only 4 students answered the evaluation of the course. As in previous semester, the most significant comment is concerning the large amount of material covered in the course.

Teachers' comments:

The course was taught closely following the previous realisation, including lectures, seminars, and weekly exercise sheets. The previous realisation of the course resulted in a set of lecture notes typset by the lecturer in LaTeX, and these were made available to the students through the Canvas page of the coursre since the beginning of the period. Students appreciated these lecture notes and it is hoped that they helped them to better prepare for attending each lecture (as the notes were followed very closely).

Changes from the previous course realisation:

The main change with respect to the previous course realisation was that greater effort was made to engage the students during the seminars, by asking them to be more active with questions and

to present their solutions on the board. However, only 2 or 3 students participated regularly in the seminars.

Suggestions for the next course realisation:

The main suggestion is to reduce the material covered in the course. Possible concrete changes include removing the topic "Tensor products of modules" from the course syllabus, as well as perhaps the proof of the Artin-Wedderburn Theorem. It is also possible to be less thorough in future realisations of the course, for example by not discussing concepts such as that of a projective module - discussing such concepts is desirable since this increases understanding but unfortunately the course has rather few teaching sessions.

Group- and Ring Theory, Spring 2024

Respondents: 16
Answer Count: 4
Answer Frequency: 25.00%

I have studied this course as part of

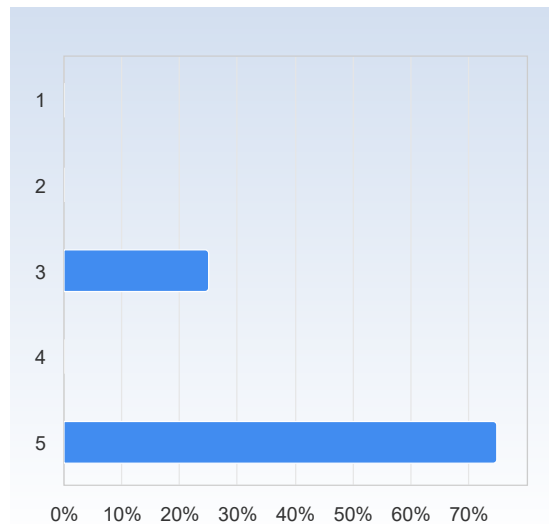| I have studied this course as part of	Number of responses
Bachelor´s Programme in Mathematics	0 (0.0%)
Bachelor´s Programme in Physics, Theoretical Physics, Astronomy	0 (0.0%)
Bachelor´s Programme, other specialization	0 (0.0%)
Master's Programme in Mathematics	2 (50.0%)
Master´s Programme in Mathematical Statistics	0 (0.0%)
Master´s Programme, other specialization	0 (0.0%)
Teacher Education	0 (0.0%)
other programme or as stand alone course	2 (50.0%)
Total	4 (100.0%)
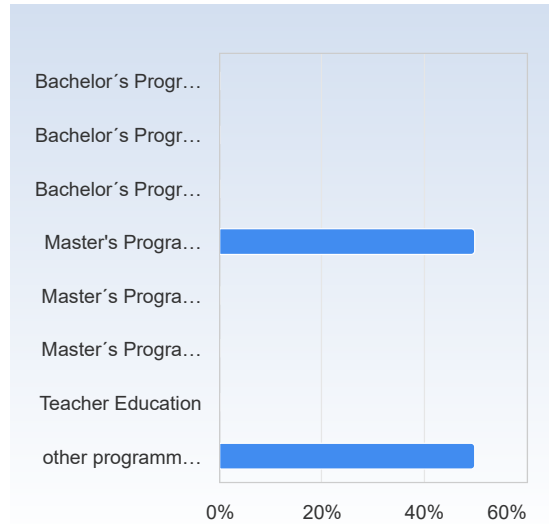
	Mean	Standard Deviation
I have studied this course as part of	6.0	2.3

