

## Summary of the course evaluation made for NUMA01 autumn 2020

During the autumn term 2020 the course NUMA01 had a total of 140 registered students, 30 of these were reregistered students. The number of students that passed the examination was 78.

Since the course took place during the Corona-pandemic, all lectures, all training sessions, and all oral parts of the examination, were conducted through video conferences.

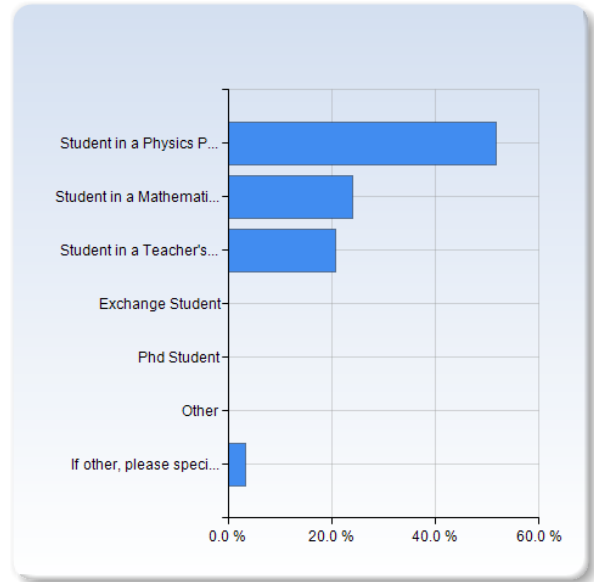
After the examination all students were given the opportunity to make a course evaluation, only 29 students did it. A summary of their answers is given below.

## NUMA01- autumn 2020

Answer Count: 29

### Your role in the course?

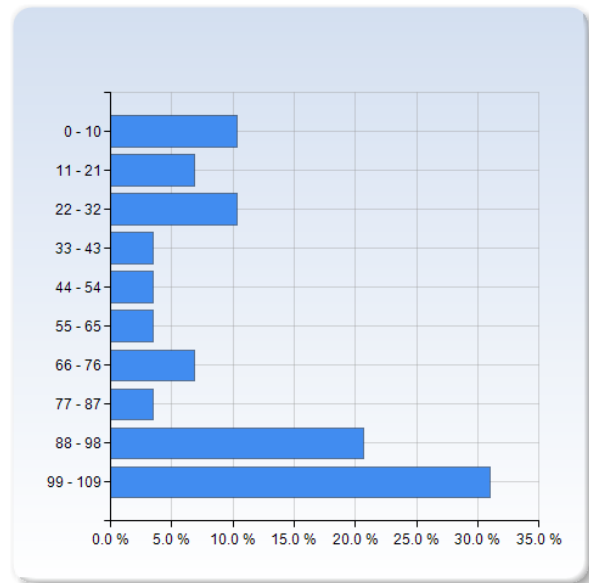
Your role in the course?	Number of Responses
Student in a Physics Program	15 (51.7%)
Student in a Mathematics Program	7 (24.1%)
Student in a Teacher's Program	6 (20.7%)
Exchange Student	0 (0.0%)
Phd Student	0 (0.0%)
Other	0 (0.0%)
If other, please specify	1 (3.4%)
Total	29 (100.0%)



Your role in the course?	Mean	Standard Deviation
Your role in the course?	1.9	1.3

## Your participation in the lectures.

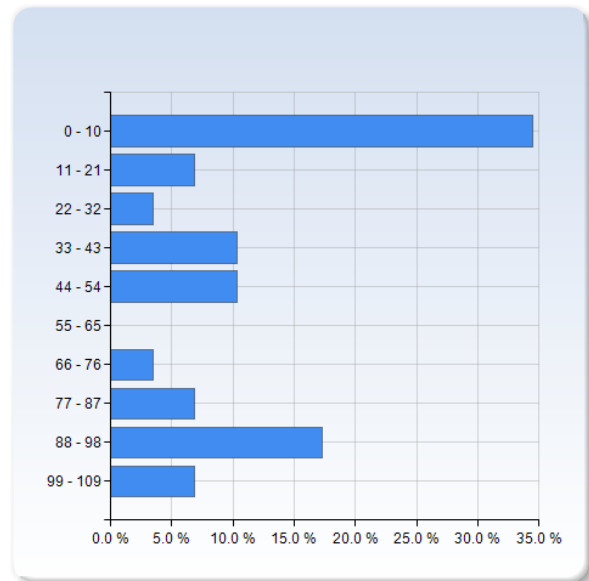
Your participation in the lectures.	Number of Responses
0 - 10	3 (10.3%)
11 - 21	2 (6.9%)
22 - 32	3 (10.3%)
33 - 43	1 (3.4%)
44 - 54	1 (3.4%)
55 - 65	1 (3.4%)
66 - 76	2 (6.9%)
77 - 87	1 (3.4%)
88 - 98	6 (20.7%)
99 - 109	9 (31.0%)
Total	29 (100.0%)



