Comments to the course evaluation: NUMN01 *Computational Programming with Python* vt 2020

Course responsible: Claus Führer
Other teacher(s): Malin Christersson

Number of students: 95
Number of students who completed the course: 61
Number of Course evaluation responses: 19

Course Evaluation Link:
https://sunet.artologik.net/lu/report/26247

Comments:
This was for the teacher and the students one of the first courses under „Corona condtions“. That’s why a couple of related questions were added to the way of teaching.
The students reported that they prefered to participate synchronous to the lectures via zoom rather than looking at the recorded lectures, that were made accessible optionally.

2 of 19 responses indicated that the course was for them more or less „useless“, which I noticed with regret.

Other reactions on the course, its teaching style and the work with teaching assistants were mainly positive and within the range of answers to previous courses.

I noted also, that in such a programming course, written course material like the course book or even the slides are not necessarily the main source of information. This was expected.

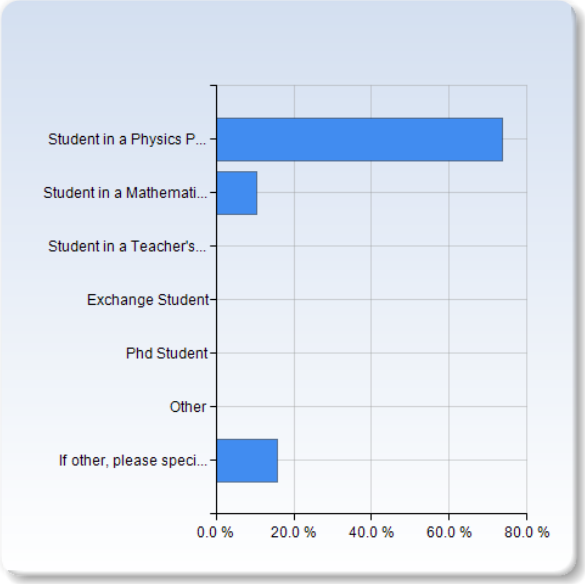
2021-03-30, compiled by Claus Führer

NUMA01-VT2020

Respondents: 97
Answer Count: 19
Answer Frequency: 19.59%

Your role in the course?

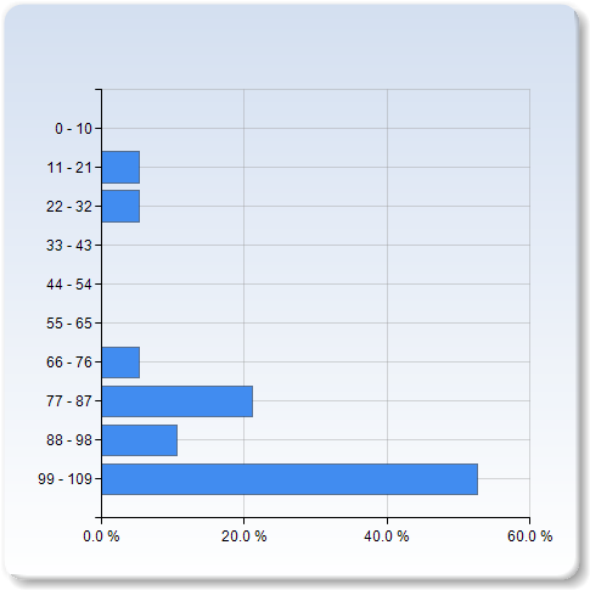
Your role in the course?	Number of Responses
Student in a Physics Program	14 (73.7%)
Student in a Mathematics Program	2 (10.5%)
Student in a Teacher's Program	0 (0.0%)
Exchange Student	0 (0.0%)
Phd Student	0 (0.0%)
Other	0 (0.0%)
If other, please specify	3 (15.8%)
Total	19 (100.0%)



	Mean	Standard Deviation
Your role in the course?	2.1	2.2

Your participation in the lectures.

