



LUND UNIVERSITY
Faculty of Science

Centre for Mathematical Sciences
Division of Mathematics and Numerical Analysis

Course Analysis for NUMA41 *Numerical Analysis, Basic Course*, HT 2025

Course Information

Lecturer: Mengwu Guo

Teaching assistants: Anna Rockstroh

Number of students:

17 newly registered and 6 re-registered.

6 students answered the course evaluation, among which 4 of them are enrolled in the bachelor's programme in Mathematics.

Examination (as of 2026-02-02)

Project: 19 students passed.

Oral examination: 14 students passed.

Final grades:

In all, 14 students, including 3 re-registered students, have got their final grade.

8 passed with distinction, and 6 passed.

Course Evaluation

Summary of student's answers:

Overall, the survey respondents expressed satisfaction with the course's organization and materials. The instructor is very happy to see positive feedback such as

"The lectures are possibly the best I have ever have. Very well organised, with clear communication between lecturer and students, with very clear motivation for results. I rarely felt confused during the lectures, though I was still challenged by the course materials."

Teachers' comments:

Fourteen on-campus lectures were held. Both blackboard and slides were used during the lectures. On average, about half of the registered students attended each session. Six voluntary exercises were assigned, with roughly 50% to 75% of the students completing them. The course examination consists of a programming project and an oral exam, both carried out in pairs. The setting of two versions (pre-lecture and complete) of lecture notes is again well-received by the students.

Changes from the previous course realisation:

Minor refinements on the lecture notes; slower pace on important theoretical discussions; added task in the final project for more thorough coverage of course contents.

Suggestions for the next course realisation:

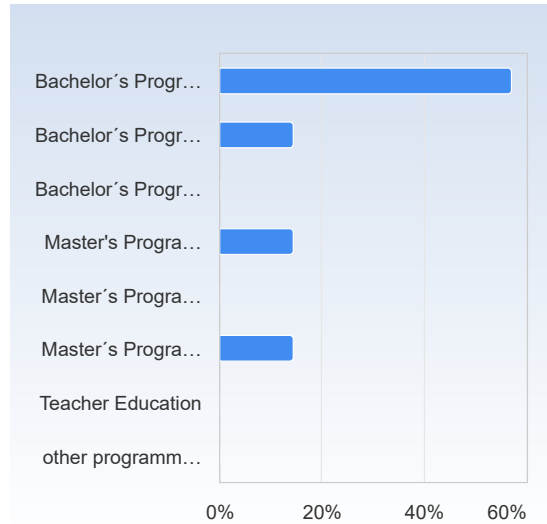
Make room for discussing the last two assignments in the class. Also, the discussions of assignments can benefit from a more interactive form.

NUMA41HT25 Numerical Analysis: Basic Course

Respondents: 29
 Answer Count: 6
 Answer Frequency: 20.69%

I have studied this course as part of

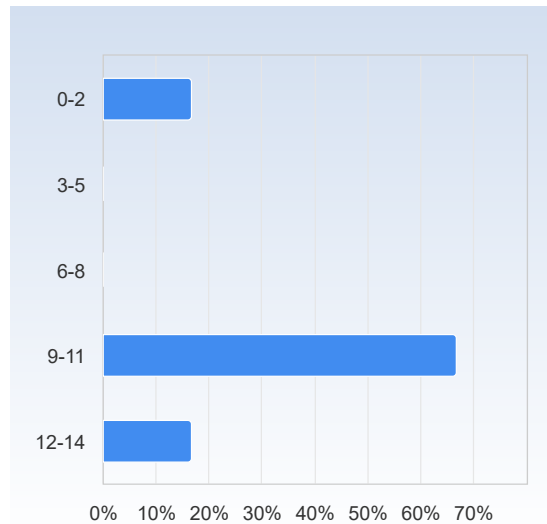
I have studied this course as part of	Number of responses
Bachelor's Programme in Mathematics	4 (66.7%)
Bachelor's Programme in Physics, Theoretical Physics, Astronomy	1 (16.7%)
Bachelor's Programme, other specialization	0 (0.0%)
Master's Programme in Mathematics	1 (16.7%)
Master's Programme in Mathematical Statistics	0 (0.0%)
Master's Programme, other specialization	1 (16.7%)
Teacher Education	0 (0.0%)
other programme or as stand alone course	0 (0.0%)
Total	7 (116.7%)



I have studied this course as part of	Mean	Standard Deviation
I have studied this course as part of	2.3	2.0

How many lectures did you attend? (Note: the whole survey is strictly anonymous.)