Your participation in the lectures.	Mean	Standard Deviation
Your participation in the lectures.	67.2	35.3

## Your participation in the training exercises.

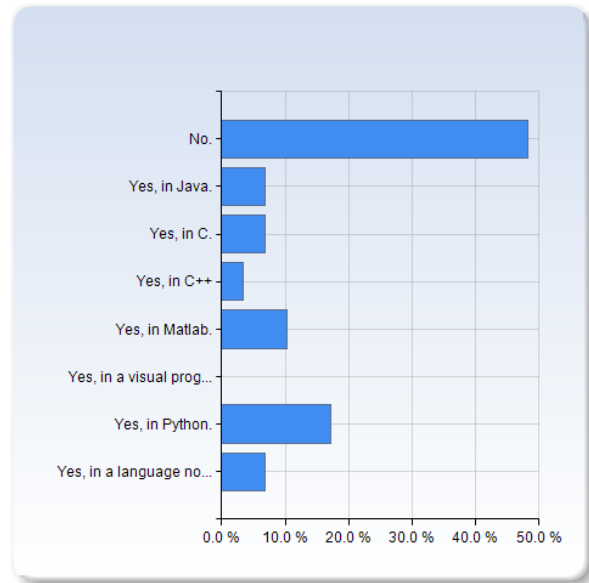
Your participation in the training exercises.	Number of Responses
0 - 10	10 (34.5%)
11 - 21	2 (6.9%)
22 - 32	1 (3.4%)
33 - 43	3 (10.3%)
44 - 54	3 (10.3%)
55 - 65	0 (0.0%)
66 - 76	1 (3.4%)
77 - 87	2 (6.9%)
88 - 98	5 (17.2%)
99 - 109	2 (6.9%)
Total	29 (100.0%)



Your participation in the training exercises.	Mean	Standard Deviation
Your participation in the training exercises.	44.0	37.4

## Have you ever have written a computer program before the course start? (Please give the most relevant answer)

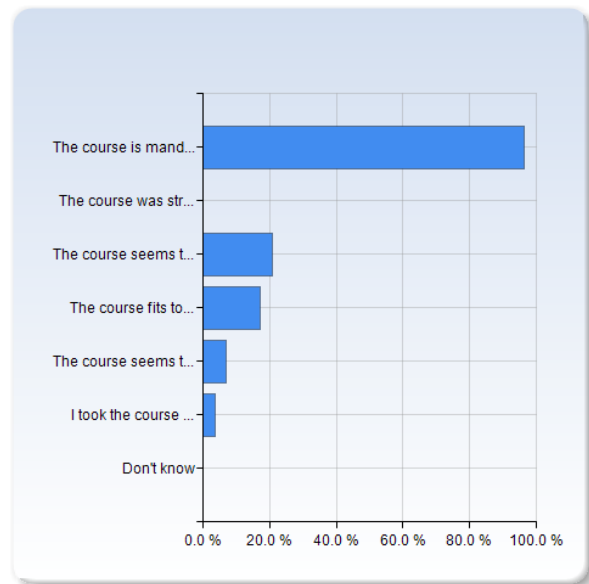
Have you ever have written a computer program before the course start? (Please give the most relevant answer)	Number of Responses
No.	14 (48.3%)
Yes, in Java.	2 (6.9%)
Yes, in C.	2 (6.9%)
Yes, in C++	1 (3.4%)
Yes, in Matlab.	3 (10.3%)
Yes, in a visual programming language, like Snap! .	0 (0.0%)
Yes, in Python.	5 (17.2%)
Yes, in a language not listet.	2 (6.9%)
Total	29 (100.0%)