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

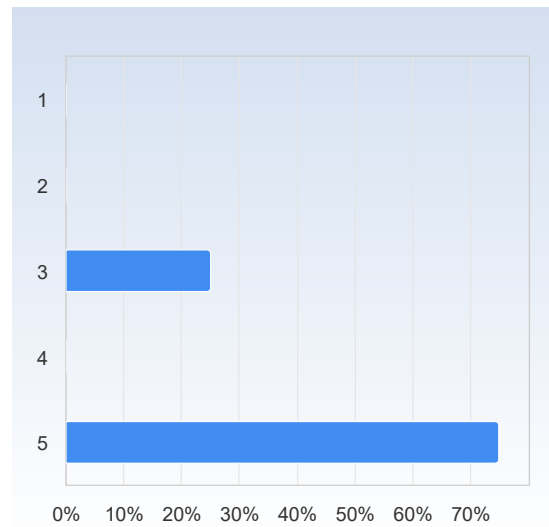### The exercises included in the lecture notes were valuable for my learning

The exercises included in the lecture notes were 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 exercises included in the lecture notes were valuable for my learning	4.5	1.0

The extra material included in the lecture notes was valuable for my learning

The extra material included in the lecture notes was 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 extra material included in the lecture notes was valuable for my learning	4.5	1.0

Comments on the exercises and the seminars

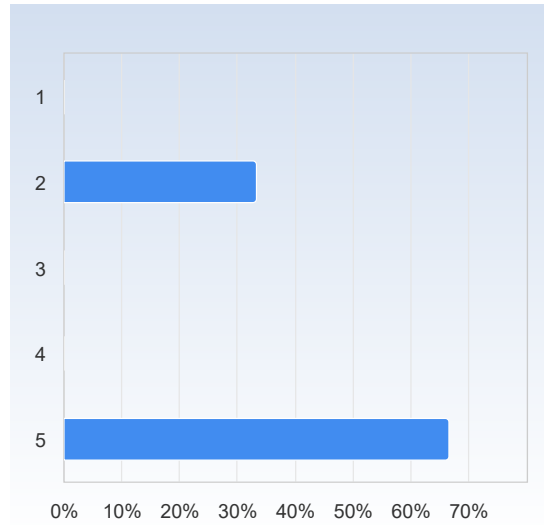| Comments on the exercises and the seminars |
|---|
| Very high quality lecture notes and exercises therein. Also plenty of valuable feedback during the seminars. |
| I would have liked to have solutions availble online to look at |
| Personally, I liked both. Perhaps it would have been nicer to go through all the exercises, but I don't have any complaints otherwise |

**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	1 (33.3%)
3	0 (0.0%)
4	0 (0.0%)
5	2 (66.7%)
Total	3 (100.0%)

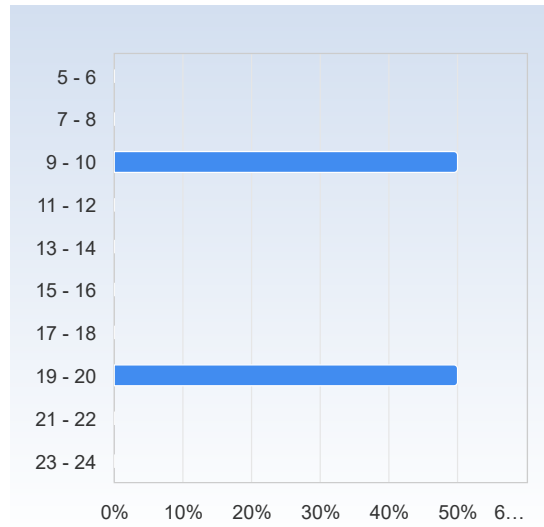|	Mean	Standard Deviation
2.⬛My prior knowledge has been sufficient to assimilate the contents of this course.	4.0	1.7

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	2 (66.7%)
5	1 (33.3%)
Total	3 (100.0%)
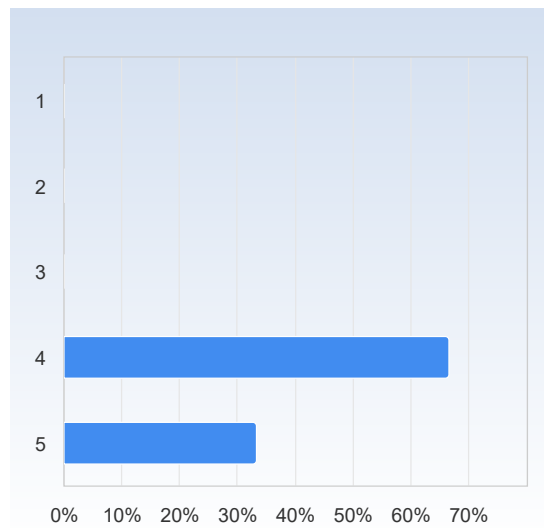
	Mean	Standard Deviation
3.⬛I have participated actively in the course.	4.3	0.6