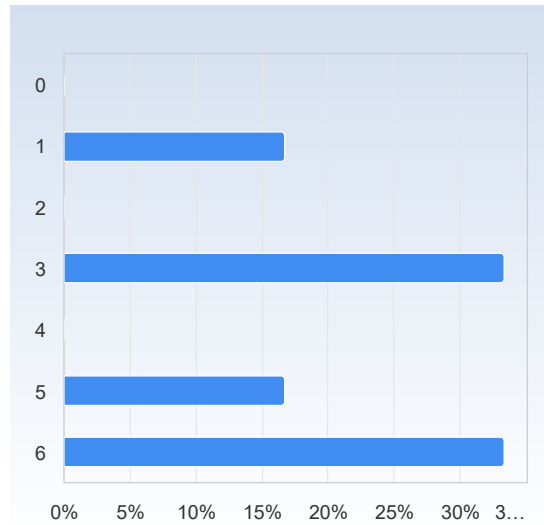
How many lectures did you attend? (Note: the whole survey is strictly anonymous.)	Number of responses
0-2	1 (16.7%)
3-5	0 (0.0%)
6-8	0 (0.0%)
9-11	4 (66.7%)
12-14	1 (16.7%)
Total	6 (100.0%)



How many lectures did you attend? (Note: the whole survey is strictly anonymous.)	Mean	Standard Deviation
How many lectures did you attend? (Note: the whole survey is strictly anonymous.)	9.0	4.1

How many assignments did you finish and submit? (Note: the whole survey is strictly anonymous.)

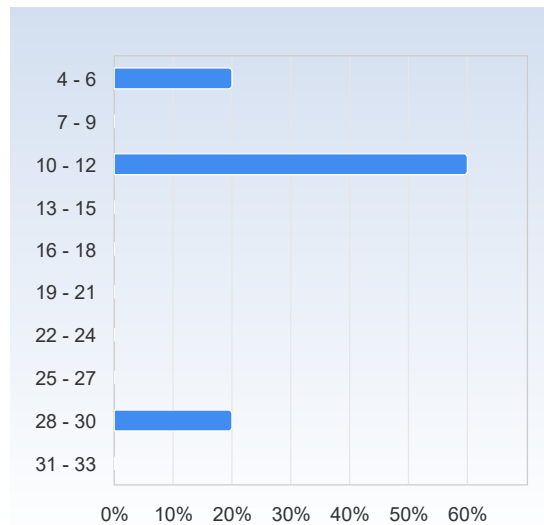
How many assignments did you finish and submit? (Note: the whole survey is strictly anonymous.)	Number of responses
0	0 (0.0%)
1	1 (16.7%)
2	0 (0.0%)
3	2 (33.3%)
4	0 (0.0%)
5	1 (16.7%)
6	2 (33.3%)
Total	6 (100.0%)



	Mean	Standard Deviation
How many assignments did you finish and submit? (Note: the whole survey is strictly anonymous.)	4.0	2.0

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

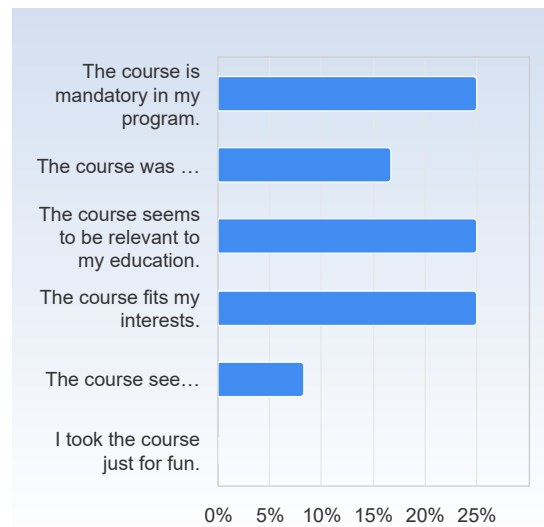
Average number of hours spent in total on the course per week (including scheduled activities):	Number of responses
4 - 6	1 (20.0%)
7 - 9	0 (0.0%)
10 - 12	3 (60.0%)
13 - 15	0 (0.0%)
16 - 18	0 (0.0%)
19 - 21	0 (0.0%)
22 - 24	0 (0.0%)
25 - 27	0 (0.0%)
28 - 30	1 (20.0%)
31 - 33	0 (0.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
Average number of hours spent in total on the course per week (including scheduled activities):	13.6	9.4