	Mean	Standard Deviation
Have you ever have written a computer program before the course start? (Please give the most relevant answer)	3.2	2.7

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

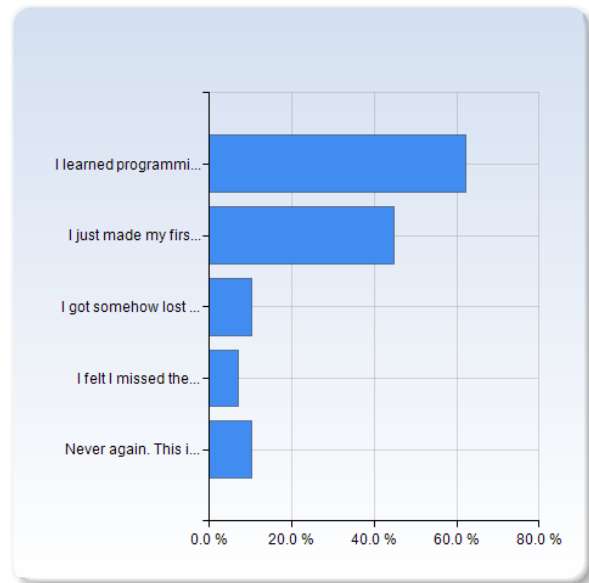
Why did you sign up for the course? (several answers possible)	Number of Responses
The course is mandatory in my program.	28 (96.6%)
The course was strongly recommended in my program.	0 (0.0%)
The course seems to be relevant for my education.	6 (20.7%)
The course fits to my interests.	5 (17.2%)
The course seems to improve my chances on the work market.	2 (6.9%)
I took the course just for fun.	1 (3.4%)
Don't know	0 (0.0%)
Total	42 (144.8%)



	Mean	Standard Deviation
Why did you sign up for the course? (several answers possible)	2.0	1.5

## Now that the lectures are done, my impression is.....

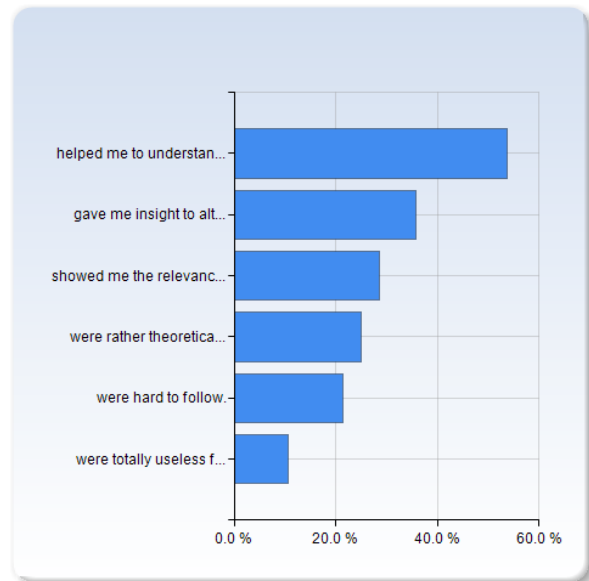
Now that the lectures are done, my impression is.....	Number of Responses
I learned programming and I feel that can manage to write programs in mathematics and physics.	18 (62.1%)
I just made my first steps and got motivated to dive deeper into the subject.	13 (44.8%)
I got somehow lost during the course, but I think I will catch up.	3 (10.3%)
I felt I missed the point with this course and will retake it.	2 (6.9%)
Never again. This is not my subject.	3 (10.3%)
Total	39 (134.5%)



Now that the lectures are done, my impression is.....	Mean	Standard Deviation
	1.9	1.2

