



Report - SG2212 - 2018-01-28

Respondents: 1
Answer Count: 1
Answer Frequency: 100.00%

Please note that there is only one respondent to this form: the person that performs the course analysis.

Course analysis carried out by (name, e-mail):

Philipp Schlatter, pschlatt@mech.kth.se

COURSE DESIGN

Briefly describe the course design (learning activities, examinations) and any changes that have been implemented since the last course offering.

The course consists of lectures (approximately 3x2 hours per week), one exercise session (1h per week), homeworks, and a project (approx. 10 h) at the end. Learning questions are given to the students which cover the topics that are tested at the exam (theory), whereas the practical skills are trained via the homeworks and the project.

THE STUDENTS' WORKLOAD

Does the students' workload correspond to the expected level (40 hours/1.5 credits)? If there is a significant deviation from the expected, what can be the reason?

The students say that they use quite a significant amount of time for the course, up to 30 h per week. As the students also comment, this is quite much, but still the students appreciate the breadth of material we go through. Therefore, amazingly, the high workload is mentioned, but not really as a negative aspect.

THE STUDENTS' RESULTS

How well have the students succeeded on the course? If there are significant differences compared to previous course offerings, what can be the reason?

The results are consistent with the previous years, and are in general very good. It is clear that putting effort into the course leads to a good grade, which means that the examination is well adapted to the contents.

OVERALL IMPRESSION

Summarize the teachers' overall impressions of the course offering in relation to students' results and their evaluation of the course, as well as in relation to the changes implemented since last course offering.

The answers are quite consistent. They were in general positive to the lectures, the lecturers, the structure and the content. The exercises were also considered important and good, whereas some comments on the preparation during the exercise sessions were raised. This will be improved for the next year's edition.



ANALYSIS

Is it possible to identify stronger and weaker areas in the learning environment based on the information you have gathered during the evaluation and analysis process? What can the reason for these be? Are there significant difference in experience between:

- students identifying as female and male?
- international and national students?
- students with or without disabilities?

nothing specific.

ANSWERS TO OPEN QUESTIONS

What emerges in the students' answers to the open questions? Is there any good advice to future course participants that you want to pass on?

That the course is demanding, but worthwhile spending the time. As mentioned above, most students work a lot, but they seem to see the benefits.

PRIORITIZED COURSE DEVELOPMENT

What aspects of the course should be developed primarily? How can these aspects be developed in short and long term?

We will focus on better prepared exercise sessions. On the medium term we would like to build up a better course compendium, and potentially use interactive demonstrations during the class. However, this might not be feasible with all topics, and we already do that for the project part.

OTHER INFORMATION

Is there anything else you would like to add?

approximately 50% of the students answered, which is more than for other courses. Also, the feedback is quite consistent, therefore we could get a quite good picture.

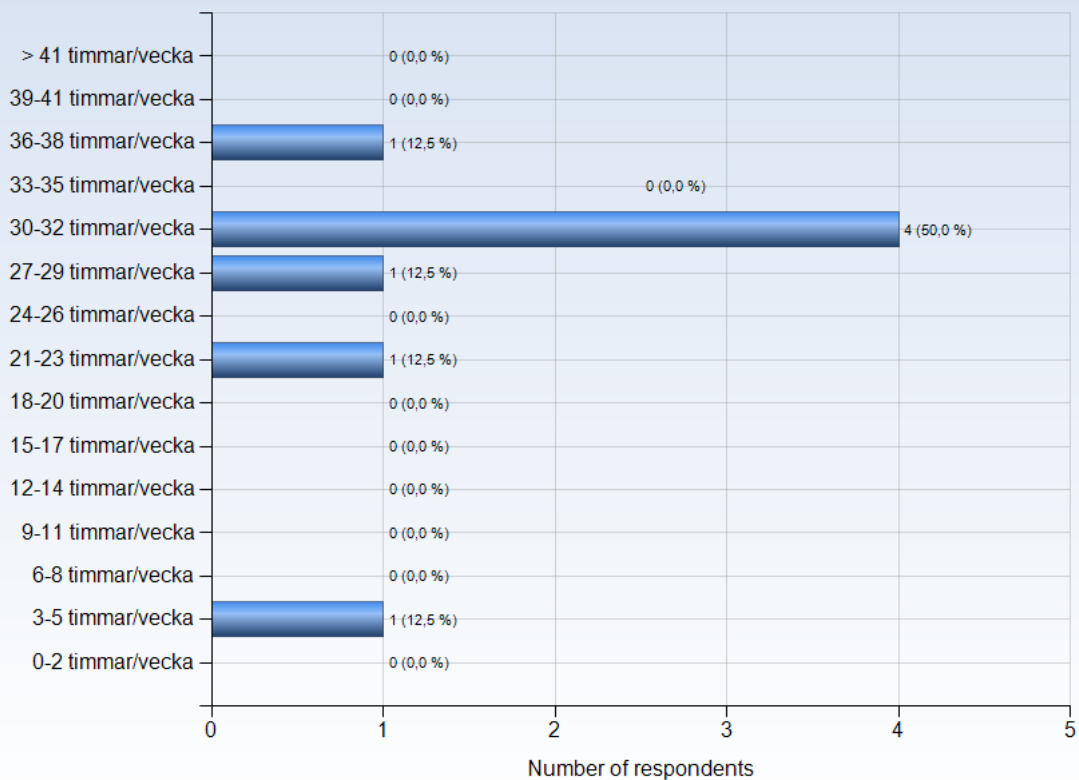


SG2212 - 2017-02-23

Antal respondenter: 54
Antal svar: 9
Svarsfrekvens: 16,67 %

ESTIMATED WORKLOAD

On average, how many hours/week did you work with the course (including scheduled hours)?



Comments

Comments (I worked: 30-32 timmar/vecka)

Lots of work for 7.5 credits...

Homeworks require a lot of time. I think it would better if they are graded to award students with some bonus points if they worked constantly throughout the period.

Comments (I worked: 36-38 timmar/vecka)

The homeworks were very tough if the student is not relative with MATLAB. The MATLAB help hour for the homework wasnot helpful at all.



LEARNING EXPERIENCE

The polar diagrams below show the average response to the LEQ statements for different groups of respondents (only valid responses are included). The scale that is used in the diagrams is defined by:

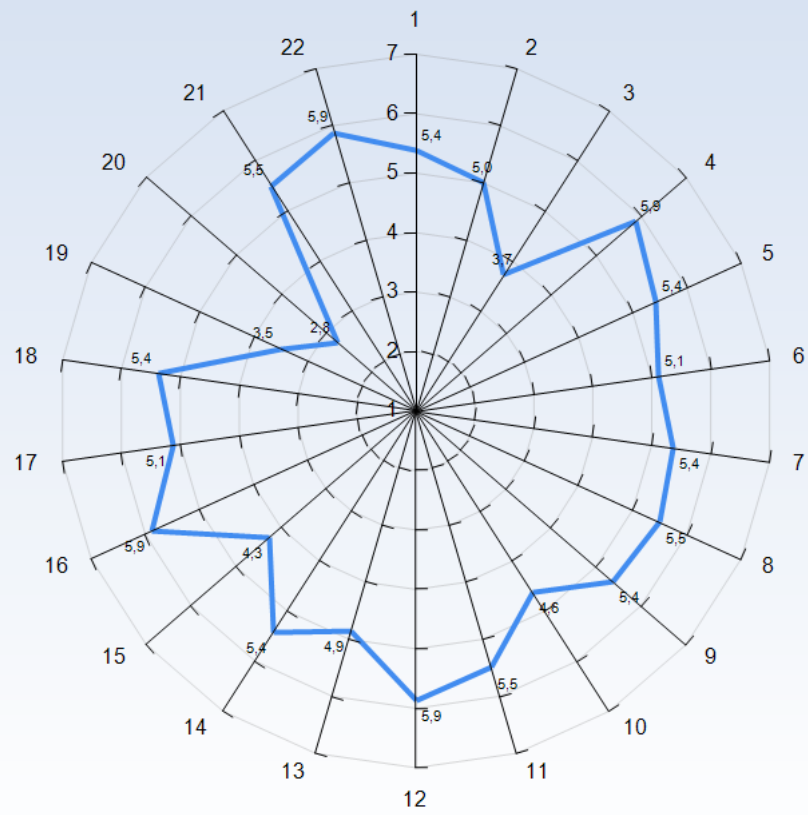
1 = No, I strongly disagree with the statement

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7 = Yes, I strongly agree with the statement

Note! A group has to include at least 3 respondents in order to appear in a diagram.