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
5 - 6	0 (0.0%)
7 - 8	0 (0.0%)
9 - 10	2 (50.0%)
11 - 12	0 (0.0%)
13 - 14	0 (0.0%)
15 - 16	0 (0.0%)
17 - 18	0 (0.0%)
19 - 20	2 (50.0%)
21 - 22	0 (0.0%)
23 - 24	0 (0.0%)
Total	4 (100.0%)

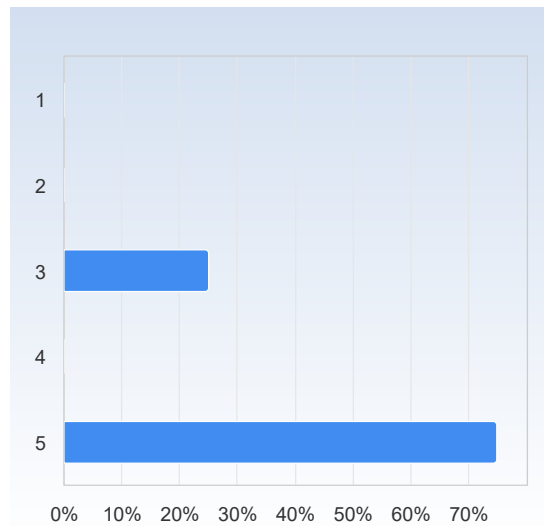|	Mean	Standard Deviation
Average number of hours spent in total on the course per week (including scheduled activities):	14.8	6.1

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

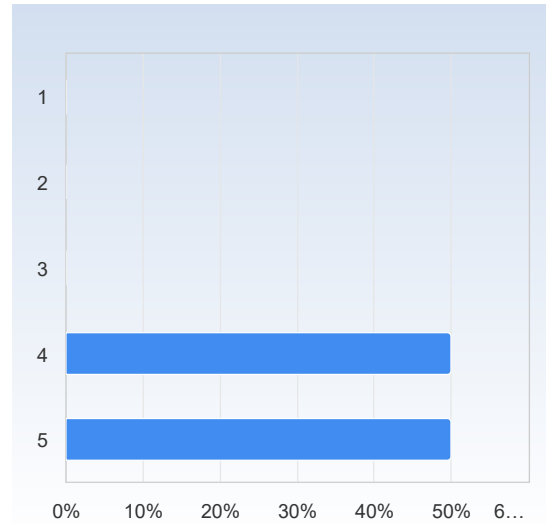**The way the course was taught and organised suited me.**

The way the course was taught and organised suited me.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The way the course was taught and organised suited me.	4.5	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	0 (0.0%)
3	0 (0.0%)
4	2 (50.0%)
5	2 (50.0%)
Total	4 (100.0%)

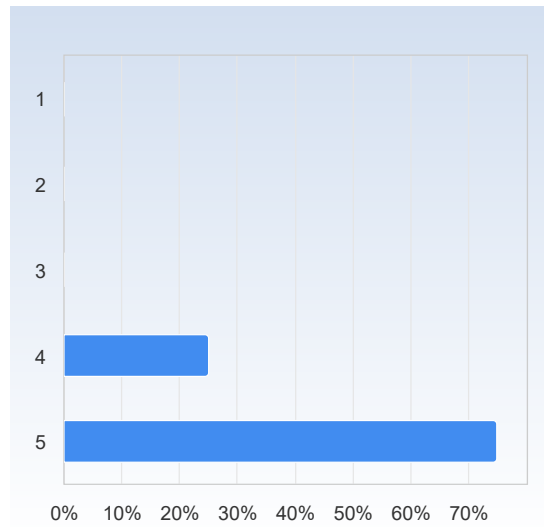|	Mean	Standard Deviation
The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.	4.5	0.6