## The lectures ....

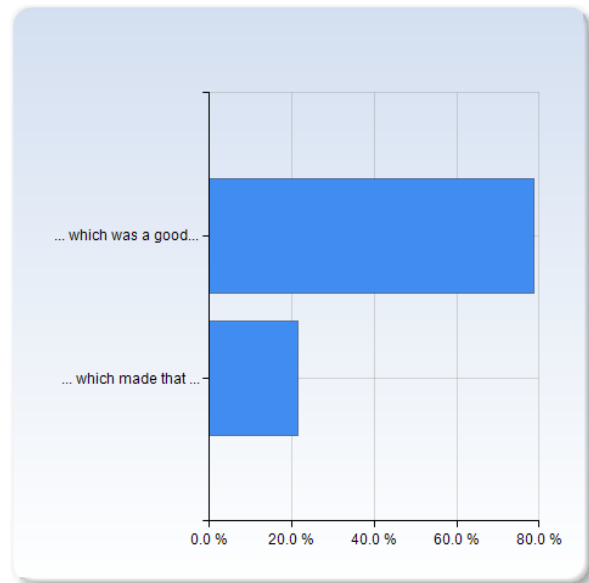
The lectures ....	Number of Responses
helped me to understand concepts and details.	15 (53.6%)
gave me insight to alternative solution approaches.	10 (35.7%)
showed me the relevance of programming in mathematics/physics.	8 (28.6%)
were rather theoretical.	7 (25.0%)
were hard to follow.	6 (21.4%)
were totally useless for me.	3 (10.7%)
Total	49 (175.0%)



The lectures ....	Mean	Standard Deviation
	2.8	1.6

## The material used during lectures was ordered in a way ...

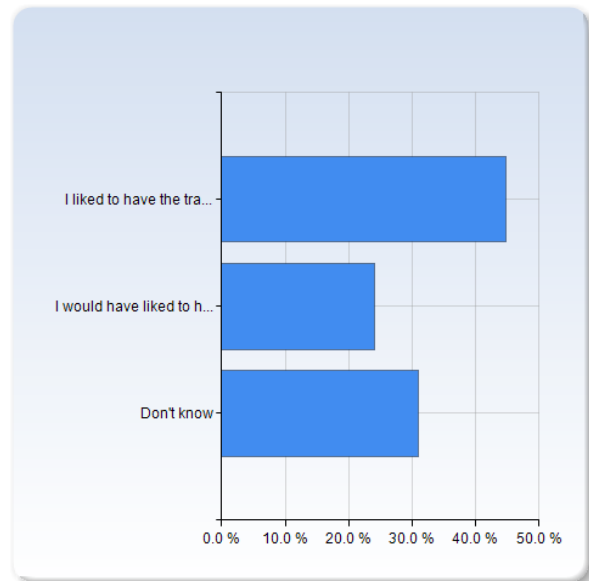
The material used during lectures was ordered in a way ...	Number of Responses
... which was a good mix of new concepts and deepening of concepts from previous lectures.	22 (78.6%)
... which made that I often felt lost.	6 (21.4%)
Total	28 (100.0%)



	Mean	Standard Deviation
The material used during lectures was ordered in a way ...	1.2	0.4

## Trainings Exercises

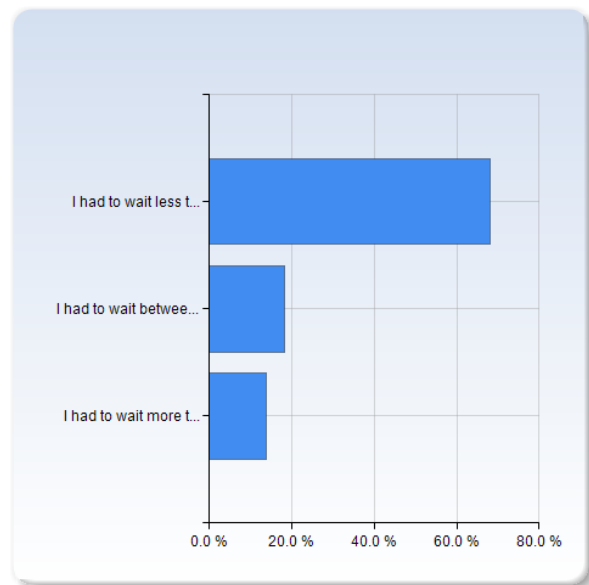
Trainings Exercises	Number of Responses
I liked to have the trainings exercises directly after the lectures and that they made me work with "the topic of the day".	13 (44.8%)
I would have liked to have a distance of at least one day between new material and the training.	7 (24.1%)
Don't know	9 (31.0%)
Total	29 (100.0%)