Why did you sign up for the course? (Multiple answers possible)

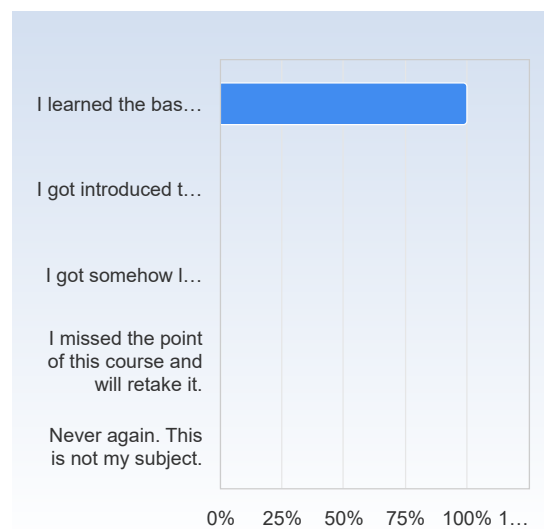
Why did you sign up for the course? (Multiple answers possible)	Number of responses
The course is mandatory in my program.	3 (50.0%)
The course was strongly recommended in my program /specialization.	2 (33.3%)
The course seems to be relevant to my education.	3 (50.0%)
The course fits my interests.	3 (50.0%)
The course seems to improve my chances on the job market.	1 (16.7%)
I took the course just for fun.	0 (0.0%)
Total	12 (200.0%)



Why did you sign up for the course? (Multiple answers possible)	Mean	Standard Deviation
	2.8	1.4

Now that the course is concluded, my impression is that...

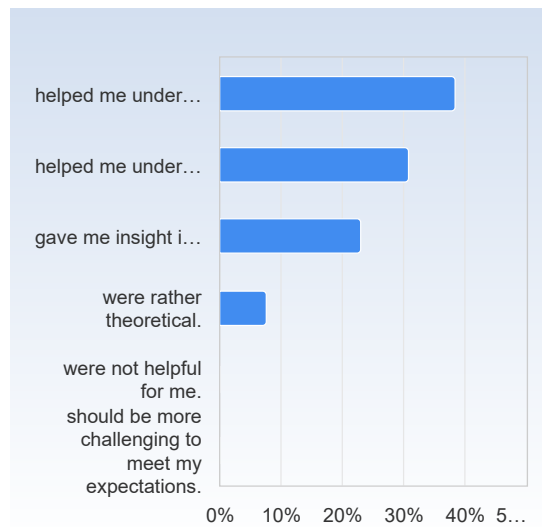
Now that the course is concluded, my impression is that...	Number of responses
I learned the basics of numerical analysis, and I am able to apply this knowledge to computational tasks.	6 (100.0%)
I got introduced to topics in numerical analysis, but I need to dive deeper to fully understand all contents of the course.	0 (0.0%)
I got somehow lost during the course, but I think I will catch up.	0 (0.0%)
I missed the point of this course and will retake it.	0 (0.0%)
Never again. This is not my subject.	0 (0.0%)
Total	6 (100.0%)



Now that the course is concluded, my impression is that...	Mean	Standard Deviation
	1.0	0.0

The lectures (Multiple answers possible)

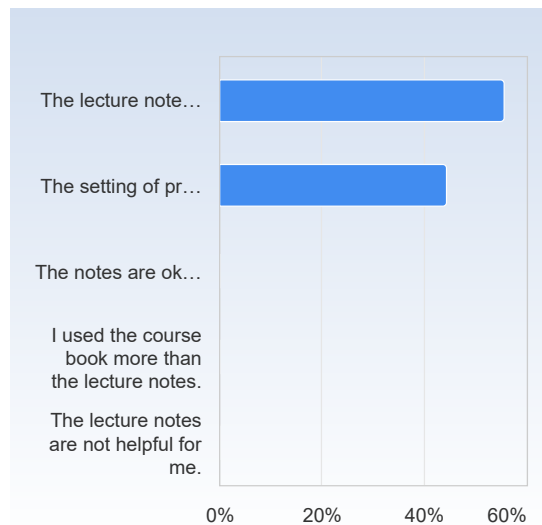
The lectures (Multiple answers possible)	Number of responses
helped me understand mathematical concepts and details.	5 (83.3%)
helped me understand the connections among relevant concepts and methods.	4 (66.7%)
gave me insight into alternative interpretations and intuitions.	3 (50.0%)
were rather theoretical.	1 (16.7%)
were not helpful for me.	0 (0.0%)
should be more challenging to meet my expectations.	0 (0.0%)
Total	13 (216.7%)