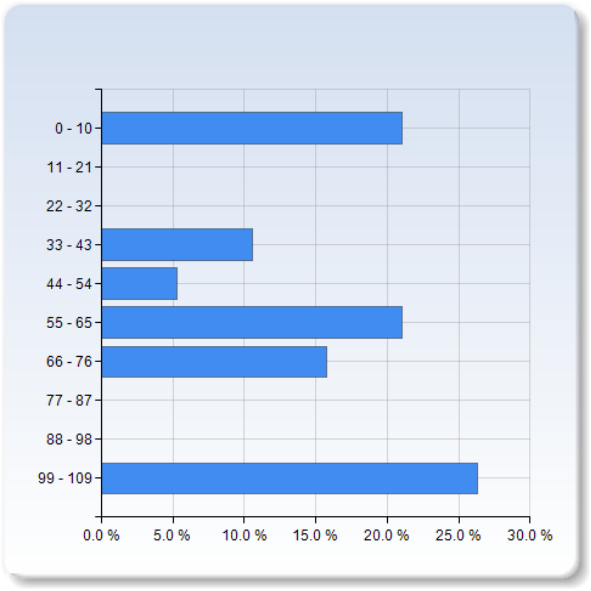
Your participation in the lectures.	Number of Responses
0 - 10	0 (0.0%)
11 - 21	1 (5.3%)
22 - 32	1 (5.3%)
33 - 43	0 (0.0%)
44 - 54	0 (0.0%)
55 - 65	0 (0.0%)
66 - 76	1 (5.3%)
77 - 87	4 (21.1%)
88 - 98	2 (10.5%)
99 - 109	10 (52.6%)
Total	19 (100.0%)



	Mean	Standard Deviation
Your participation in the lectures.	85.3	23.4

Your participation in the training exercises.

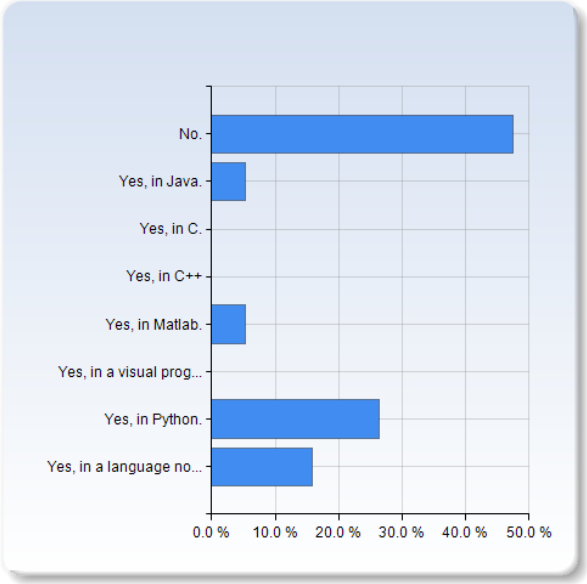
Your participation in the training exercises.	Number of Responses
0 - 10	4 (21.1%)
11 - 21	0 (0.0%)
22 - 32	0 (0.0%)
33 - 43	2 (10.5%)
44 - 54	1 (5.3%)
55 - 65	4 (21.1%)
66 - 76	3 (15.8%)
77 - 87	0 (0.0%)
88 - 98	0 (0.0%)
99 - 109	5 (26.3%)
Total	19 (100.0%)



	Mean	Standard Deviation
Your participation in the training exercises.	57.6	35.5

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

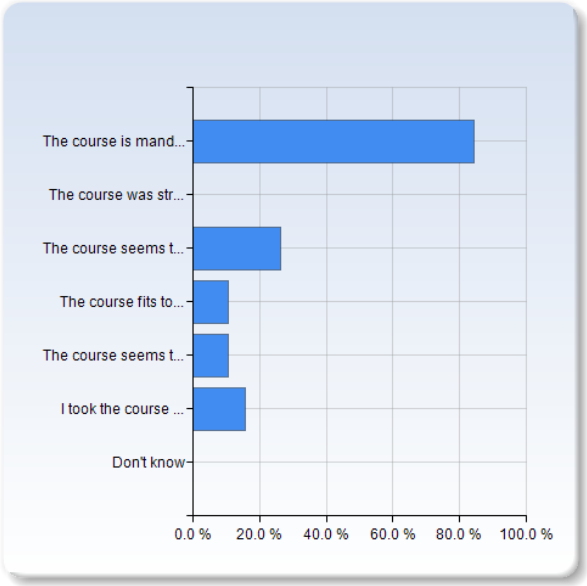
Did you have ever have written a computer program before the course start? (Please give the most relevant answer)	Number of Responses
No.	9 (47.4%)
Yes, in Java.	1 (5.3%)
Yes, in C.	0 (0.0%)
Yes, in C++	0 (0.0%)
Yes, in Matlab.	1 (5.3%)
Yes, in a visual programming language, like Snap! .	0 (0.0%)
Yes, in Python.	5 (26.3%)
Yes, in a language not listet.	3 (15.8%)
Total	19 (100.0%)



	Mean	Standard Deviation
Did you have ever have written a computer program before the course start? (Please give the most relevant answer)	3.9	3.2