	Mean	Standard Deviation
Trainings Exercises	1.4	0.5

## Support

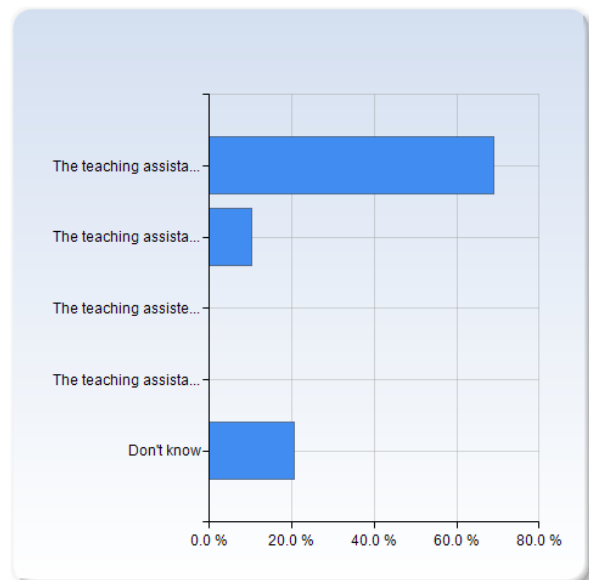
Support	Number of Responses
I had to wait less than 5 minutes for support during the training exercises	15 (68.2%)
I had to wait between 5 and 15 minutes	4 (18.2%)
I had to wait more than 15 minutes until a teaching assistant helped me.	3 (13.6%)
Total	22 (100.0%)



	Mean	Standard Deviation
Support	1.5	0.7

## Competence

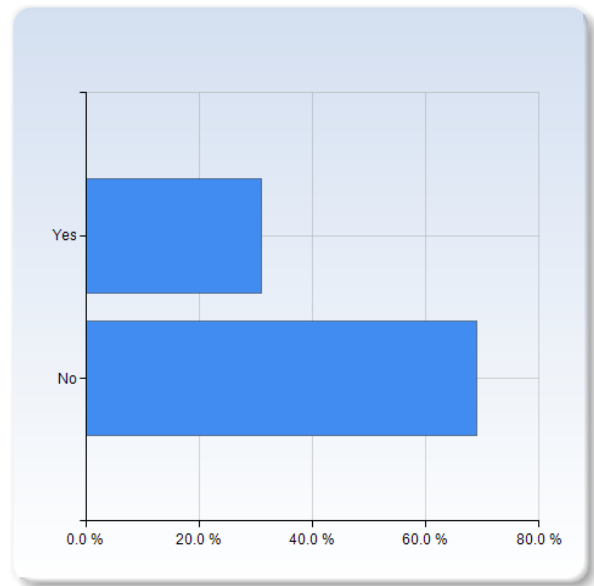
Competence	Number of Responses
The teaching assistants were competent.	20 (69.0%)
The teaching assistant sometimes could not answer but found another one to help.	3 (10.3%)
The teaching assistants tried there best but gave me often wrong answers.	0 (0.0%)
The teaching assistants did not care.	0 (0.0%)
Don't know	6 (20.7%)
Total	29 (100.0%)



	Mean	Standard Deviation
Competence	1.1	0.3

## Taining exercises. I worked in a group.

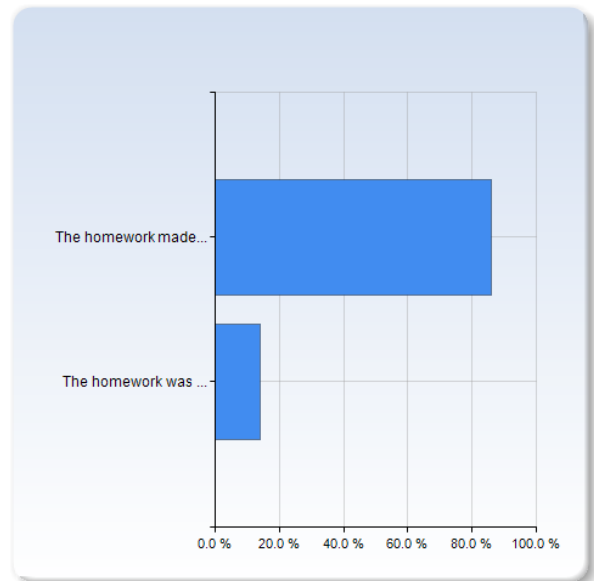
Taining exercises. I worked in a group.	Number of Responses
Yes	9 (31.0%)
No	20 (69.0%)
Total	29 (100.0%)