Average response to LEQ statements - all respondents





KTH Learning Experience Questionnaire v3.1.3

Meaningfulness - emotional level

Stimulating tasks

1. I worked with interesting issues (a)

Exploration and own experience

2. I explored parts of the subject on my own (a)
3. I was able to learn by trying out my own ideas (b)

Challenge

4. The course was challenging in a stimulating way (c)

Belonging

5. I felt togetherness with others on the course (d)
6. The atmosphere on the course was open and inclusive (d)

Comprehensibility - cognitive level

Clear goals and organization

7. The intended learning outcomes helped me to understand what I was expected to achieve (e)
8. I understood how the course was organized and what I was expected to do (e)

Understanding of subject matter

9. I understood what the teachers were talking about (f)
10. I was able to learn from concrete examples that I could relate to (g)
11. Understanding of key concepts had high priority (h)



Constructive alignment

12. The course activities helped me to achieve the intended learning outcomes efficiently (i)

13. I understood what I was expected to learn in order to obtain a certain grade (i)

Feedback and security

14. I received regular feedback that helped me to see my progress (j)

15. I could practice and receive feedback without being graded (j)

16. The assessment on the course was fair and honest (k)

Manageability - instrumental level

Sufficient background knowledge

17. My background knowledge was sufficient to follow the course (f)

Time to reflect

18. I regularly spent time to reflect on what I learned (l)

Variation and choices

19. I was able to learn in a way that suited me (m)

20. I had opportunities to choose what to do (m)

Collaboration

21. I was able to learn by collaborating and discussing with others (n)

Support

22. I was able to get support if I needed it (c)



Learning factors from the literature that LEQ intends to examine

We tend to learn most effectively (in ways that make a sustained, substantial, and positive influence on the way we think, reflect, act or feel) when:

- a) We are trying to answer questions, solve problems or acquire skills that we find interesting, intriguing or important
- b) We can speculate, try out ideas (intellectually or practically) and learn from experience, even before we know much about the subject
- c) We are able to do so in a challenging yet supportive environment
- d) We feel that we are part of a community and believe that other people have faith in our ability to learn
- e) We understand the meaning of the intended learning outcomes, how the environment is organized and what is expected of us
- f) We have sufficient background knowledge to manage the present learning situation
- g) We can learn inductively by moving from specific examples and experiences to general principles, rather than the other way around
- h) We are challenged to develop a proper understanding of key concepts and successively create a coherent whole of the content
- i) We believe that the work we are expected to do will help us to reach the intended learning outcomes
- j) We can try, fail, and receive feedback in advance of and separate from any summative judgment of our efforts
- k) We believe that our work will be considered fairly and honestly
- l) We have sufficient time to learn and devote the time necessary to do so



m) We believe that we are in control of our own learning, not manipulated

n) We can work collaboratively with other learners struggling with the same problems

Literature

Bain, K. (2004). *What the Best College Teachers Do*, Chapter 5, pp. 98-134. Cambridge: Harvard University Press.

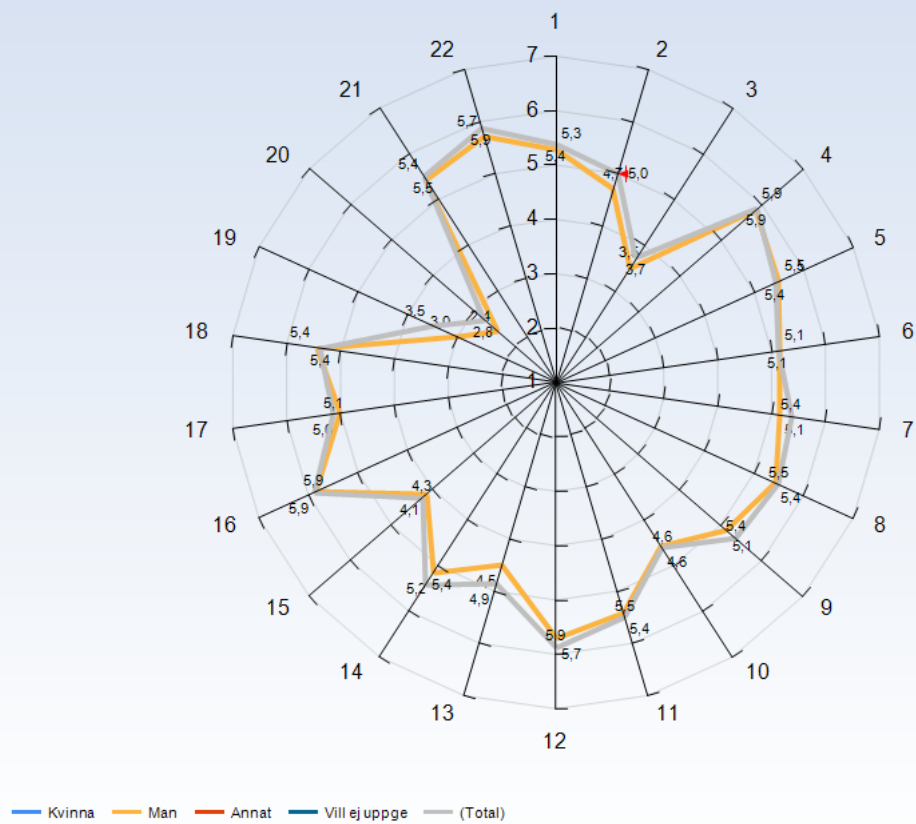
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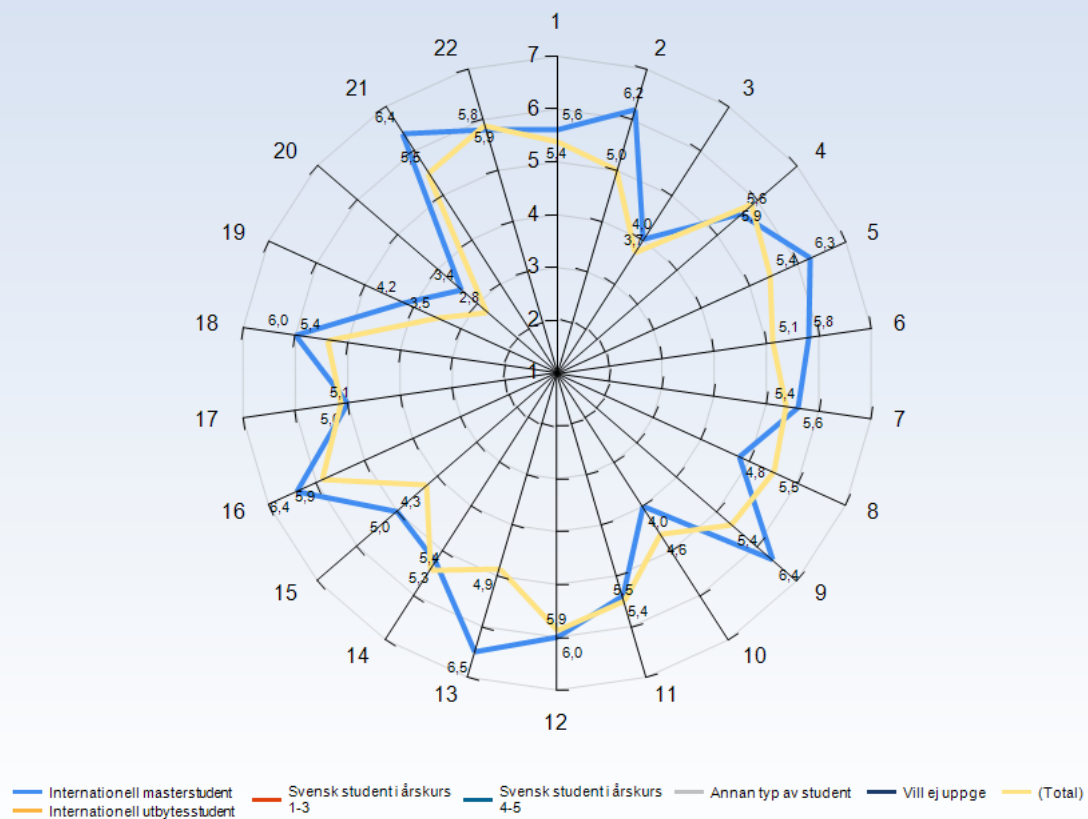
Ramsden, P. (2003). *Learning to Teach in Higher Education*, Chapter 6, pp. 84-105. New York: RoutledgeFalmer.

Average response to LEQ statements - per gender



Comments

Average response to LEQ statements - per type of student



Comments

Comments (I am: Svensk student i årskurs 1-3)

Kursen ingår inte i mitt program, utan har lagts till frivilligt av mig.



GENERAL QUESTIONS

What was the best aspect of the course?

What was the best aspect of the course? (I worked: 3-5 timmar/vecka)

The course is great, the demand for continuous work is the best aspect even though I'm not suited for it

What was the best aspect of the course? (I worked: 27-29 timmar/vecka)

Att ha fått en djup insikt i vad faktiskt CFD är.

What was the best aspect of the course? (I worked: 30-32 timmar/vecka)

It is thorough on numerical methods on fluid mechanics.

Good teachers

The part until incompressible navier stokes. I think the last parts were done too quickly (i.e. projection method was done really to quickly I spent hours on my own to try to understand it for the project)

What was the best aspect of the course? (I worked: 36-38 timmar/vecka)

Teamwork for the assignments.

What would you suggest to improve?

What would you suggest to improve? (I worked: 3-5 timmar/vecka)

Change the dynamics of theoretical classes, it can be really boring some times

What would you suggest to improve? (I worked: 27-29 timmar/vecka)

Lägga upp extensor för en bättre bild av vad som verkligen förväntas av en på tentan.

What would you suggest to improve? (I worked: 30-32 timmar/vecka)

I think the workload is more than 7.5 credits all in all. I mean I like the concept with homeworks, exam and a project. But I really feel that the homeworks are in general too much to do. And we have to do one homework every week. Some of the material I do not understand why we should learn. Okay, its good to know something about machine epsilon but why do we have to know how to store a number on a computer? We are not computer scientists.. comon... Please remove unrellevant stuff from the homeworks...

Also it is a bit too many study questions. The material is very thorough but I think some questions are very similar so maybe they can be removed in order to decrease some of the workload...

