

Matematik centrum Matematik och Numerisk analys

Matematikcentrum Naturvetenskapliga fakulteten

Sammanställning för MATA23 Algebrans grunder, höstterminen 2021

Kursinformation

Kursansvarig: Kjell Elfström Övriga lärare: Adem Limani

Antal studenter:

18 nyregistrerade samt 6 omregistrerade.

4 studenter har svarat på utvärderingen av vilka 1 har läst denna kurs inom Naturvetenskapligt kandidatprogram, Matematik.

Resultat på examinerade moment

Projektuppgifter: 20 godkända studenter. Muntlig redovisning: Ej tillämpligt. Muntlig tentamen: 5 godkända studenter. Skriftlig tentamen: 14 godkända studenter.

- Ordinarie tentamen 13/1 2022: 19 deltagande studenter, varav 13 godkända.
- Omtentamen 29/1 2022: 5 deltagande studenter, varav 1 godkänd.

Betyg på hel kurs:

Sammanlagt 14 studenter, varav inga omregistrerade, har fått slutbetyg på kursen.

5 studenter har fått betyget VG.

9 har fått betyget G.

Utvärdering

Sammanfattning av kursvärderingen:

På varje delfråga i undersökningen gav minst tre av de fyra svarande positiv respons

Lärarnas kommentarer:

- Undervisningen bestod av föreläsningar och lektioner i sal. Ingen distansundervisning ägde rum.
- Inför varje lektion förväntades det av studenterna att de hade gjort de läxuppgifter som gavs.

Ganska få deltagare.

Utvärderingar av förändringar sedan förra kurstillfället:

Inga förändringar har genomförts.

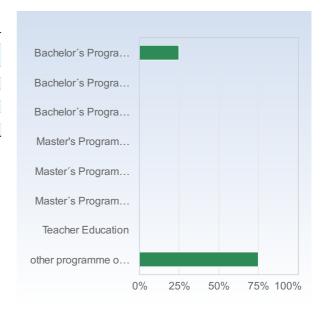
Förslag till förändringar inför nästa kurstillfälle:

Resultatet av denna utvärdering föranleder inga förändringar.

Algebrans grunder, hösten 2021

I have studied this course as part of

	Number of
I have studied this course as part of	responses
Bachelor's Programme in Mathematics	1 (25,0%)
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	3 (75,0%)
Total	4 (100,0%)

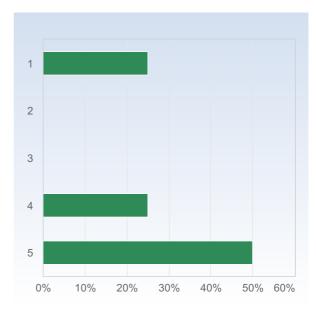


	Mean	Standard Deviation
I have studied this course as part of	6,3	3,5

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.

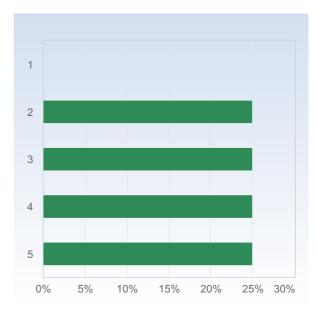
2.□My prior knowledge has been sufficient to	Number of
assimilate the contents of this course.	responses
1	1 (25,0%)
2	0 (0,0%)
3	0 (0,0%)
4	1 (25,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
2. ☐My prior knowledge has been sufficient to assimilate the contents of this course.	3,8	1,9

3. ☐ I have participated actively in the course.

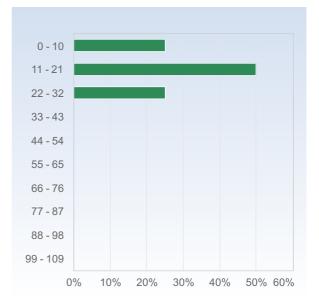
3. □I have participated actively in the course.	Number of responses
1	0 (0,0%)
2	1 (25,0%)
3	1 (25,0%)
4	1 (25,0%)
5	1 (25,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
3. □I have participated actively in the course.	3,5	1,3

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

Average number of hours spent in total on the	Number of
course per week (including scheduled activities):	responses
0 - 10	1 (25,0%)
11 - 21	2 (50,0%)
22 - 32	1 (25,0%)
33 - 43	0 (0,0%)
44 - 54	0 (0,0%)
55 - 65	0 (0,0%)
66 - 76	0 (0,0%)
77 - 87	0 (0,0%)
88 - 98	0 (0,0%)
99 - 109	0 (0,0%)
Total	4 (100.0%)



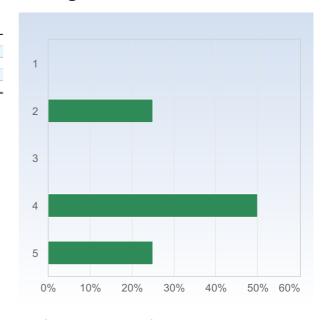
	Mean	Standard Deviation
Average number of hours spent in total on the course per week (including scheduled activities):	15,8	7,1

The course in general

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

The way the course was taught and organised suited me.