	Mean	Standard Deviation
The lectures (Multiple answers possible)	2.0	1.0

What do you think about the lecture notes? (Multiple answers possible)

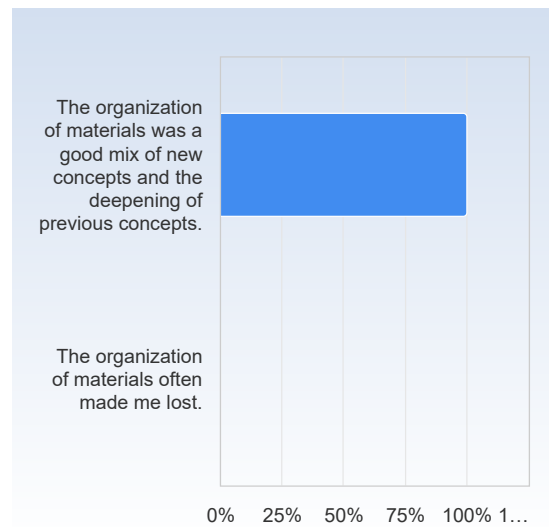
What do you think about the lecture notes? (Multiple answers possible)	Number of responses
The lecture notes are clearly written and useful for my studies.	5 (83.3%)
The setting of pre-lecture + completed notes is helpful for my studies.	4 (66.7%)
The notes are ok, but I do not have specific feelings about them.	0 (0.0%)
I used the course book more than the lecture notes.	0 (0.0%)
The lecture notes are not helpful for me.	0 (0.0%)
Total	9 (150.0%)



	Mean	Standard Deviation
What do you think about the lecture notes? (Multiple answers possible)	2.7	1.6

What do you think about the organization of course materials?

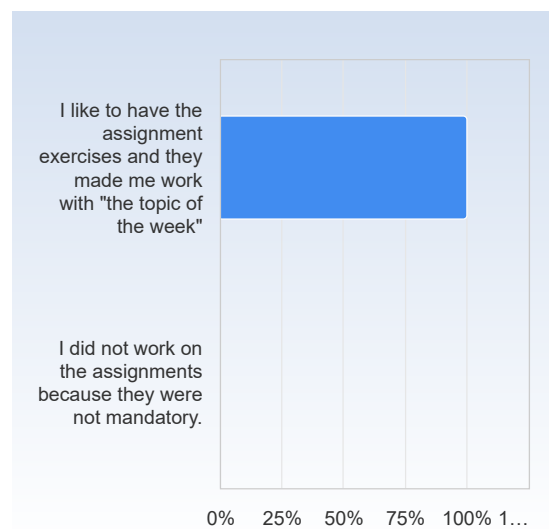
What do you think about the organization of course materials?	Number of responses
The organization of materials was a good mix of new concepts and the deepening of previous concepts.	6 (100.0%)
The organization of materials often made me lost.	0 (0.0%)
Total	6 (100.0%)



	Mean	Standard Deviation
What do you think about the organization of course materials?	1.0	0.0

What do you think about the assignments?

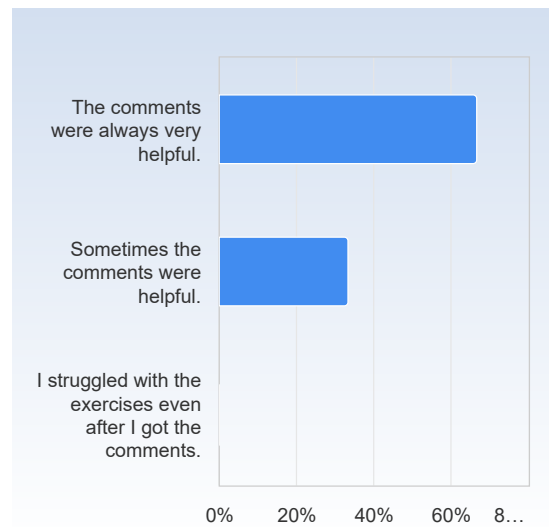
What do you think about the assignments?	Number of responses
I like to have the assignment exercises and they made me work with "the topic of the week"	6 (100.0%)
I did not work on the assignments because they were not mandatory.	0 (0.0%)
Total	6 (100.0%)



	Mean	Standard Deviation
What do you think about the assignments?	1.0	0.0

What do you think about the feedback you received for your submitted assignments?