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

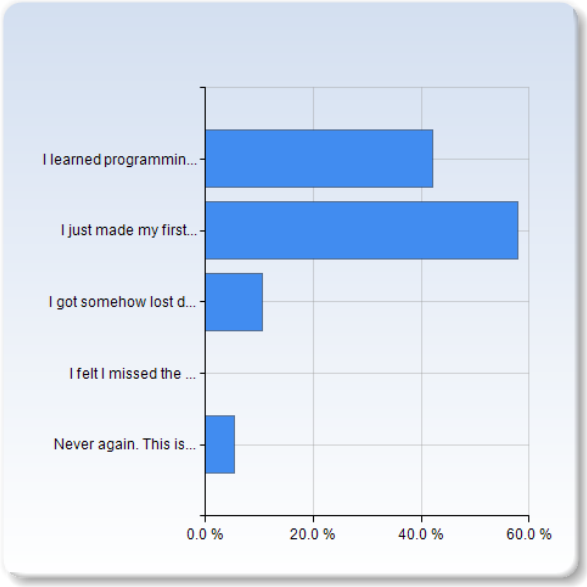
Why did you sign up for the course? (several answers possible)	Number of Responses
The course is mandatory in my program.	16 (84.2%)
The course was strongly recommended in my program.	0 (0.0%)
The course seems to be relevant for my education.	5 (26.3%)
The course fits to my interests.	2 (10.5%)
The course seems to improve my chances on the work market.	2 (10.5%)
I took the course just for fun.	3 (15.8%)
Don't know	0 (0.0%)
Total	28 (147.4%)



	Mean	Standard Deviation
Why did you sign up for the course? (several answers possible)	2.4	1.8

Now after all lectures are finished, my impression is.....

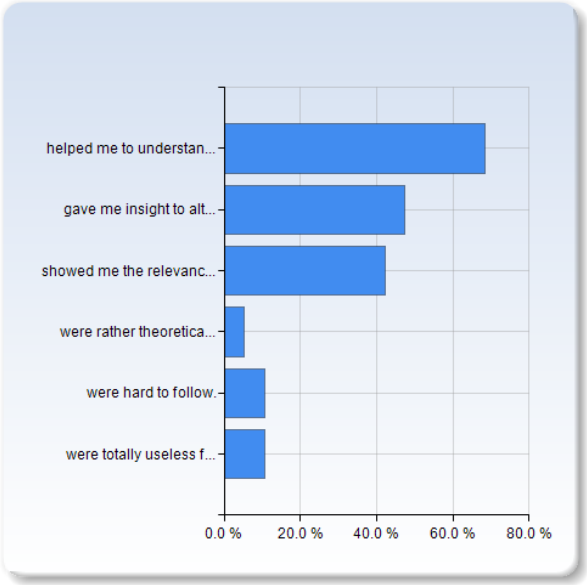
Now after all lectures are finished, my impression is.....	Number of Responses
I learned programming and I feel that can manage alone to write programs in mathematics and physics.	8 (42.1%)
I just made my first steps and got motivated to dive deeper into the subject.	11 (57.9%)
I got somehow lost during the course, but I think I will catch up.	2 (10.5%)
I felt I missed the point with this course and will retake it.	0 (0.0%)
Never again. This is not my subject.	1 (5.3%)
Total	22 (115.8%)



	Mean	Standard Deviation
Now after all lectures are finished, my impression is.....	1.9	0.9

The lectures ....

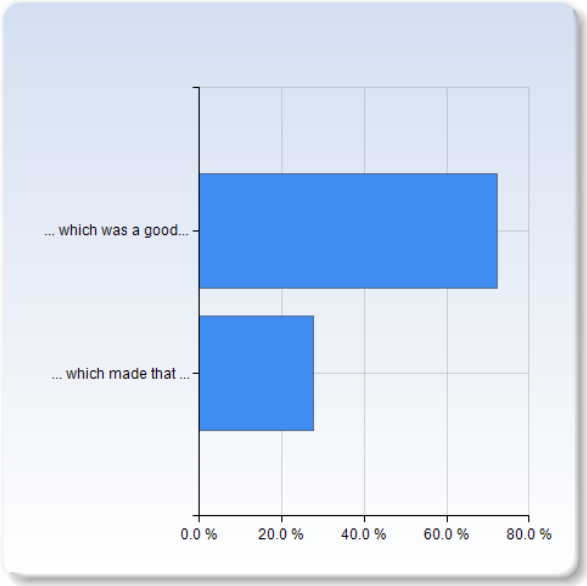
The lectures	Number of Responses
helped me to understand concepts and details.	13 (68.4%)
gave me insight to alternative solution approaches.	9 (47.4%)
showed me the relevance of programming in mathematics/physics.	8 (42.1%)
were rather theoretical.	1 (5.3%)
were hard to follow.	2 (10.5%)
were totally useless for me.	2 (10.5%)
Total	35 (184.2%)



	Mean	Standard Deviation
The lectures	2.3	1.5

The material was ordered in a way ...