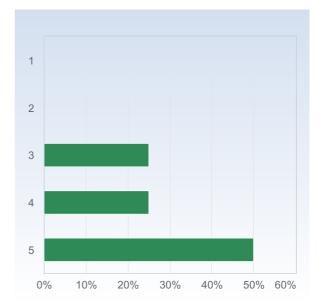
The way the course was taught and organised suited me.	Number of responses
1	0 (0,0%)
2	1 (25,0%)
3	0 (0,0%)
4	2 (50,0%)
5	1 (25,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The way the course was taught and organised suited me.	3,8	1,3

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

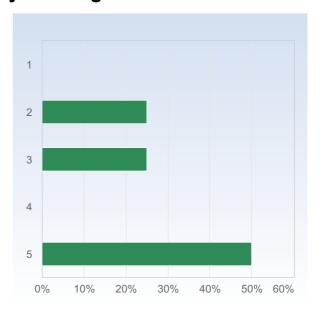
The number of teacher lead activities (lectures,	Number of
seminars etc.) has been satisfactory.	responses
1	0 (0,0%)
2	0 (0,0%)
3	1 (25,0%)
4	1 (25,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The number of teacher lead activities (lectures, seminars etc.) has been satisfactory.	4,3	1,0

The lectures were valuable for my learning.

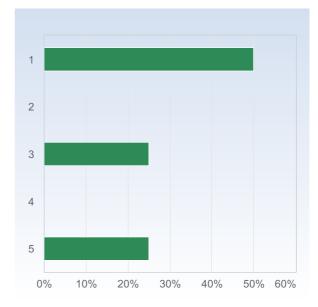
The lectures were valuable for my learning.	Number of responses
1	0 (0,0%)
2	1 (25,0%)
3	1 (25,0%)
4	0 (0,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The lectures were valuable for my learning.	3,8	1,5

The seminars were valuable for my learning.

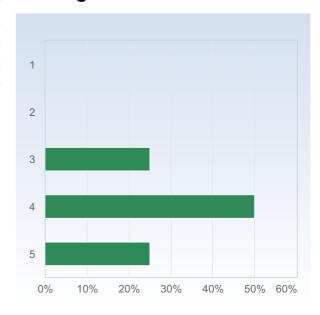
The seminars were valuable for my learning.	Number of responses
1	2 (50,0%)
2	0 (0,0%)
3	1 (25,0%)
4	0 (0,0%)
5	1 (25,0%)
Total	4 (100.0%)



	Mean	Standard Deviation
The seminars were valuable for my learning.	2,5	1,9

The project was valuable for my learning.

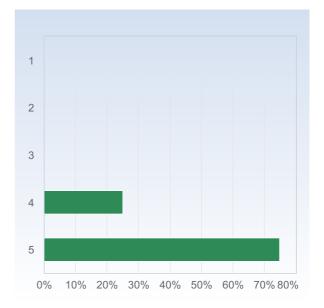
The project was valuable for my learning.	Number of responses
1	0 (0,0%)
2	0 (0,0%)
3	1 (25,0%)
4	2 (50,0%)
5	1 (25,0%)
Total	4 (100.0%)



	Mean	Standard Deviation
The project was valuable for my learning.	4,0	0,8

Studying on my own was valuable for my learning.

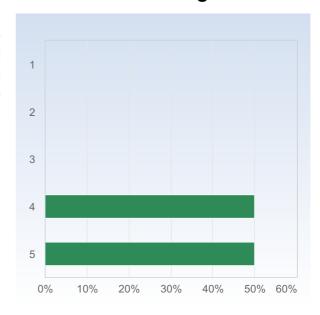
Studying on my own was valuable for my	Number of
learning.	responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	1 (25,0%)
5	3 (75,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
Studying on my own was valuable for my learning.	4,8	0,5

The course literature/material was a valuable learning resource.

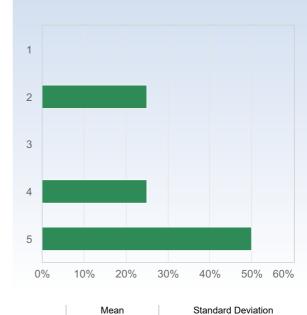
The course literature/material was a valuable	Number of
learning resource.	responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	2 (50,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The course literature/material was a valuable learning resource.	4,5	0,6

The information I received before the course start was satisfactory.