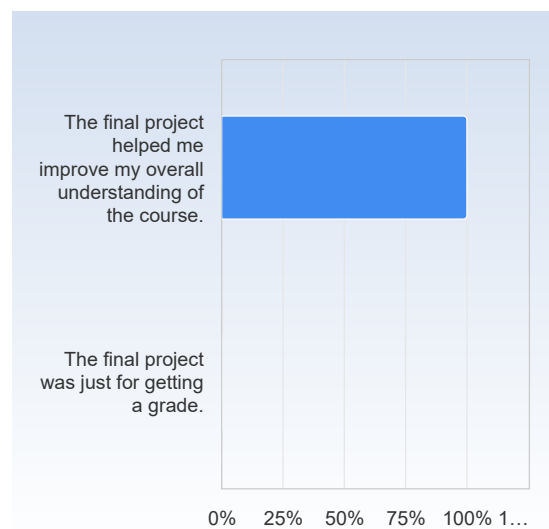
What do you think about the feedback you received for your submitted assignments?	Number of responses
The comments were always very helpful.	4 (66.7%)
Sometimes the comments were helpful.	2 (33.3%)
I struggled with the exercises even after I got the comments.	0 (0.0%)
Total	6 (100.0%)



What do you think about the feedback you received for your submitted assignments?	Mean	Standard Deviation
	1.3	0.5

What do you think about the final project?

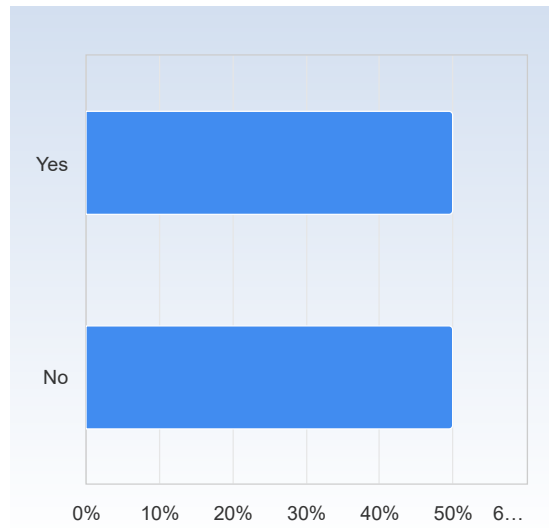
What do you think about the final project?	Number of responses
The final project helped me improve my overall understanding of the course.	6 (100.0%)
The final project was just for getting a grade.	0 (0.0%)
Total	6 (100.0%)



What do you think about the final project?	Mean	Standard Deviation
	1.0	0.0

I found it helpful to work in pair for the assignments and the final project.

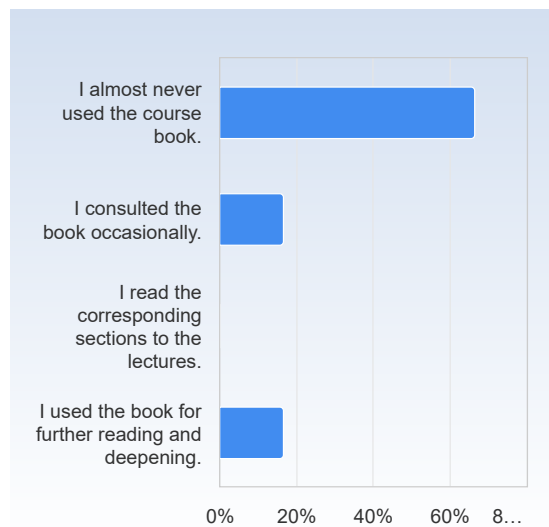
I found it helpful to work in pair for the assignments and the final project.	Number of responses
Yes	3 (50.0%)
No	3 (50.0%)
Total	6 (100.0%)



	Mean	Standard Deviation
I found it helpful to work in pair for the assignments and the final project.	1.5	0.5

How did you use the course book?