Too much was covered in a short span of time which lead to incomplete knowledge

To grade the homeworks (or also something like: 6 hw passed = 2 bonus points; 5 hw passed = 1 bonus point).

What would you suggest to improve? (I worked: 36-38 timmar/vecka)

Specific MATLAB information. Relate its lecture with a section of a book so the student could get more details.

What advice would you like to give to future participants?

What advice would you like to give to future participants? (I worked: 3-5 timmar/vecka)

Work hard, ask questions, be interested. If you don't put motivation the course can be painful

What advice would you like to give to future participants? (I worked: 27-29 timmar/vecka)

Samarbeta ordentligt.

What advice would you like to give to future participants? (I worked: 30-32 timmar/vecka)

Do some of the study question during the course if you have time.

Learn MATLAB before hand

Homeworks and project need a lot of a time, start early (specially 5-6).

Is there anything else you would like to add?

Is there anything else you would like to add? (I worked: 30-32 timmar/vecka)

The course is in general good, but as I have written there is definitely room for improvement. Please try to make it better for next years students, thank you!

No



SPECIFIC QUESTIONS

RESPONSE DATA

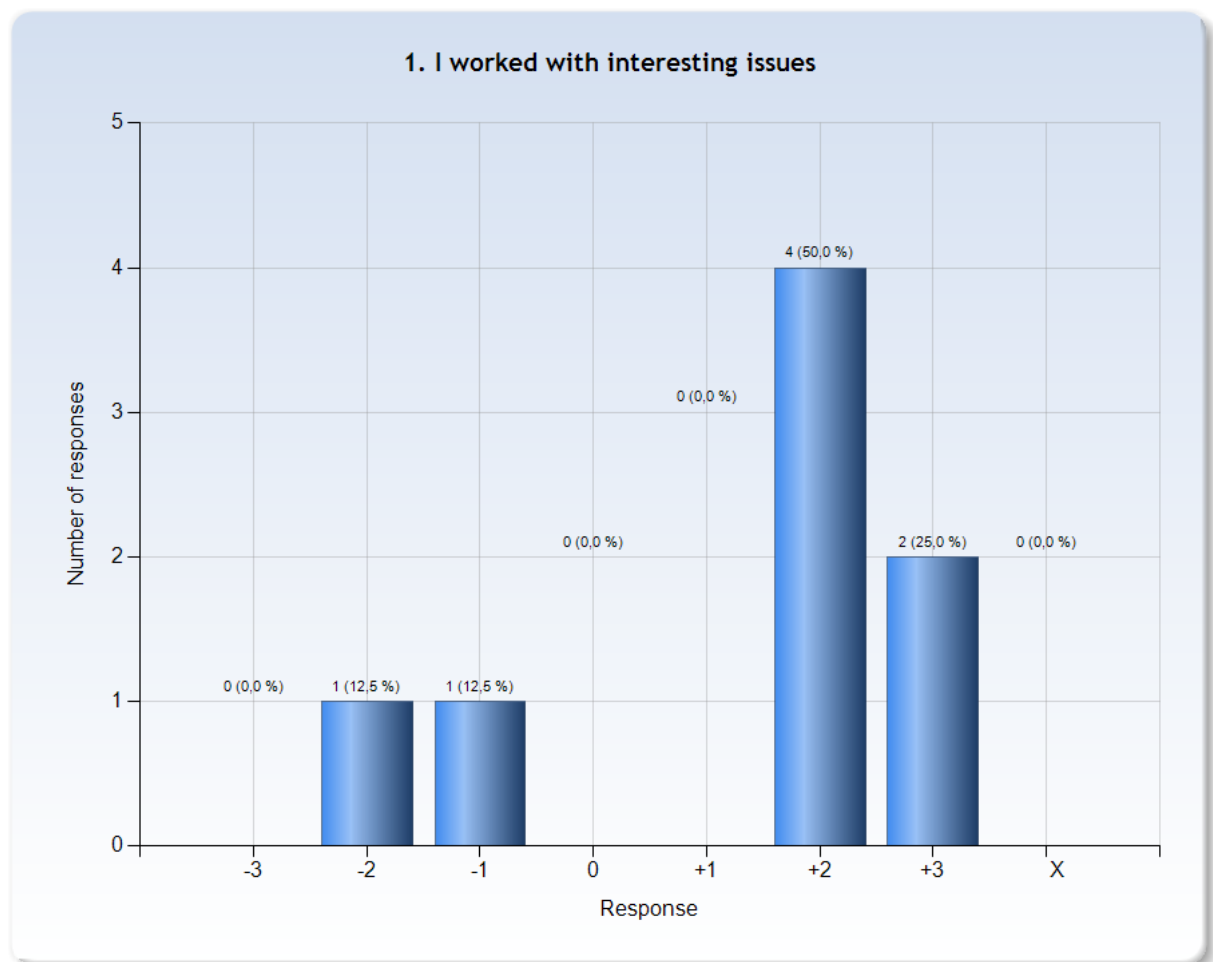
The diagrams below show the detailed response to the LEQ statements. The response scale is defined by:

-3 = No, I strongly disagree with the statement

0 = I am neutral to the statement

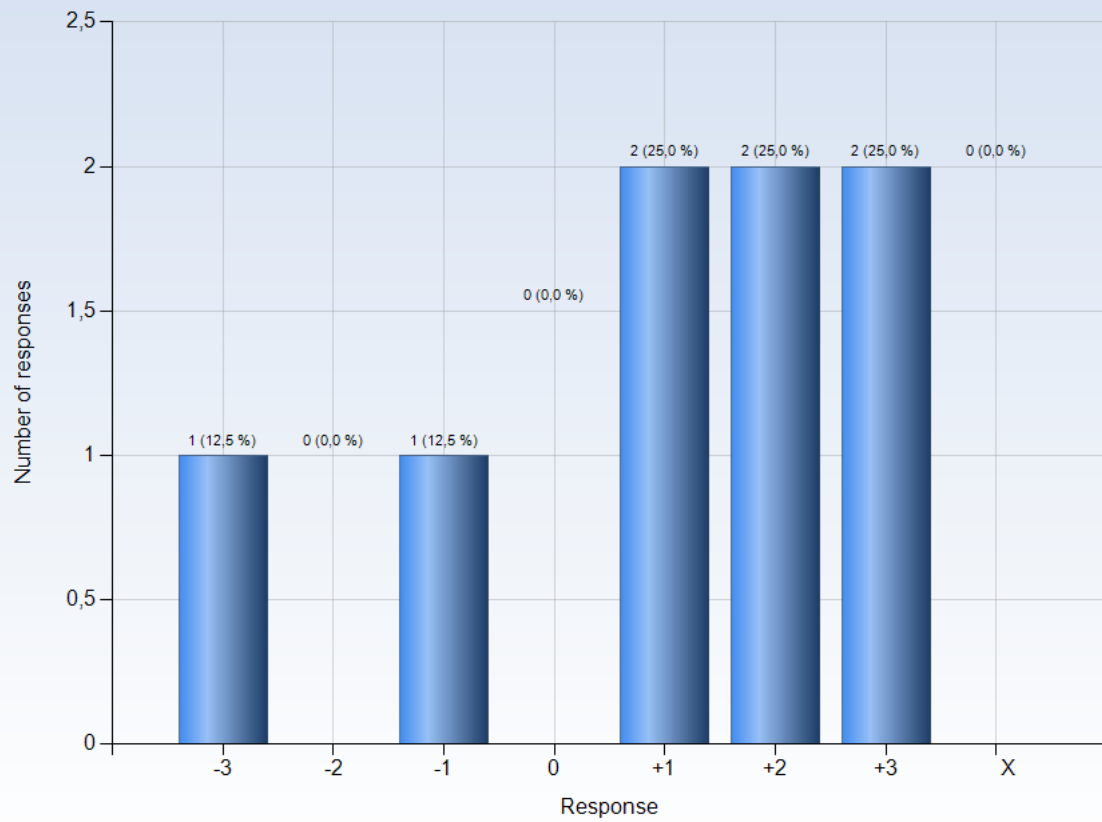
+3 = Yes, I strongly agree with the statement