The information I received before the course start	Number of
was satisfactory.	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%)

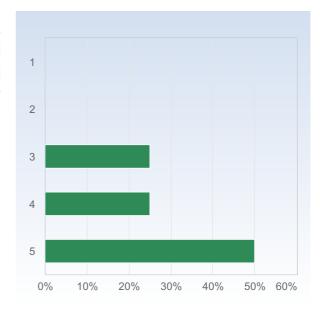


The information I received before the course start was satisfactory.

Mean Standard Deviation
4,0 1,4

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

The communication with the teaching staff during	Number of
the course was good.	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%)



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

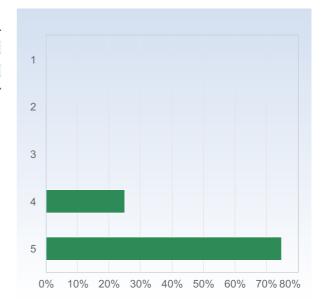
Mean

4,3

1,0

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

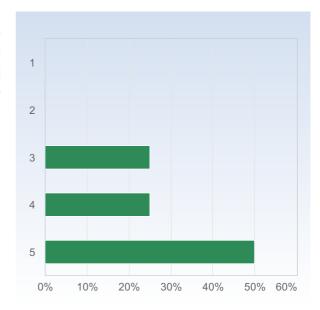
It was clear throughout the course what was	Number of
expected of me.	responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	1 (25,0%)
5	3 (75,0%)
Total	4 (100,0%)



	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.

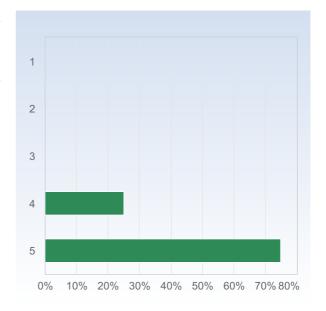
I have received valuable feedback from my	Number of
teacher/teachers during the course.	responses
1	0 (0,0%)
2	0 (0,0%)
3	1 (25,0%)
4	1 (25,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
I have received valuable feedback from my teacher/teachers during the course.	4,3	1,0

The course had a reasonable workload.

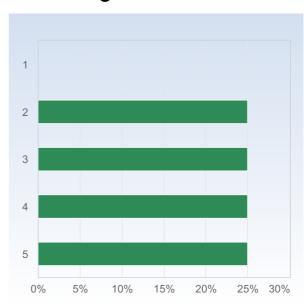
The course had a reasonable workload.	Number of responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	1 (25,0%)
5	3 (75,0%)
Total	4 (100.0%)



	Mean	Standard Deviation
The course had a reasonable workload.	4,8	0,5

The workload was evenly distributed throughout the course.

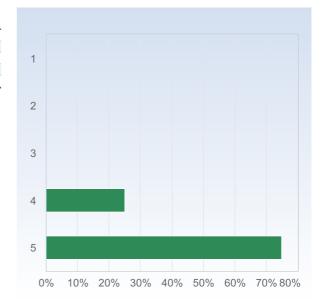
The workload was evenly distributed throughout	Number of
the course.	responses
1	0 (0,0%)
2	1 (25,0%)
3	1 (25,0%)
4	1 (25,0%)
5	1 (25,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The workload was evenly distributed throughout the course.	3,5	1,3

The examination matched the contents and level of the course.

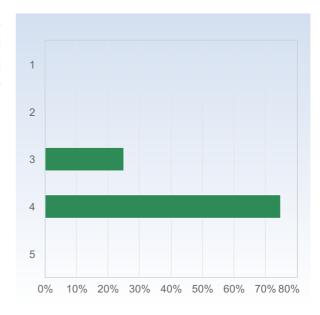
The examination matched the contents and level	Number of
of the course.	responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	1 (25,0%)
5	3 (75,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The examination matched the contents and level of the course.	4,8	0,5

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	3 (75,0%)
5	0 (0,0%)
Total	4 (100,0%)



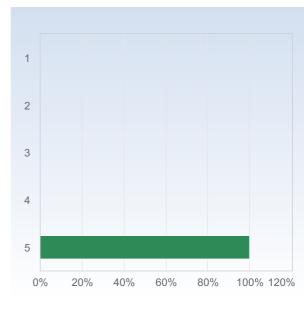
	Mean	Standard Deviation
Overall, I am satisfied with the course.	3,8	0,5

On the development of generic skills

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

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

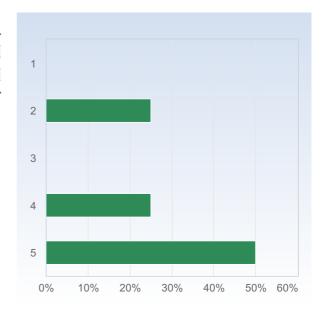
The course has increased my ability to read a mathematical text.	Number of responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	0 (0,0%)
5	4 (100,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The course has increased my ability to read a mathematical text.	5,0	0,0