How did you use the course book?	Number of responses
I almost never used the course book.	4 (66.7%)
I consulted the book occasionally.	1 (16.7%)
I read the corresponding sections to the lectures.	0 (0.0%)
I used the book for further reading and deepening.	1 (16.7%)
Total	6 (100.0%)



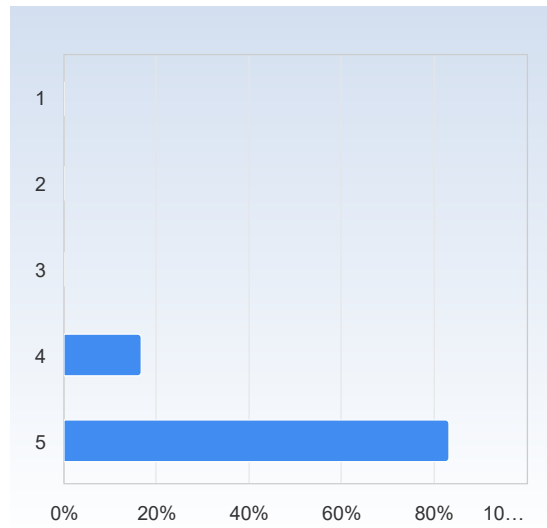
	Mean	Standard Deviation
How did you use the course book?	1.7	1.2

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.

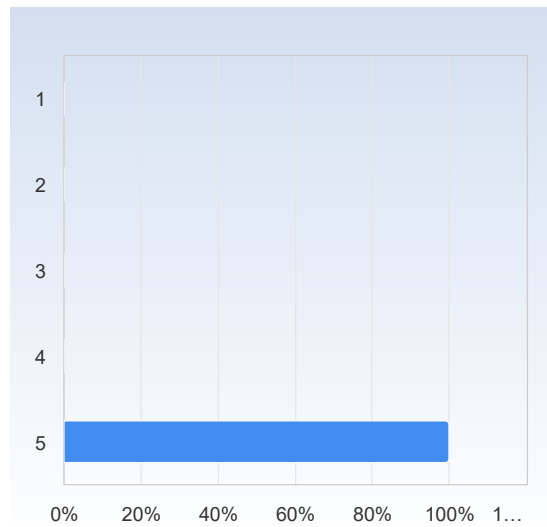
The way the course was taught and organised suited me.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (16.7%)
5	5 (83.3%)
Total	6 (100.0%)



	Mean	Standard Deviation
The way the course was taught and organised suited me.	4.8	0.4

The lectures were valuable for my learning.

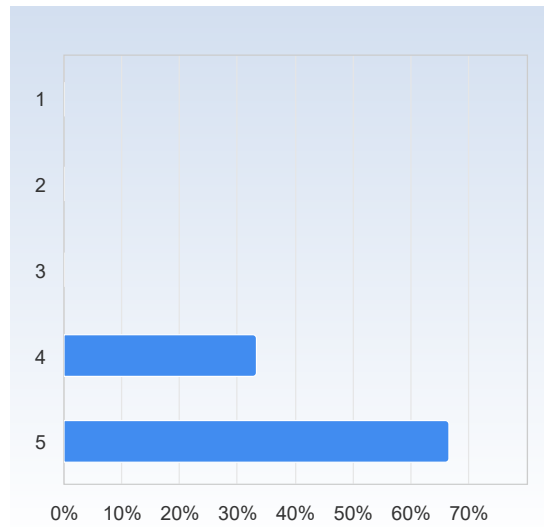
The lectures were valuable for my learning.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	5 (100.0%)
Total	5 (100.0%)



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

The lecture notes were a valuable learning resource.

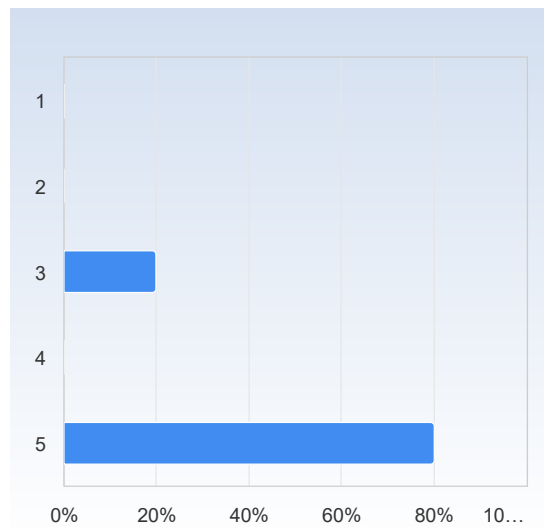
The lecture notes were a valuable learning resource.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	2 (33.3%)
5	4 (66.7%)
Total	6 (100.0%)