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	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)
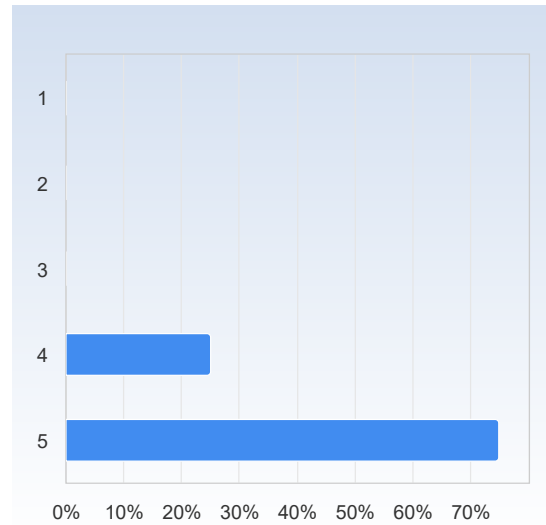
	Mean	Standard Deviation
The lectures were valuable for my learning.	4.8	0.5

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 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The seminars were valuable for my learning.	4.8	0.5

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	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)
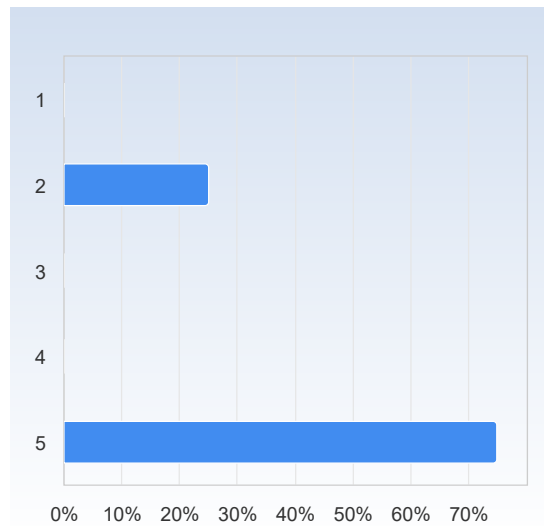
	Mean	Standard Deviation
Studying on my own was valuable for my learning.	4.2	1.5

The course literature/material was a valuable learning resource.

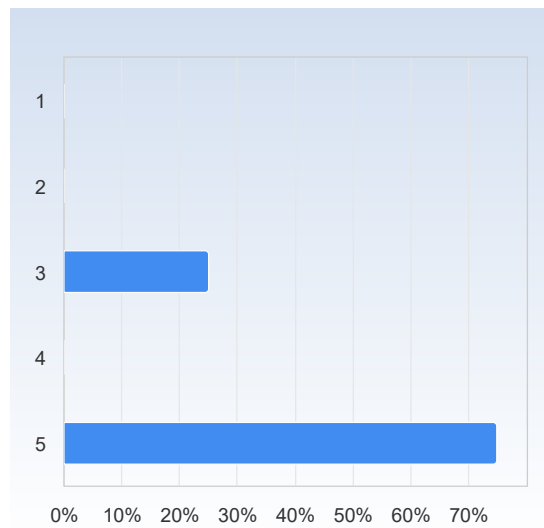| The course literature/material was a valuable learning resource.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)
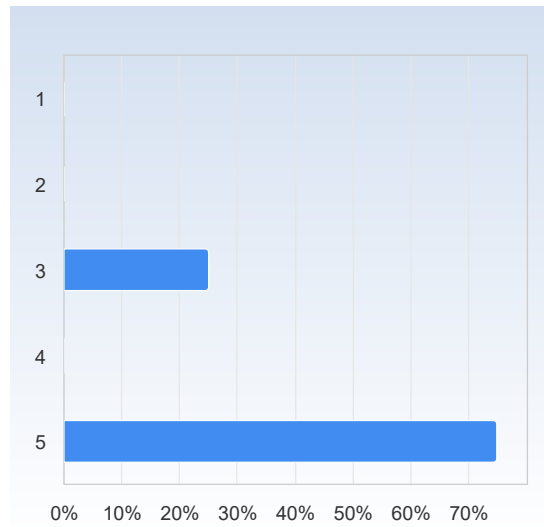
	Mean	Standard Deviation
The course literature/material was a valuable learning resource.	4.5	1.0