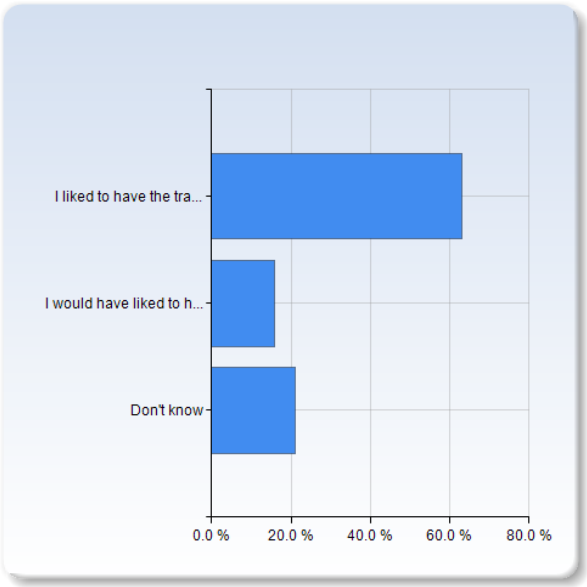
The material was ordered in a way ...	Number of Responses
... which was a good mix of new concepts and deepening of concepts from previous lectures.	13 (72.2%)
... which made that I often felt lost.	5 (27.8%)
Total	18 (100.0%)



	Mean	Standard Deviation
The material was ordered in a way ...	1.3	0.5

Trainings Exercises

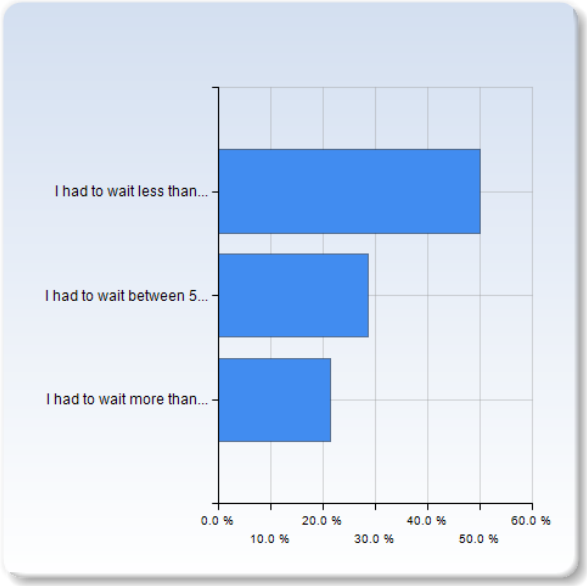
Trainings Exercises	Number of Responses
I liked to have the trainings exercises directly after the lectures and that they made me work with "the topic of the day".	12 (63.2%)
I would have liked to have a distance of at least one day between new material and the training.	3 (15.8%)
Don't know	4 (21.1%)
Total	19 (100.0%)



	Mean	Standard Deviation
Trainings Exercises	1.2	0.4

Support

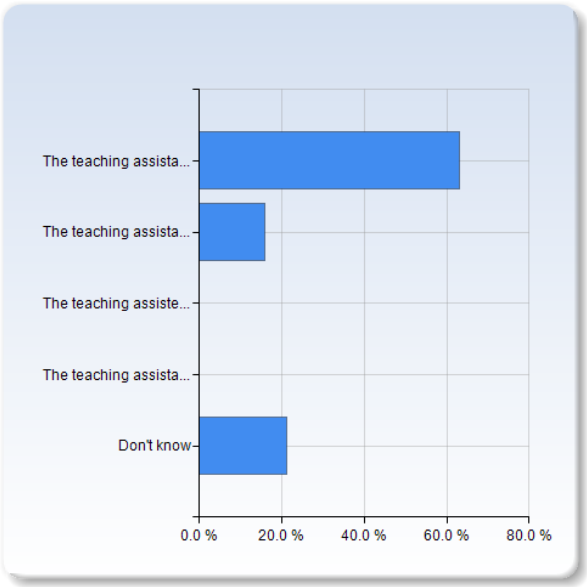
Support	Number of Responses
I had to wait less than 5 minutes for support during the training exercises	7 (50.0%)
I had to wait between 5 and 15 minutes	4 (28.6%)
I had to wait more than 15 minutes until a teaching assistant came to help me.	3 (21.4%)
Total	14 (100.0%)