	Mean	Standard Deviation
The lecture notes were a valuable learning resource.	4.7	0.5

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

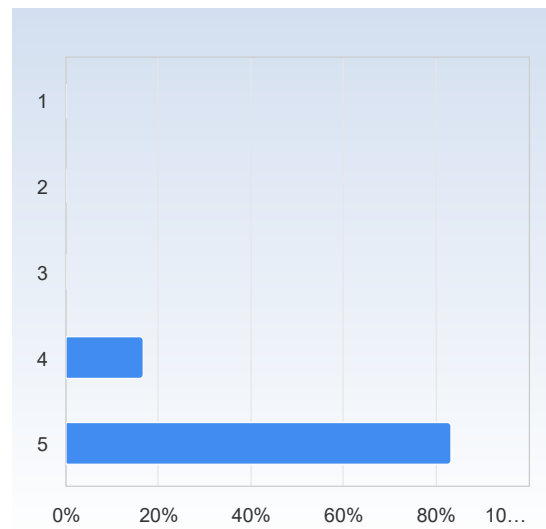
The communication with the teaching staff during the course was good.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (20.0%)
4	0 (0.0%)
5	4 (80.0%)
Total	5 (100.0%)



	Mean	Standard Deviation
The communication with the teaching staff during the course was good.	4.6	0.9

The course had a reasonable workload.

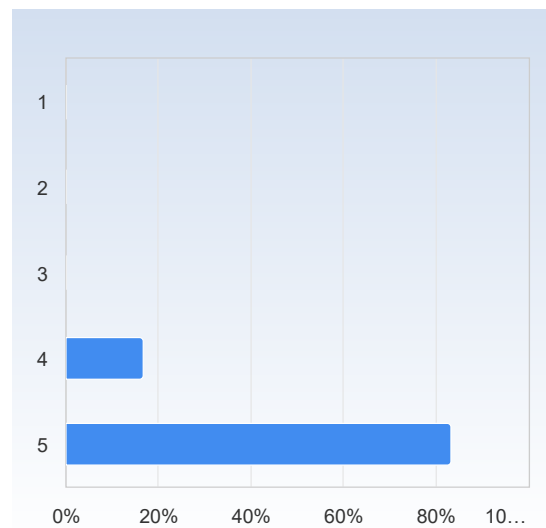
The course had a reasonable workload.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (16.7%)
5	5 (83.3%)
Total	6 (100.0%)



	Mean	Standard Deviation
The course had a reasonable workload.	4.8	0.4

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	1 (16.7%)
5	5 (83.3%)
Total	6 (100.0%)



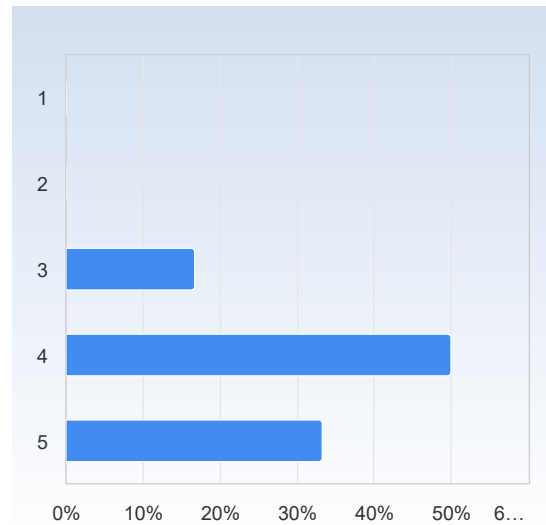
	Mean	Standard Deviation
Overall, I am satisfied with the course.	4.8	0.4

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 communicate mathematics orally and/or in writing.