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

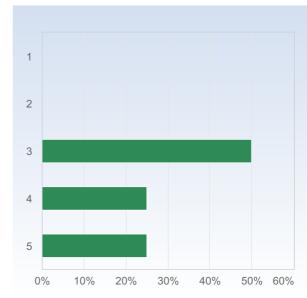
The course has increased my ability to communicate the subject in writing.	Number of responses
1	0 (0,0%)
2	1 (25,0%)
3	0 (0,0%)
4	1 (25,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The course has increased my ability to communicate the subject in writing.	4,0	1,4

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

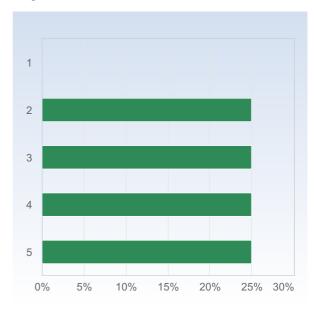
The course has increased my ability to	Number of
communicate the subject orally.	responses
1	0 (0,0%)
2	0 (0,0%)
3	2 (50,0%)
4	1 (25,0%)
5	1 (25,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The course has increased my ability to communicate the subject orally.	3,8	1,0

The course has increased my ability to cooperate.

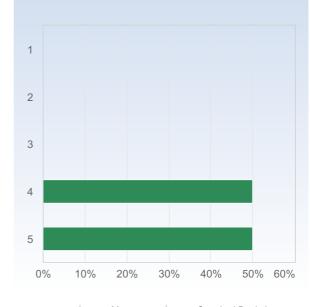
The course has increased my ability to	Number of
cooperate.	responses
1	0 (0,0%)
2	1 (25,0%)
3	1 (25,0%)
4	1 (25,0%)
5	1 (25,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The course has increased my ability to cooperate.	3,5	1,3

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

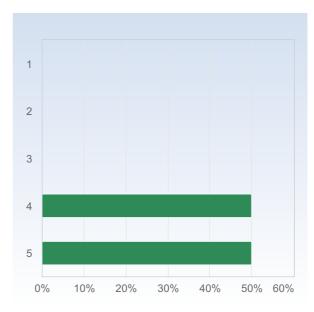
The course has increased my ability to search	Number of
and process information.	responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	2 (50,0%)
5	2 (50,0%)
Total	4 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to search and process information.	4,5	0,6

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

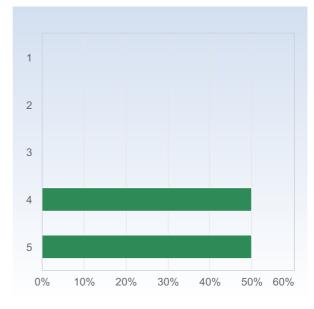
The course has increased my ability to analyze	Number of
and solve problems.	responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	2 (50,0%)
5	2 (50,0%)
Total	4 (100,0%)



	Mean	Standard Deviation
The course has increased my ability to analyze and solve problems.	4,5	0,6

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

As a result of this course, I feel confident about	Number of
tackling unfamiliar problems.	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
As a result of this course, I feel confident about tackling unfamiliar problems.	4,5	0,6

What did you appreciate most with the course?

What did you appreciate most with the course?

The expectations were clear and the exam was in line with what we learnt

Interesting problems and a knowledgeable lecturer who was great to discuss with.

The course literature was easy to follow and the overall structure of the course was nice. I had already taken quite a few maths courses as a result of my physics degree so I felt that the course was a bit easy to follow but for a new student I can imagine that it would be a very nice course

What do you think should be improved?

What do you think should be improved?

Mathematical books and texts should focus on readabilty and ease of understanding instead of deep delving. Learning the basics of what is asked and how to identify both the problem and solution should be #1, actually solving it should be #2.

Perhaps introduce some basic ideas from abstract algebra. I feel like a lot of the material became extremely close to being straight up cases of rings and fields, and that those properties were used. For example, both when introducing R and when introducing C, they were straight up proven to be fields (without explicitly stating it) and the mapping ϕ :R->R x $\{0\}$ was (almost) proven to be a field isomorphism. To add to this, there was even mention of polynomial rings without defining what a ring is, and in the polynomial chapter, there were mentions of polynomials over Z having slightly different properties than those over Q, R, and C; this again being a consequence of the last three being fields while Z is not. I feel like including something about this could further help motivate why a lot of these things are the why they are and why these notions are useful. If not much, at least in an appendix.

The scheduling has to be thought through more. If we are expected to spend 4 hours per day on this course then every other week when we had a lecture on Wednesdays it was impossible to work on exercises without working overtime or skipping lectures/seminars.

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, my teacher was very inclusive and answerd all questions possible.

No.

Nop