X = I decline to take a position on the statement



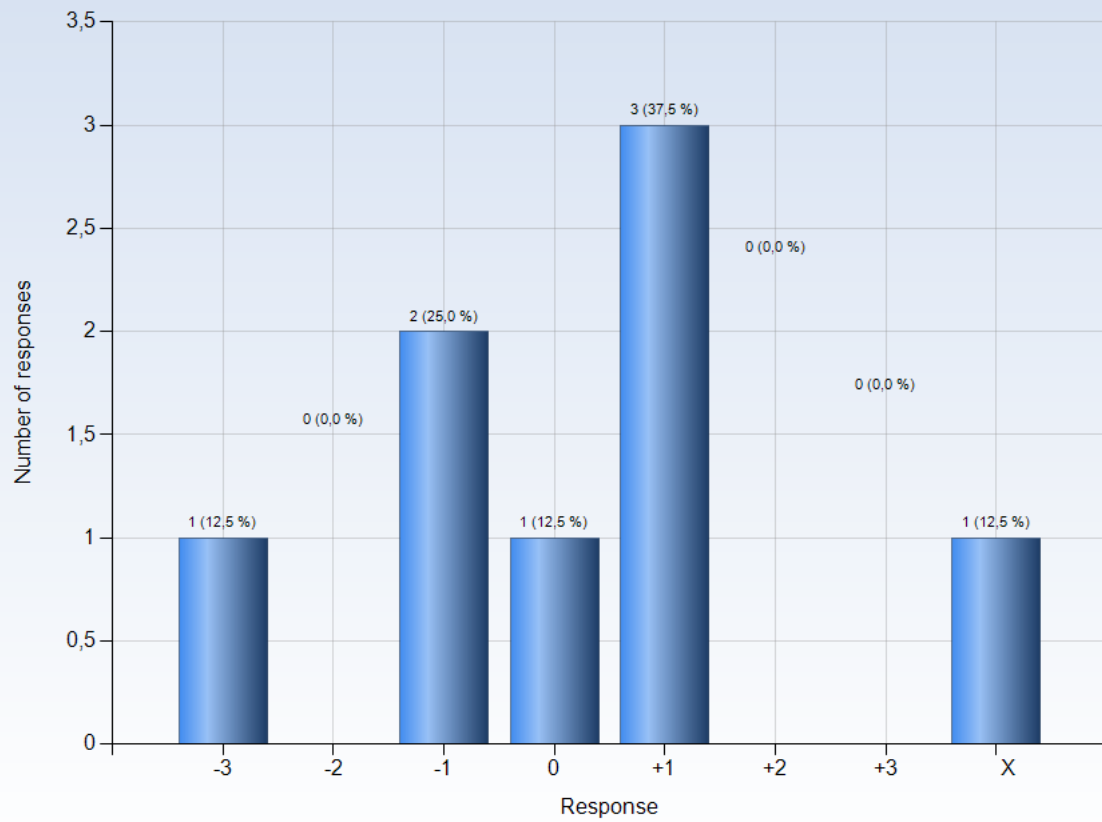
Comments

2. I explored parts of the subject on my own



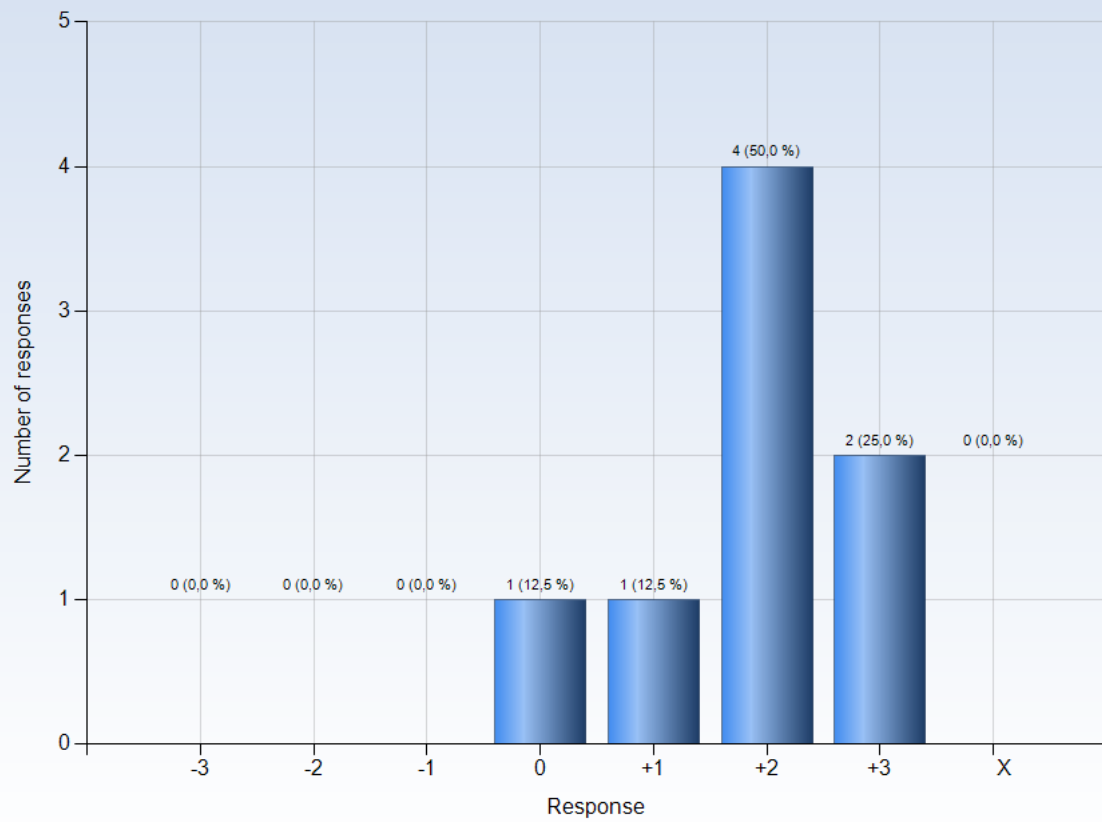
Comments

3. I was able to learn by trying out my own ideas



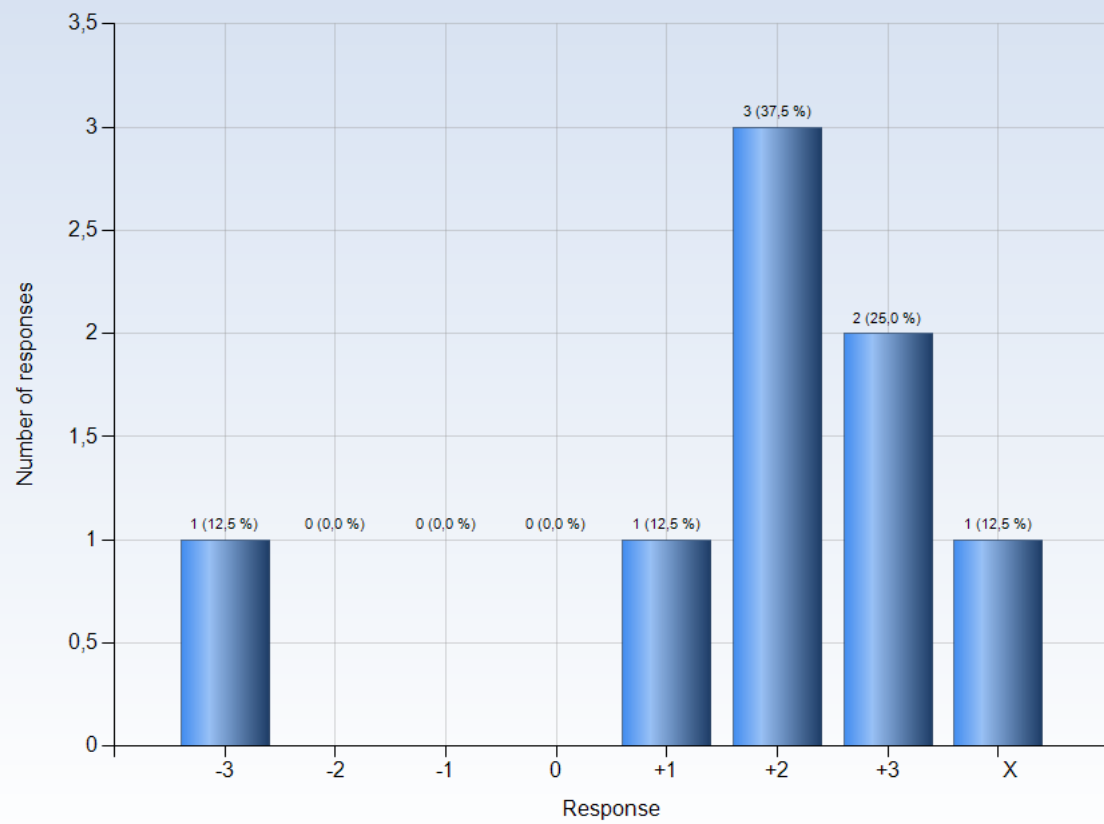
Comments

4. The course was challenging in a stimulating way



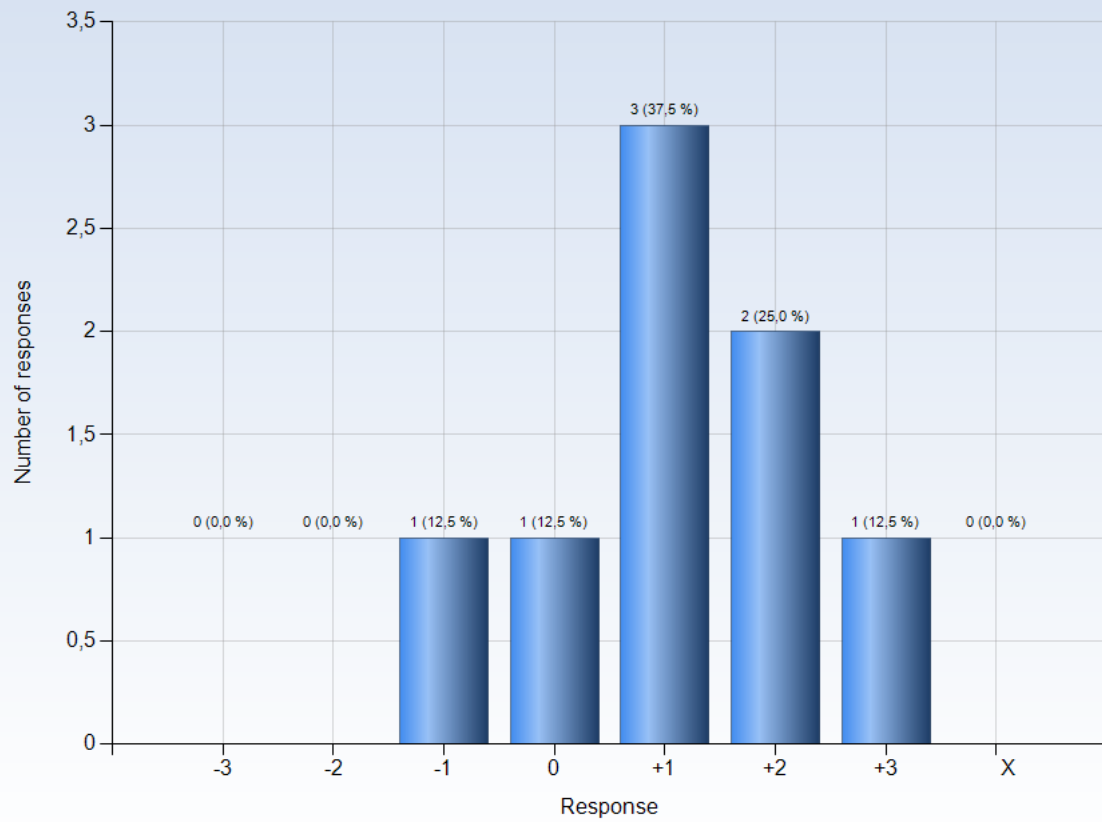