Taining exercises. I worked in a group.	Mean	Standard Deviation
	1.7	0.5

## Homework

Homework	Number of Responses
The homework made me improve my knowledge.	25 (86.2%)
The homework was just for getting a grade.	4 (13.8%)
Total	29 (100.0%)

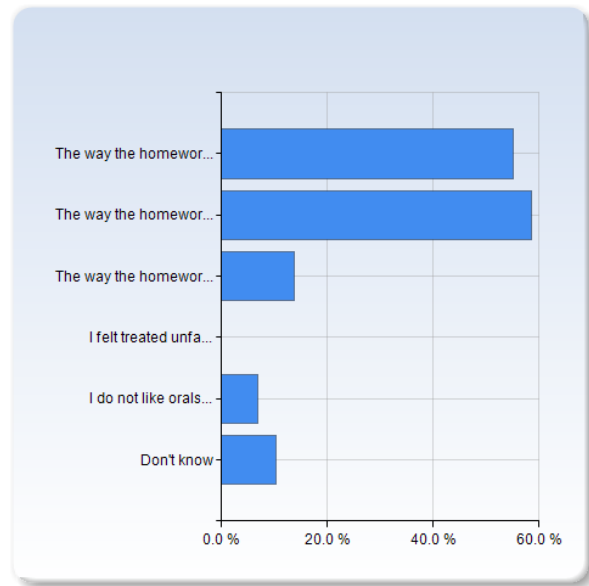


Homework	Mean	Standard Deviation
	1.1	0.4



## The homework presentations.

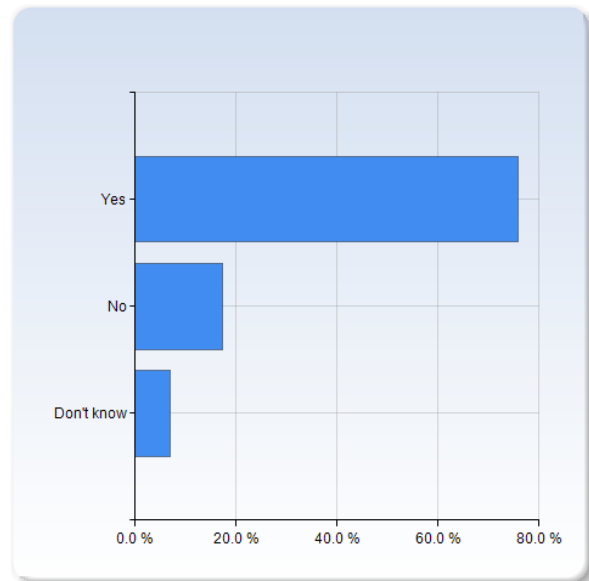
The homework presentations.	Number of Responses
The way the homeworks were presented gave me a chance to get extra feedback.	16 (55.2%)
The way the homeworks were presented gave me a chance to show and test my knowledge.	17 (58.6%)
The way the homework was presented did not match to my effort I put into this work.	4 (13.8%)
I felt treated unfair.	0 (0.0%)
I do not like orals with teaching assistants.	2 (6.9%)
Don't know	3 (10.3%)
Total	42 (144.8%)



The homework presentations.	Mean	Standard Deviation
	1.8	1.0

## I found it helpfull to work in groups for the homework

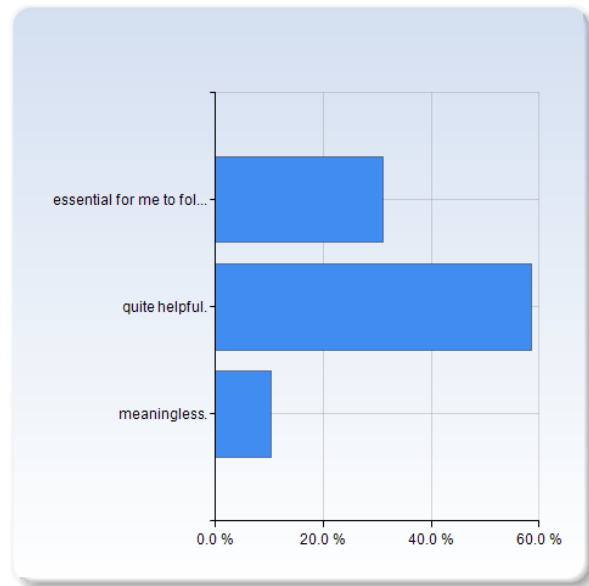
I found it helpfull to work in groups for the homework	Number of Responses
Yes	22 (75.9%)
No	5 (17.2%)
Don't know	2 (6.9%)
Total	29 (100.0%)