	Mean	Standard Deviation
Support	1.7	0.8

Competence

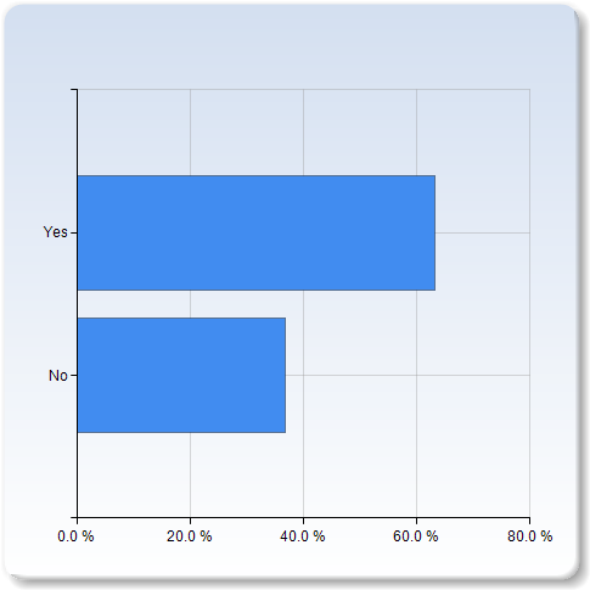
Competence	Number of Responses
The teaching assistants were competent.	12 (63.2%)
The teaching assistant sometimes could not answer but found another one to help.	3 (15.8%)
The teaching assistents tried there best but gave me often wrong answers.	0 (0.0%)
The teaching assistants did not care.	0 (0.0%)
Don't know	4 (21.1%)
Total	19 (100.0%)



	Mean	Standard Deviation
Competence	1.2	0.4

Taining exercises. I worked in a group.

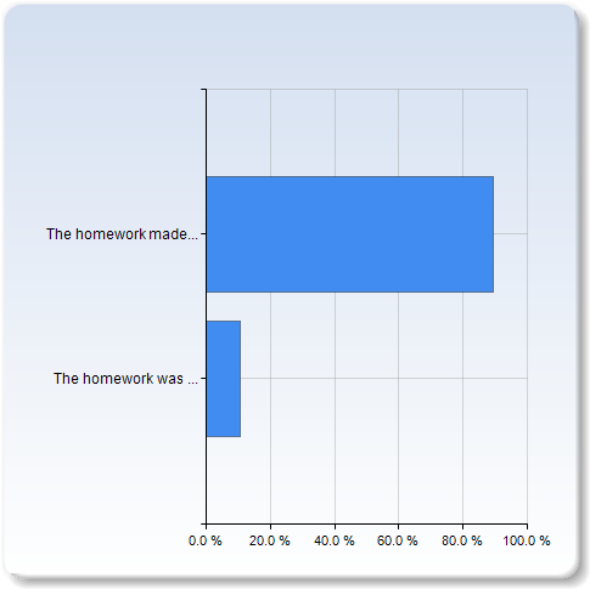
Taining exercises. I worked in a group.	Number of Responses
Yes	12 (63.2%)
No	7 (36.8%)
Total	19 (100.0%)



	Mean	Standard Deviation
Taining exercises. I worked in a group.	1.4	0.5

Homework

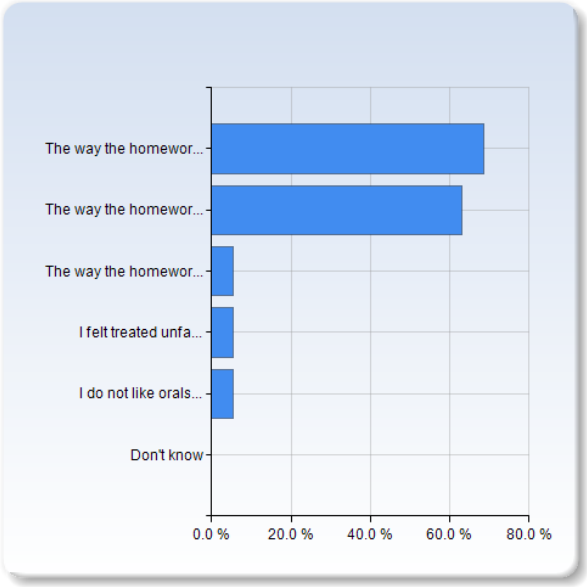
Homework	Number of Responses
The homework made me improve my knowledge.	17 (89.5%)
The homework was just for getting a grade.	2 (10.5%)
Total	19 (100.0%)



	Mean	Standard Deviation
Homework	1.1	0.3

The homework presentations.