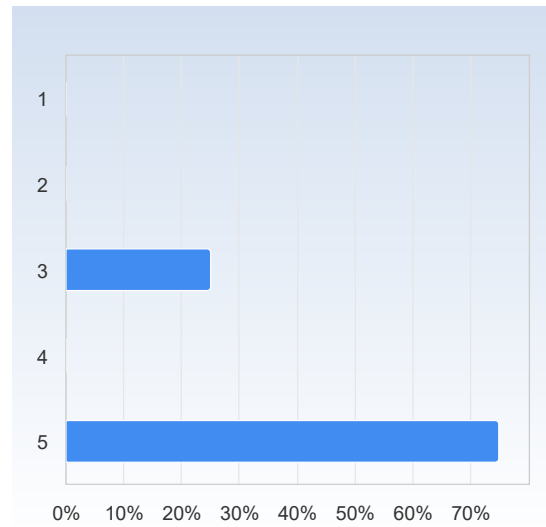**The information I received before the course start was satisfactory.**

The information I received before the course start was satisfactory.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The information I received before the course start was satisfactory.	4.5	1.0

**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	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The communication with the teaching staff during the course was good.	4.5	1.0

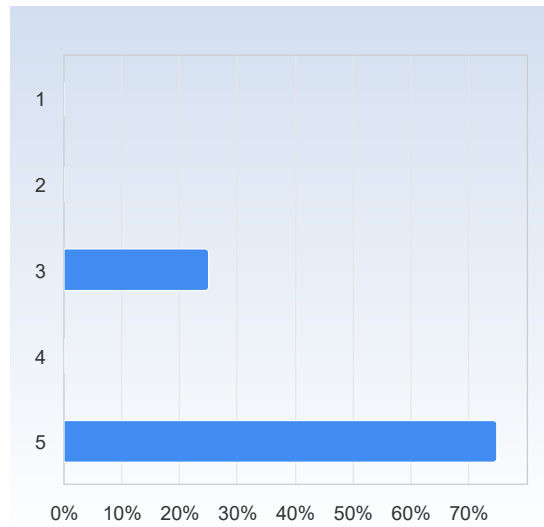**It was clear throughout the course what was expected of me.**

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	1 (25.0%)
5	3 (75.0%)
Total	4 (100.0%)
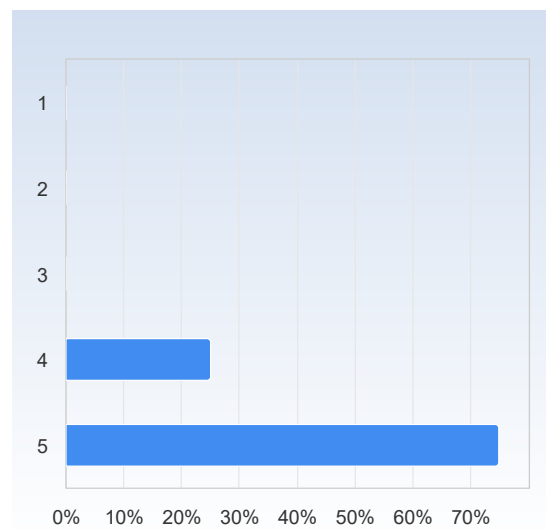
	Mean	Standard Deviation
It was clear throughout the course what was expected of me.	4.8	0.5

**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	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
I have received valuable feedback from my teacher/teachers during the course.	4.5	1.0

The course had a reasonable workload.