Comments

5. I felt togetherness with others on the course



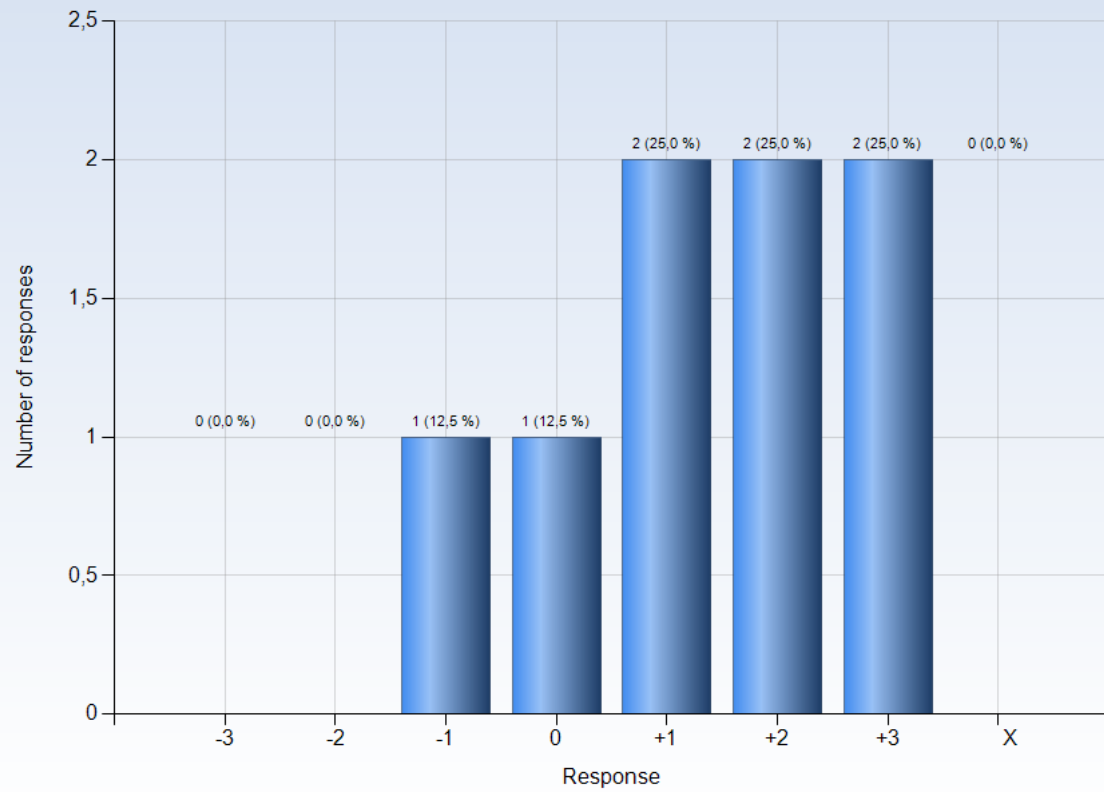
Comments

6. The atmosphere on the course was open and inclusive



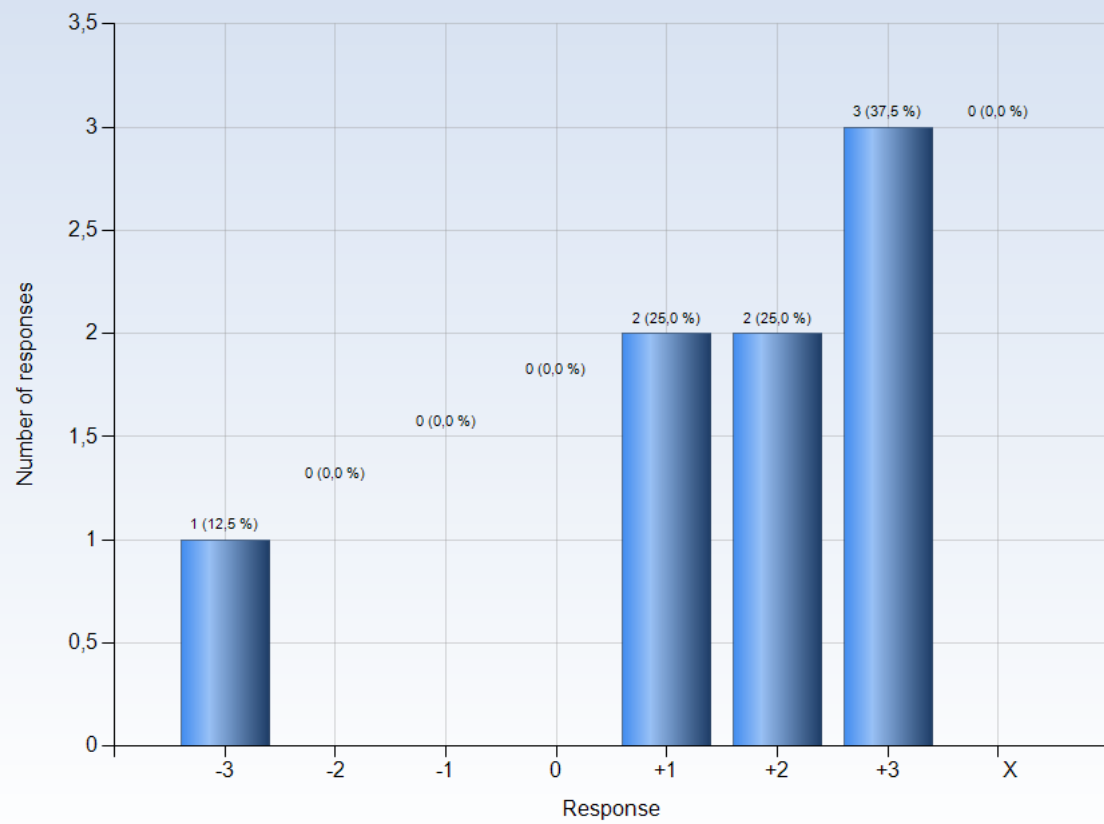
Comments

7. The intended learning outcomes helped me to understand what I was expected to achieve



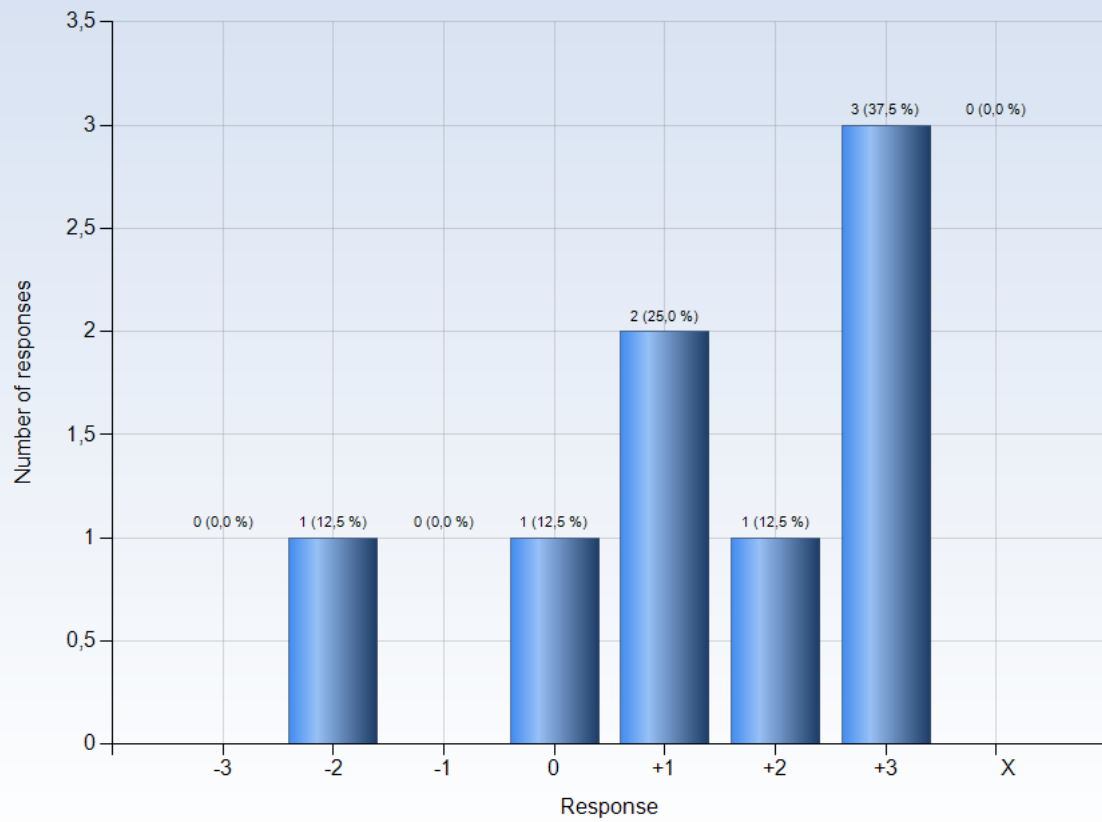
Comments