I found it helpfull to work in groups for the homework	Mean	Standard Deviation
	1.2	0.4

## Course material. The slides and Jupyter Notebook files were ...

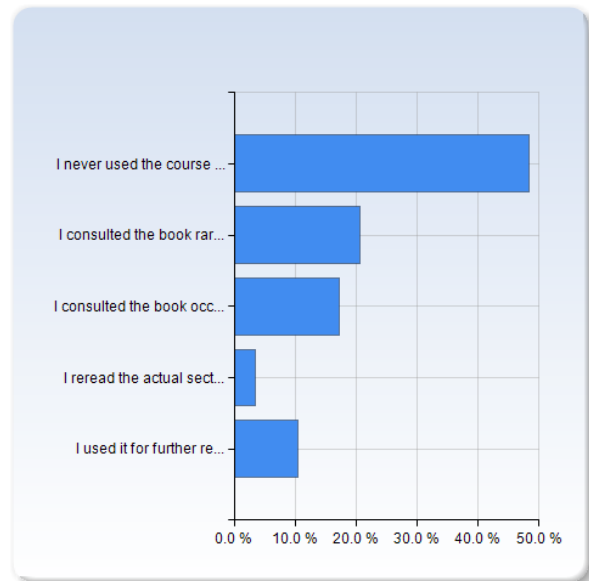
Course material. The slides and Jupyter Notebook files were ...	Number of Responses
essential for me to follow the course.	9 (31.0%)
quite helpful.	17 (58.6%)
meaningless.	3 (10.3%)
Total	29 (100.0%)



	Mean	Standard Deviation
Course material. The slides and Jupyter Notebook files were ...	1.8	0.6

## The course book.

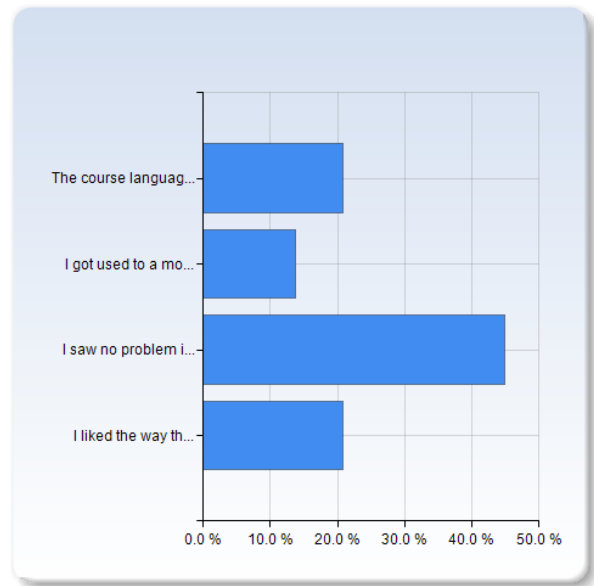
The course book.	Number of Responses
I never used the course book.	14 (48.3%)
I consulted the book rarely.	6 (20.7%)
I consulted the book occasionally.	5 (17.2%)
I reread the actual sections of the lecture in the course book.	1 (3.4%)
I used it for further reading and deepening.	3 (10.3%)
Total	29 (100.0%)



	Mean	Standard Deviation
The course book.	2.1	1.3

## Course style. Language

Course style. Language	Number of Responses
The course language was to "mathematical".	6 (20.7%)
I got used to a more mathematical language.	4 (13.8%)
I saw no problem in the way the material was communicated.	13 (44.8%)
I liked the way the material was communicated.	6 (20.7%)
Total	29 (100.0%)



Course style. Language	Mean	Standard Deviation
	2.7	1.0