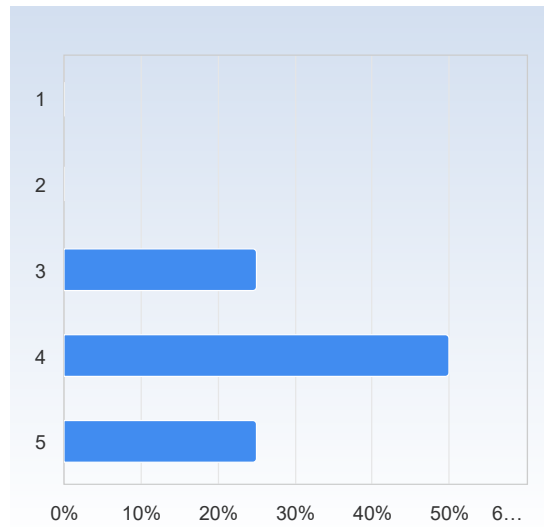| The course had a reasonable workload.	Number of responses
1	0 (0.0%)
2	1 (25.0%)
3	0 (0.0%)
4	3 (75.0%)
5	0 (0.0%)
Total	4 (100.0%)
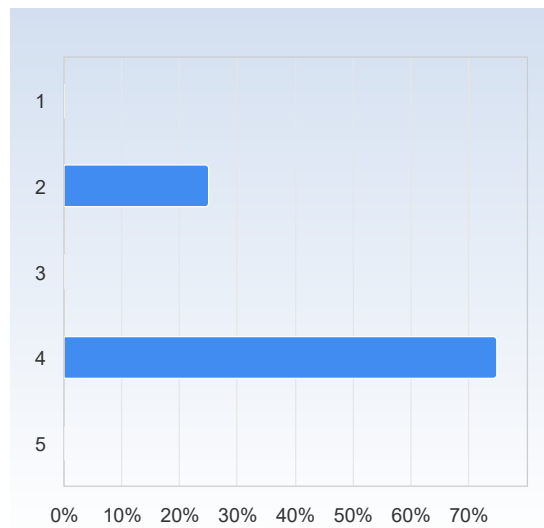
	Mean	Standard Deviation
The course had a reasonable workload.	3.5	1.0

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	1 (25.0%)
4	2 (50.0%)
5	1 (25.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The workload was evenly distributed throughout the course.	4.0	0.8

The examination matched the contents and level of the course.

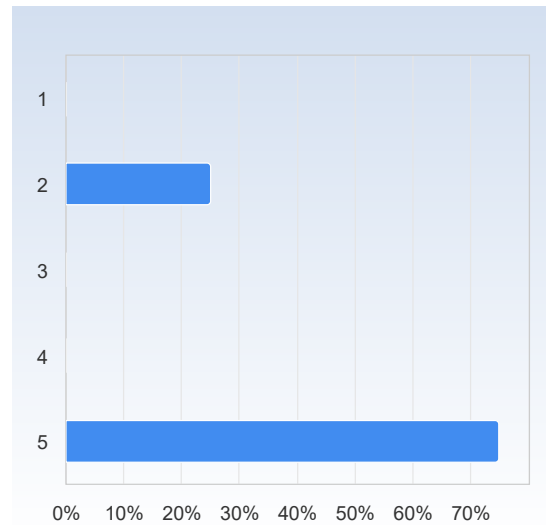| The examination matched the contents and level of the course.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (33.3%)
5	2 (66.7%)
Total	3 (100.0%)
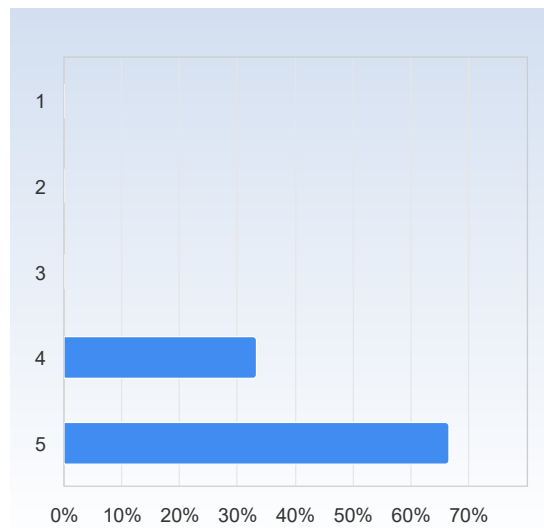
	Mean	Standard Deviation
The examination matched the contents and level of the course.	4.7	0.6

Overall, I am satisfied with the course.

| Overall, I am satisfied with 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
Overall, I am satisfied with the course.	4.2	1.5

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

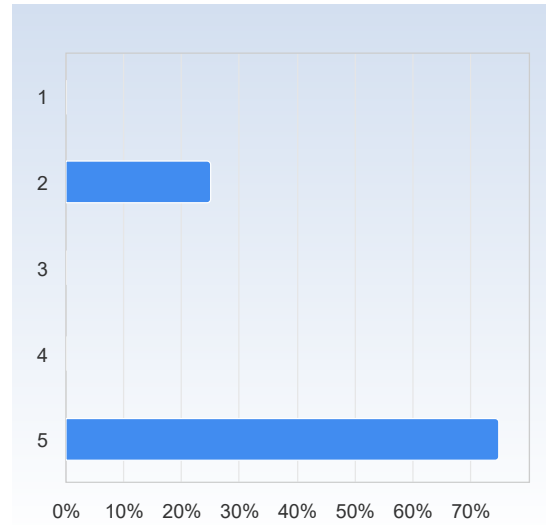**The course has increased my ability to read a mathematical text.**