8. I understood how the course was organized and what I was expected to do



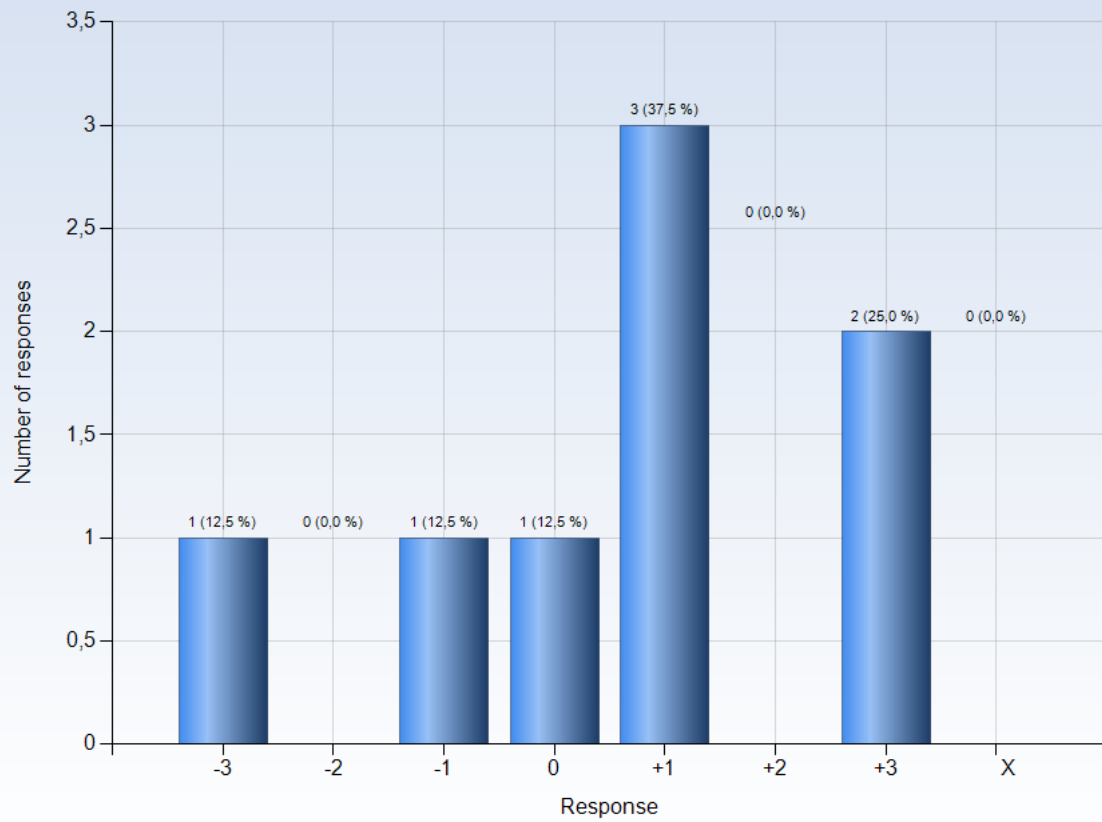
Comments

9. I understood what the teachers were talking about



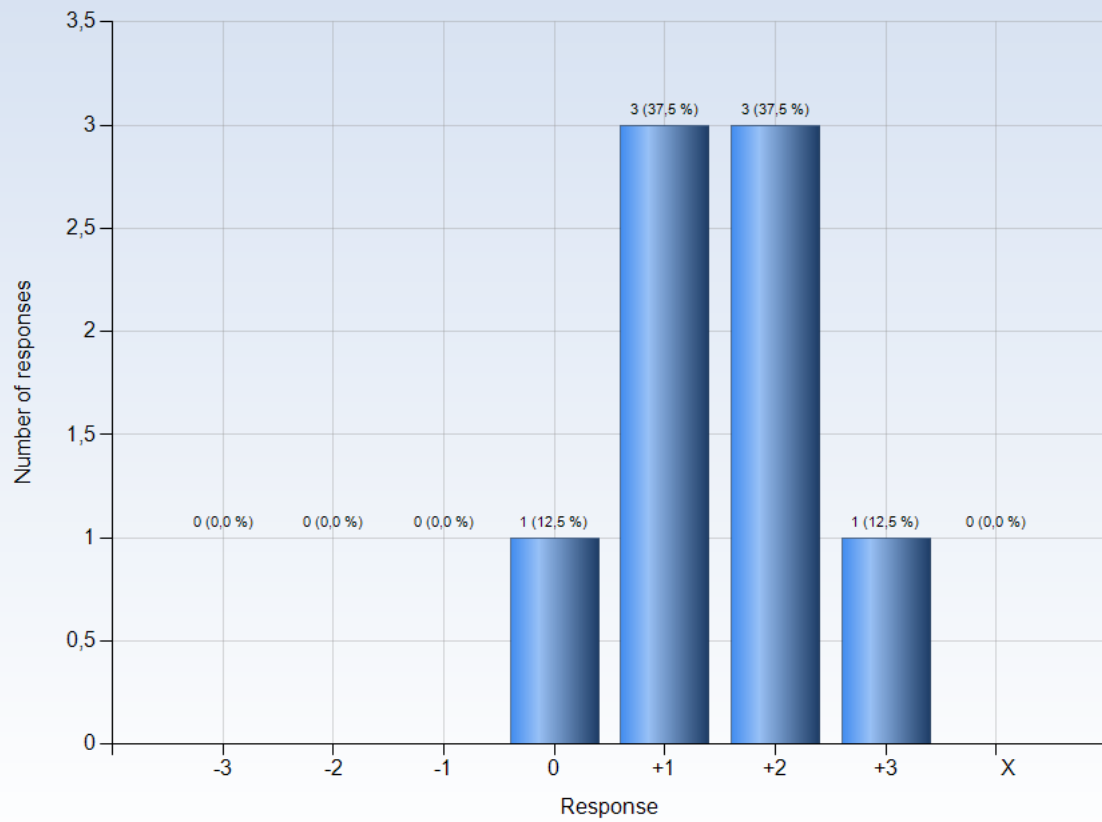
Comments

10. I was able to learn from concrete examples that I could relate to



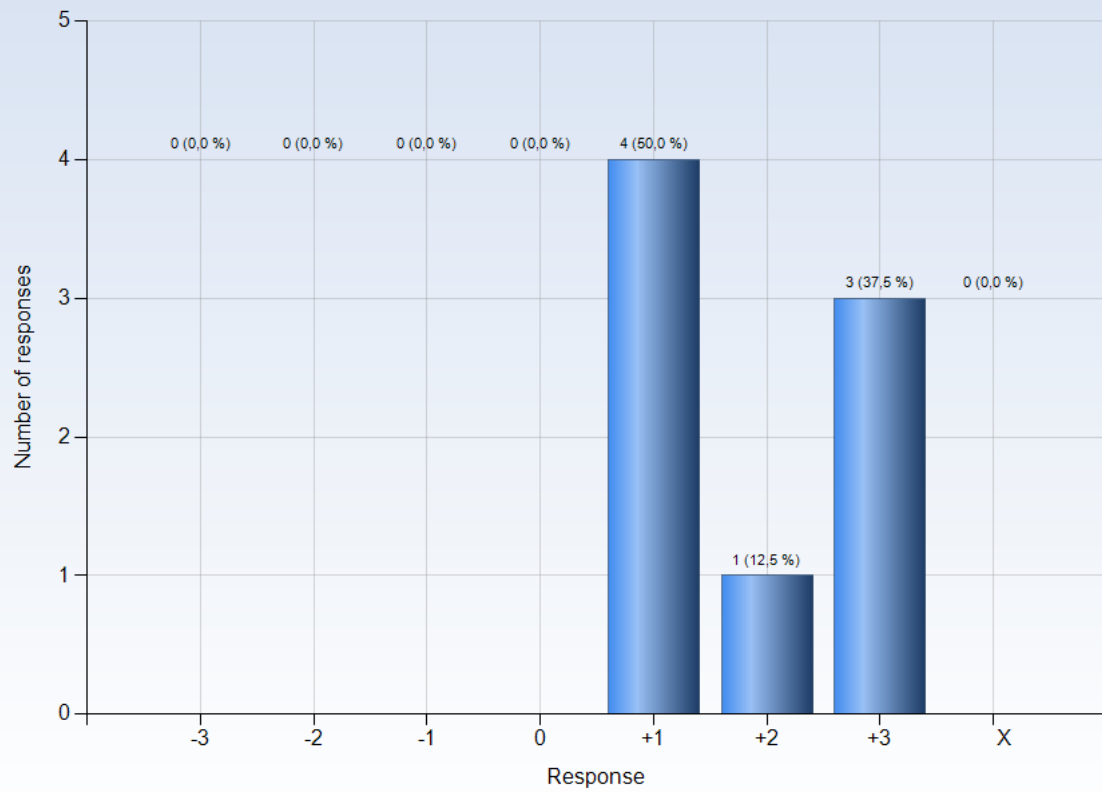
Comments