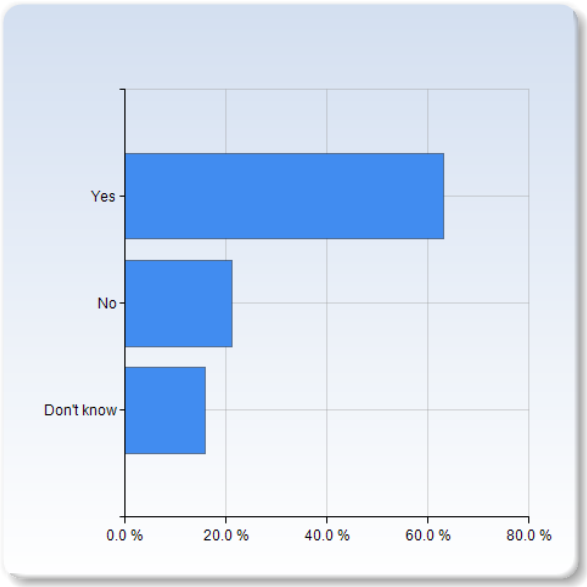
The homework presentations.	Number of Responses
The way the homeworks were presented gave me a chance to get extra feedback.	13 (68.4%)
The way the homeworks were presented gave me a chance to show and test my knowledge.	12 (63.2%)
The way the homework was presented did not match to my effort I put into this work.	1 (5.3%)
I felt treated unfair.	1 (5.3%)
I do not like orals with teaching assistants.	1 (5.3%)
Don't know	0 (0.0%)
Total	28 (147.4%)



	Mean	Standard Deviation
The homework presentations.	1.8	1.0

I found it helpfull to work in groups for the homework

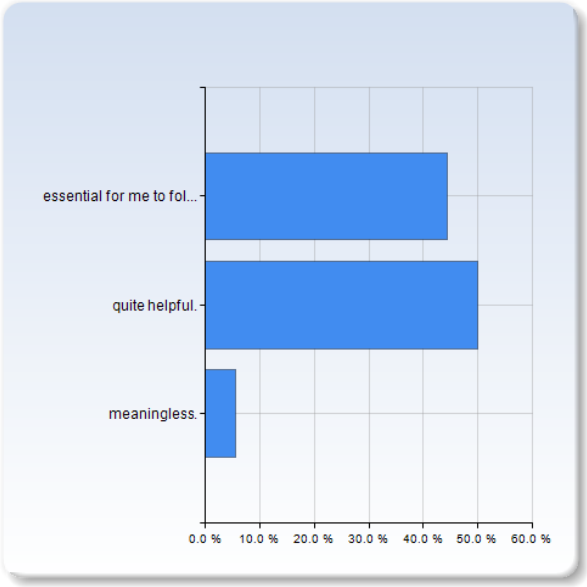
I found it helpfull to work in groups for the homework	Number of Responses
Yes	12 (63.2%)
No	4 (21.1%)
Don't know	3 (15.8%)
Total	19 (100.0%)



	Mean	Standard Deviation
I found it helpfull to work in groups for the homework	1.3	0.4

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

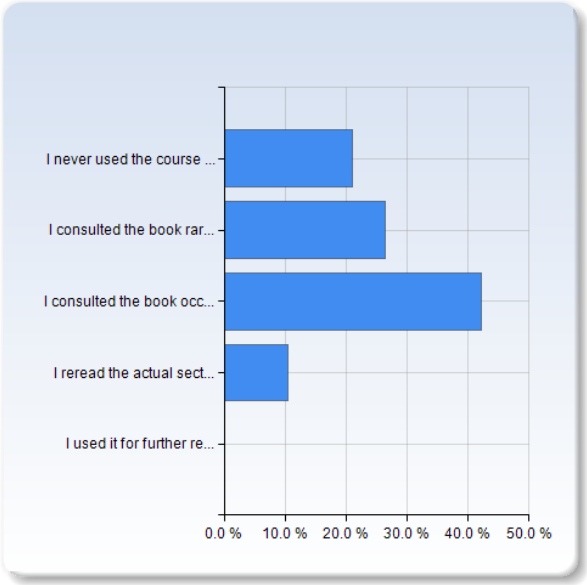
Course material. The slides and Jupyter Notebook files were ...	Number of Responses
essential for me to follow the course.	8 (44.4%)
quite helpful.	9 (50.0%)
meaningless.	1 (5.6%)
Total	18 (100.0%)



	Mean	Standard Deviation
Course material. The slides and Jupyter Notebook files were ...	1.6	0.6

The course book.