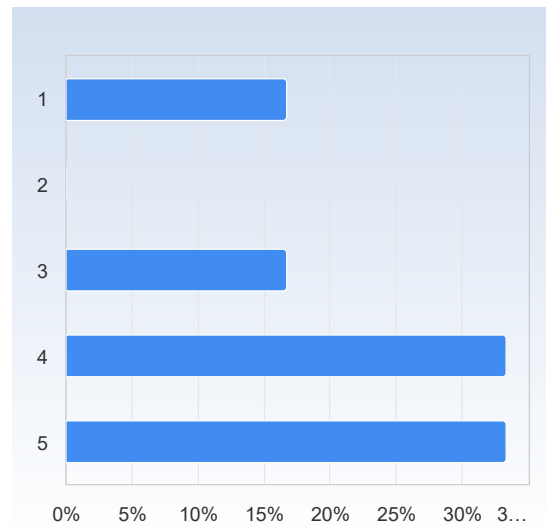
The course has increased my ability to communicate mathematics orally and/or in writing.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (16.7%)
4	3 (50.0%)
5	2 (33.3%)
Total	6 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to communicate mathematics orally and/or in writing.	4.2	0.8

The course has increased my ability to collaborate with peers.

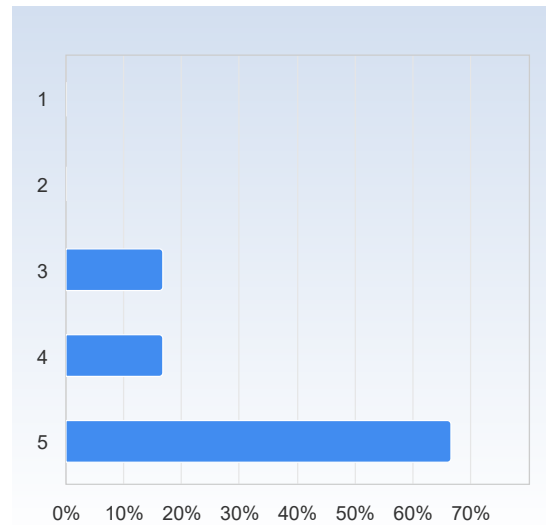
The course has increased my ability to collaborate with peers.	Number of responses
1	1 (16.7%)
2	0 (0.0%)
3	1 (16.7%)
4	2 (33.3%)
5	2 (33.3%)
Total	6 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to collaborate with peers.	3.7	1.5

The course has increased my ability to process information.

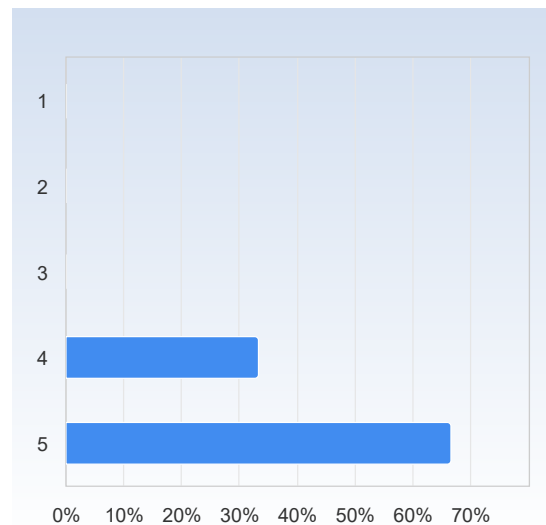
The course has increased my ability to process information.	Number of responses
1	0 (0.0%)
2	0 (0.0%)
3	1 (16.7%)
4	1 (16.7%)
5	4 (66.7%)
Total	6 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to process information.	4.5	0.8

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	2 (33.3%)
5	4 (66.7%)
Total	6 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to analyze and solve problems.	4.7	0.5

What do you appreciate in the course?

- What do you appreciate in the course?
- I appreciated the clear teaching and well-organized lectures. I appreciated the lecture slides/notes, they were informative and very helpful, especially during the lectures when you could follow and fill the blanks. The project also helped me understand the concepts on a deeper level, and the connections between them.
 - all
 - The lectures are possibly the best I have ever have. Very well organised, with clear communication between lecturer and students, with very clear motivation for results. I rarely felt confused during the lectures, though I was still challenged by the course materials.
 - Final project was great, lots of depth. Appreciated lectures, including the slower pacing + integration with slides.

Do you have any suggestions? Please let us know.

Do you have any suggestions? Please let us know.

Later assignments (4, 5, 6) were hard to complete satisfactory within the allotted time limit. Earlier assignments on the other hand seemed a bit disconnected to the main focus of the course (i.e. what is discussed in later lectures/assignments).

no

No I'm overall satisfied. Maybe be allowed to do project/oral exam alone

More programming and less theory