11. Understanding of key concepts had high priority



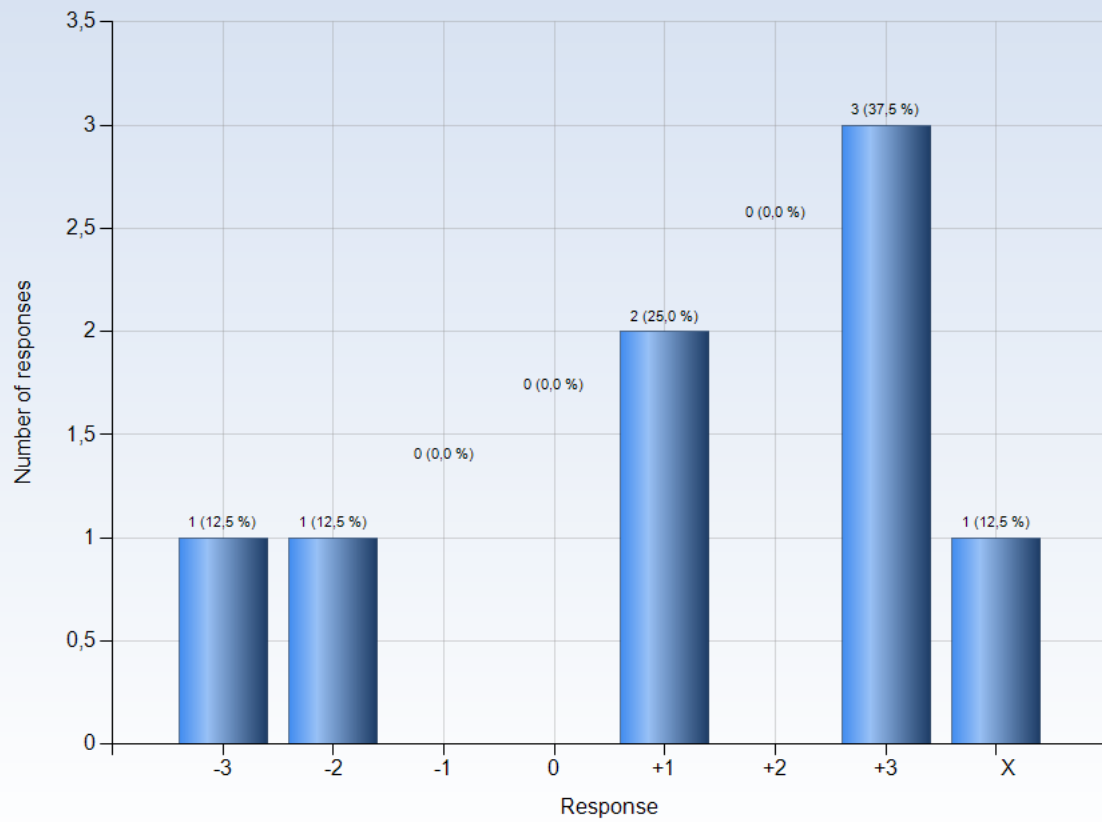
Comments

12. The course activities helped me to achieve the intended learning outcomes efficiently



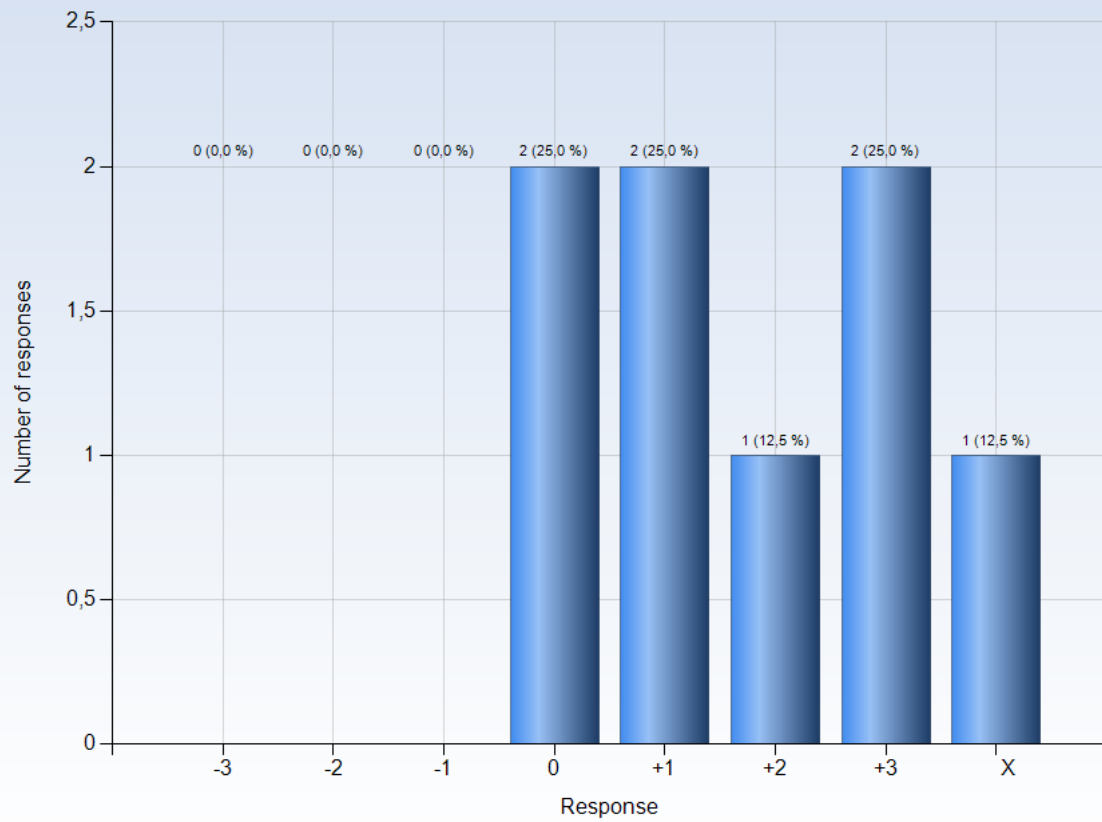
Comments

13. I understood what I was expected to learn in order to obtain a certain grade



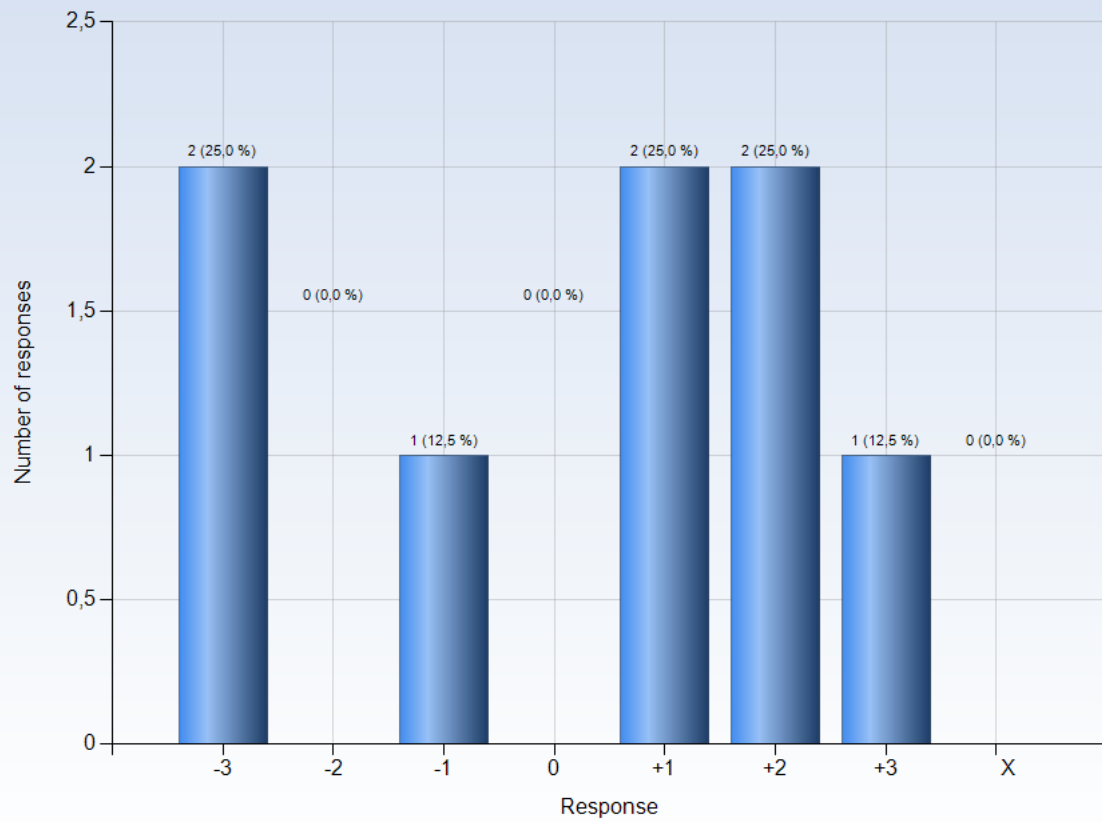
Comments