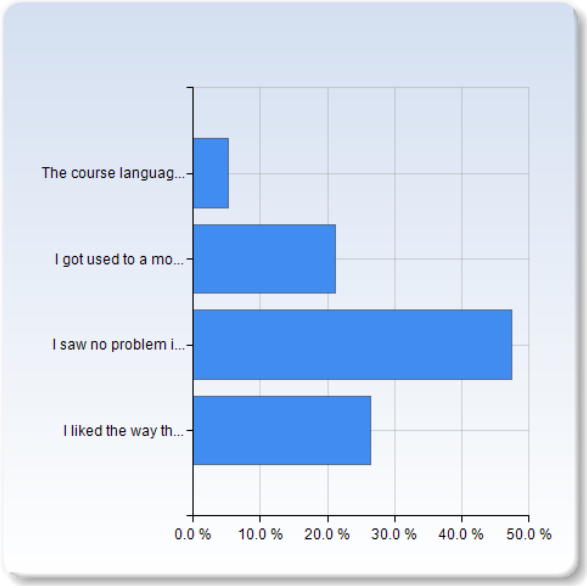
The course book.	Number of Responses
I never used the course book.	4 (21.1%)
I consulted the book rarely.	5 (26.3%)
I consulted the book occasionally.	8 (42.1%)
I reread the actual sections of the lecture in the course book.	2 (10.5%)
I used it for further reading and deepening.	0 (0.0%)
Total	19 (100.0%)



	Mean	Standard Deviation
The course book.	2.4	1.0

Course style. Language

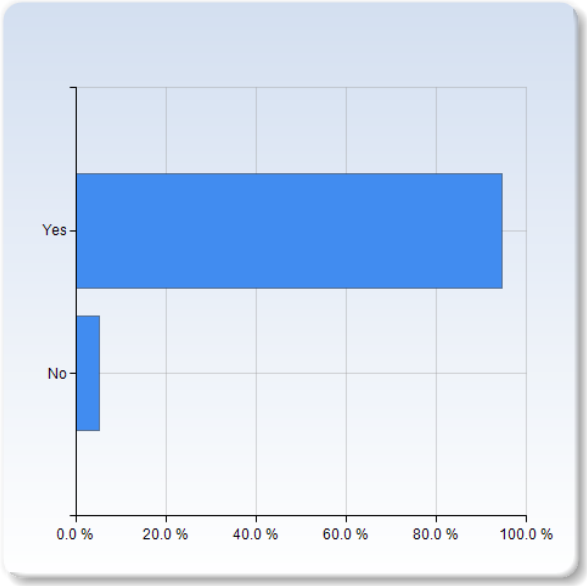
Course style. Language	Number of Responses
The course language was to "mathematical".	1 (5.3%)
I got used to a more mathematical language.	4 (21.1%)
I saw no problem in the way the material was communicated.	9 (47.4%)
I liked the way the material was communicated.	5 (26.3%)
Total	19 (100.0%)



	Mean	Standard Deviation
Course style. Language	2.9	0.8

Online Course: Did you attend the Zoom lectures mostly directly while there were given?

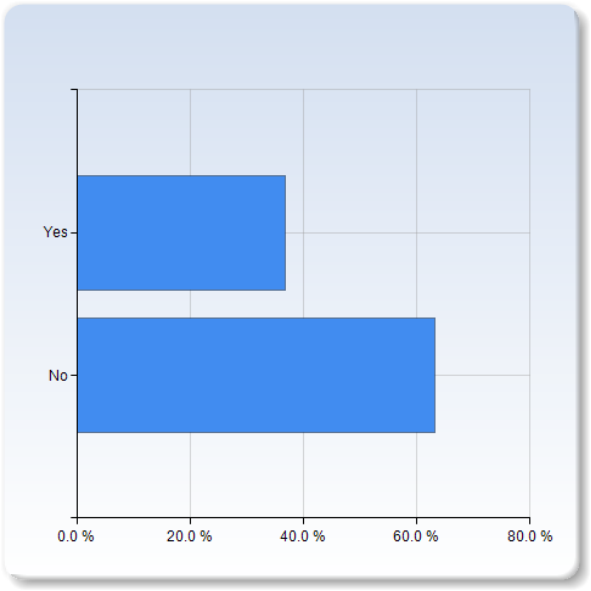
Online Course: Did you attend the Zoom lectures mostly directly while there were given?	Number of Responses
Yes	18 (94.7%)
No	1 (5.3%)
Total	19 (100.0%)



	Mean	Standard Deviation
Online Course: Did you attend the Zoom lectures mostly directly while there were given?	1.1	0.2

Online Course: Did you often looked at the recorded lectures?