The course has increased my ability to read a mathematical text.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)
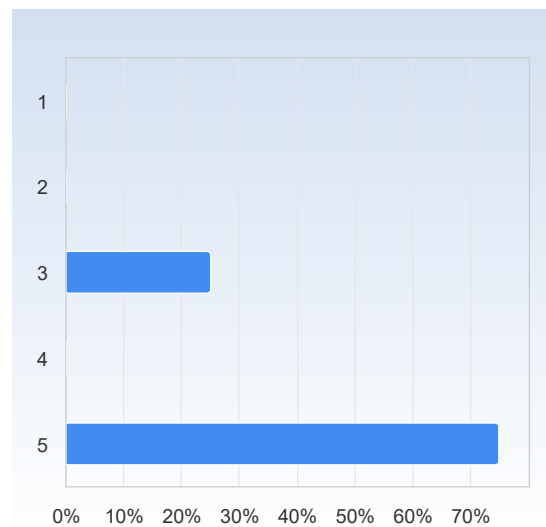
	Mean	Standard Deviation
The course has increased my ability to read a mathematical text.	4.5	1.0

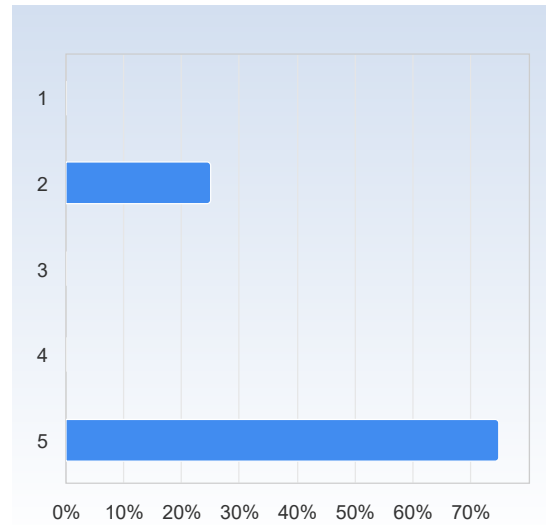## The course has increased my ability to communicate the subject in writing.

The course has increased my ability to communicate the subject in writing.	Number of responses
1	0 (0.0%)
2	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 communicate the subject in writing.	4.2	1.5

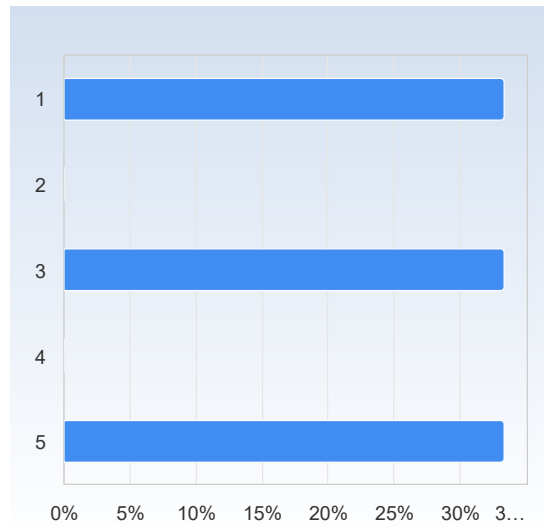## The course has increased my ability to communicate the subject orally.

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

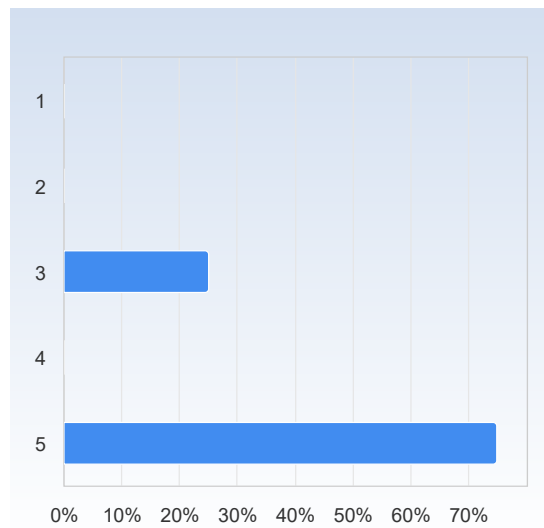|	Mean	Standard Deviation
The course has increased my ability to communicate the subject orally.	4.2	1.5

The course has increased my ability to cooperate.