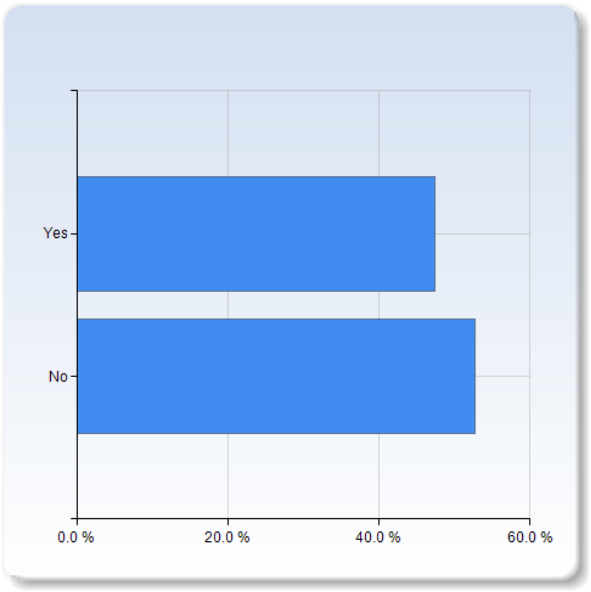
Online Course: Did you often looked at the recorded lectures?	Number of Responses
Yes	7 (36.8%)
No	12 (63.2%)
Total	19 (100.0%)



	Mean	Standard Deviation
Online Course: Did you often looked at the recorded lectures?	1.6	0.5

Online Course: Would you recommend that we give this course always as an online course - even without a pandemie situation?

Online Course: Would you recommend that we give this course always as an online course - even without a pandemie situation?	Number of Responses
Yes	9 (47.4%)
No	10 (52.6%)
Total	19 (100.0%)

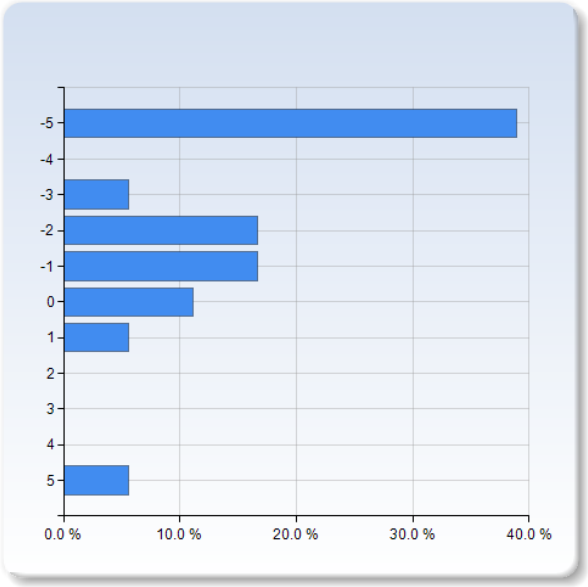


	Mean	Standard Deviation
Online Course: Would you recommend that we give this course always as an online course - even without a pandemie situation?	1.5	0.5

Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive)

Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive) - From

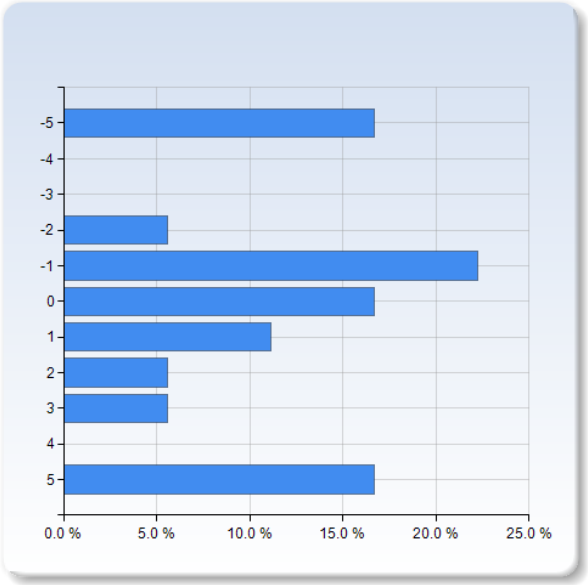
Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive) - From	Number of Responses
-5	7 (38.9%)
-4	0 (0.0%)
-3	1 (5.6%)
-2	3 (16.7%)
-1	3 (16.7%)
0	2 (11.1%)
1	1 (5.6%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (5.6%)
Total	18 (100.0%)



	Mean	Standard Deviation
Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive) - From	-2.3	2.8

Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive) - To

Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive) - To	Number of Responses
-5	3 (16.7%)
-4	0 (0.0%)
-3	0 (0.0%)
-2	1 (5.6%)
-1	4 (22.2%)
0	3 (16.7%)
1	2 (11.1%)
2	1 (5.6%)
3	1 (5.6%)
4	0 (0.0%)
5	3 (16.7%)
Total	18 (100.0%)



	Mean	Standard Deviation
Online Course: How much affected the distance teaching your learning outcome ? (0 = neutral, -5 = max negative, +5 = max positive) - To	0.1	3.2