The course has increased my ability to cooperate.	Number of responses
1	1 (33.3%)
2	0 (0.0%)
3	1 (33.3%)
4	0 (0.0%)
5	1 (33.3%)
Total	3 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to cooperate.	3.0	2.0

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	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
The course has increased my ability to search and process information.	4.5	1.0

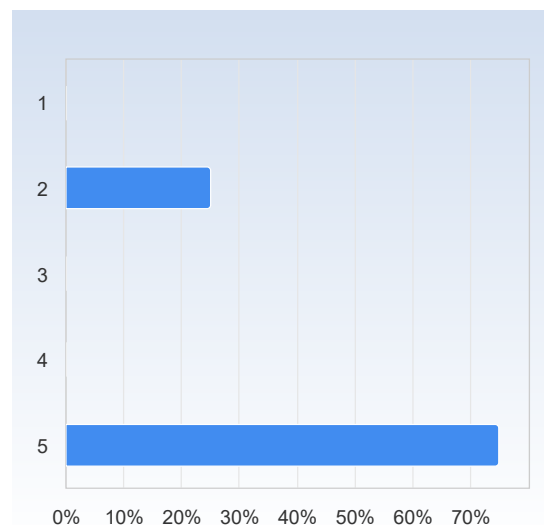### The course has increased my ability to analyze and solve problems.

The course has increased my ability to analyze and solve problems.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (25.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)
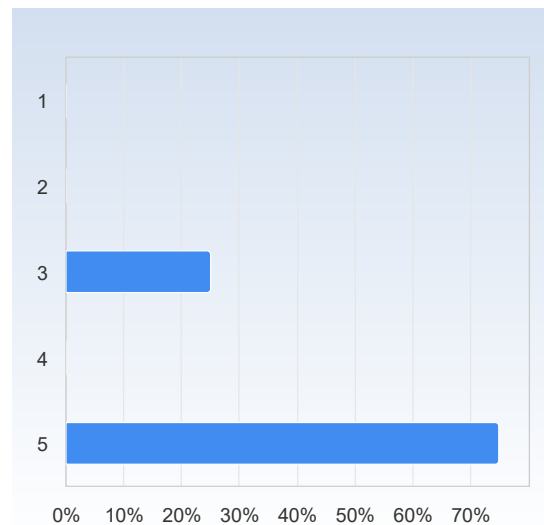
	Mean	Standard Deviation
The course has increased my ability to analyze and solve problems.	4.5	1.0

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	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	3 (75.0%)
Total	4 (100.0%)

	Mean	Standard Deviation
As a result of this course, I feel confident about tackling unfamiliar problems.	4.2	1.5

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

Comments on the typeset lecture notes and the extra material includen therein

Comments on the typeset lecture notes and the extra material includen therein
Excellent. The structure is easy to follow, the typesetting beautiful and plenty of examples/exercises with which to internalize information.
Would like an easier way to search for specific things. The lecture notes i over 150 pages and it can be hard to find something if you arent entierly sure what you are looking for
I liked it. It helps a lot to have the lectures follow strictly the lecture notes as it's easier to prepare for the lectures and to review the lectures afterwards.

What do you think should be improved?

What do you think should be improved?
The course has way to much material to cover, to many new things. It feels like a 15 point course that has been squeezed into a 7.5 points course.
The first examination should be postponed a bit. Since the course has a lot of content, it ends up being hard to fully prepare for the first examination.
There is a lot of material for the course duration. Many of my peers agree that this could have been a full semester.

What did you appreciate most with the course?

What did you appreciate most with the course?
Excellent teaching
I appreciated the lectures following the lecture notes perfectly. The professor's way to incorporate motivation in the lectures also helped make the material fresher to those that had read in advance as preparation for the lecture. Very good experience overall.
Quality of lecture notes as well as the lectures themselves.