14. I received regular feedback that helped me to see my progress



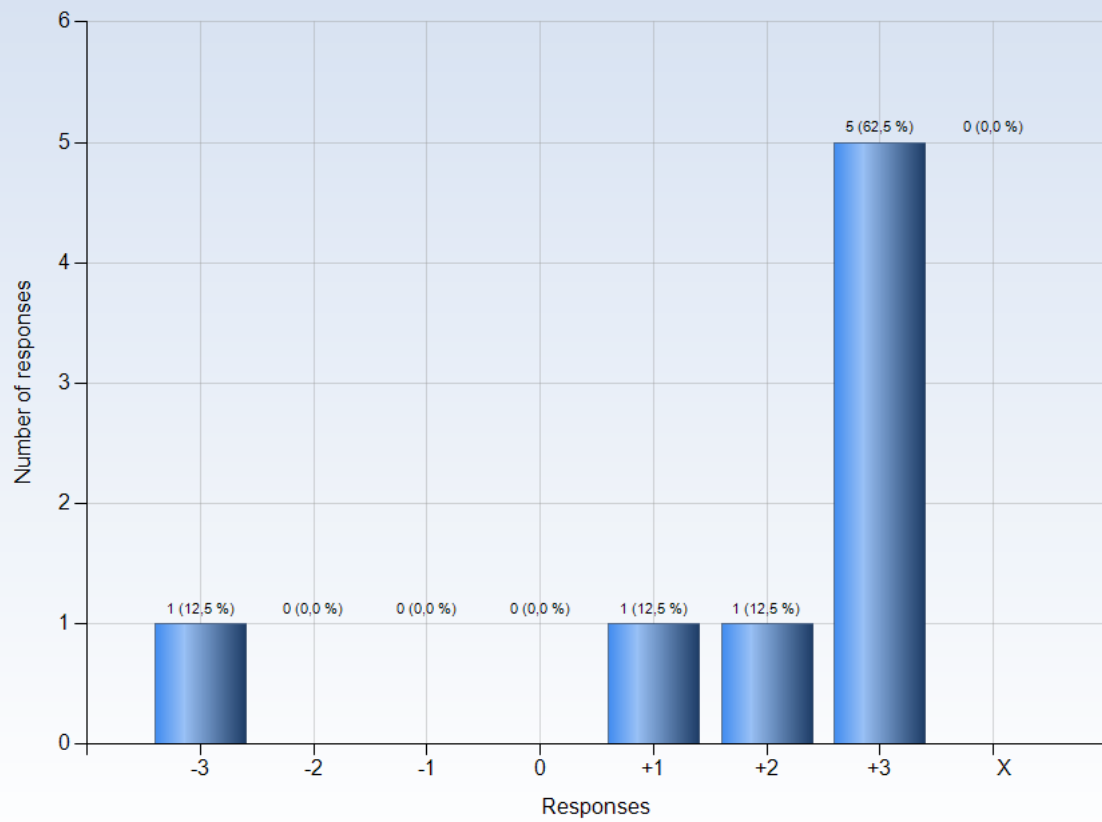
Comments

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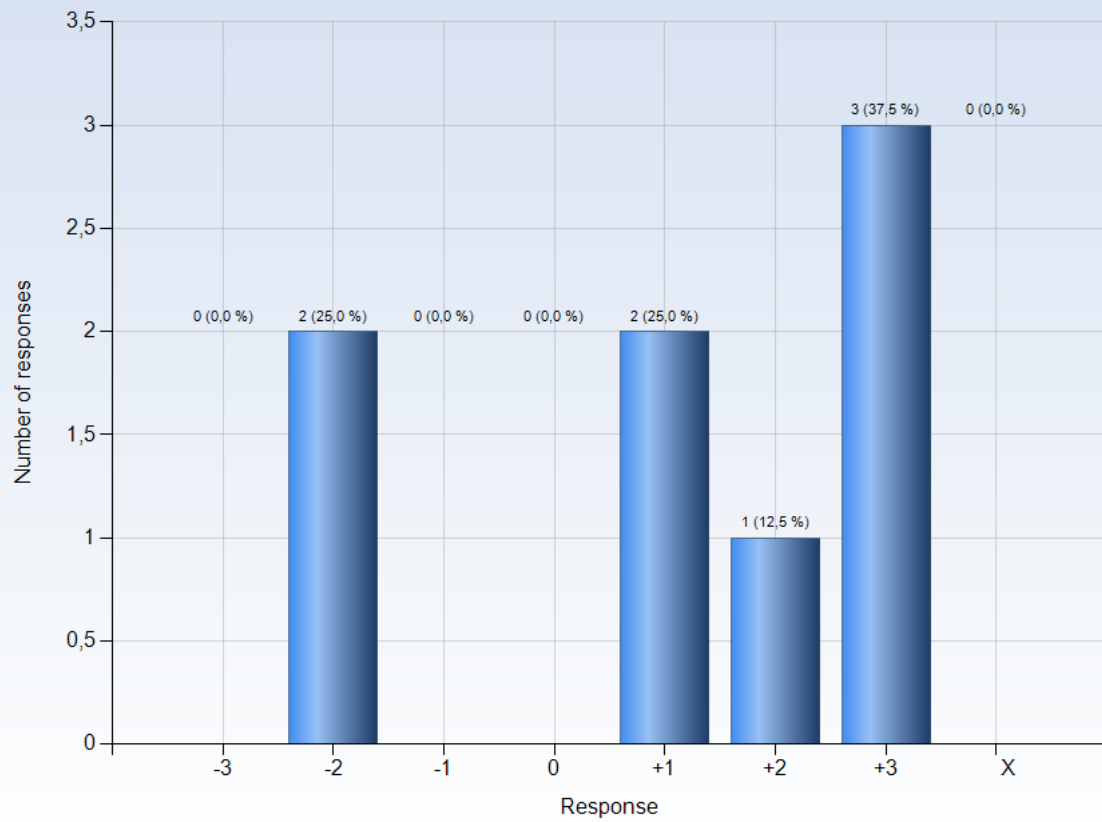
Comments

16. The assessment on the course was fair and honest



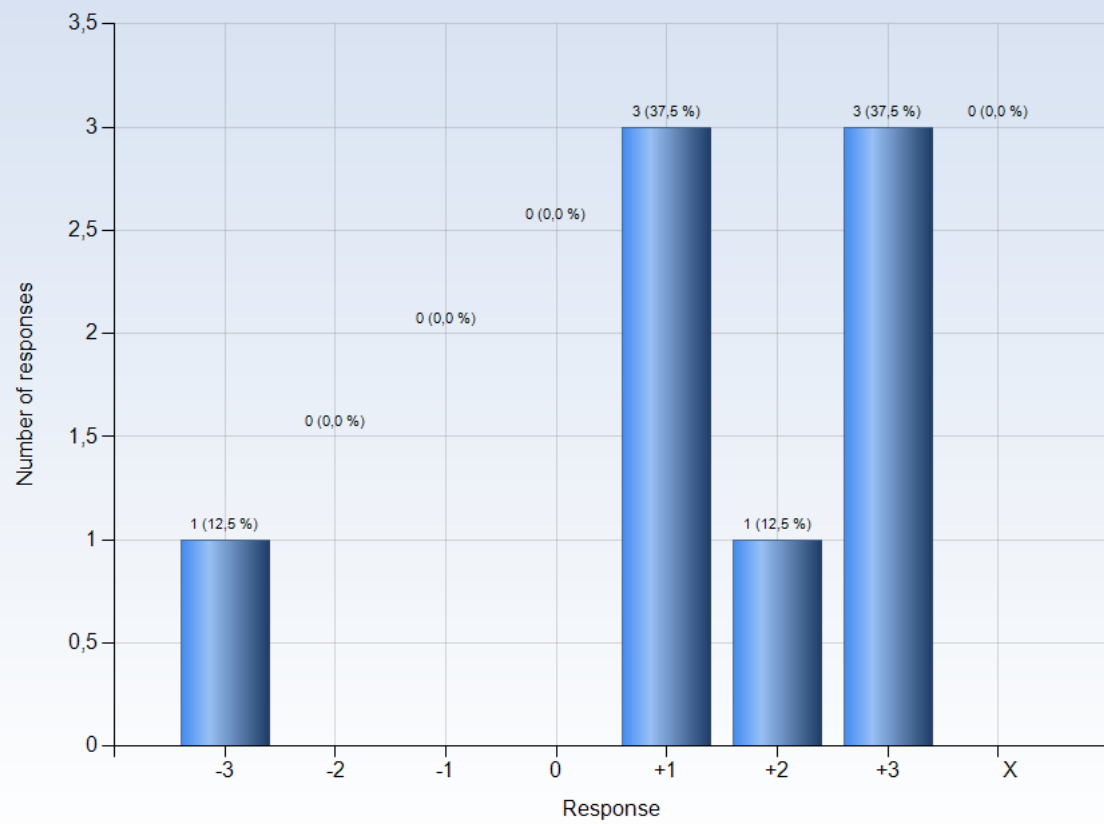
Comments

17. My background knowledge was sufficient to follow the course



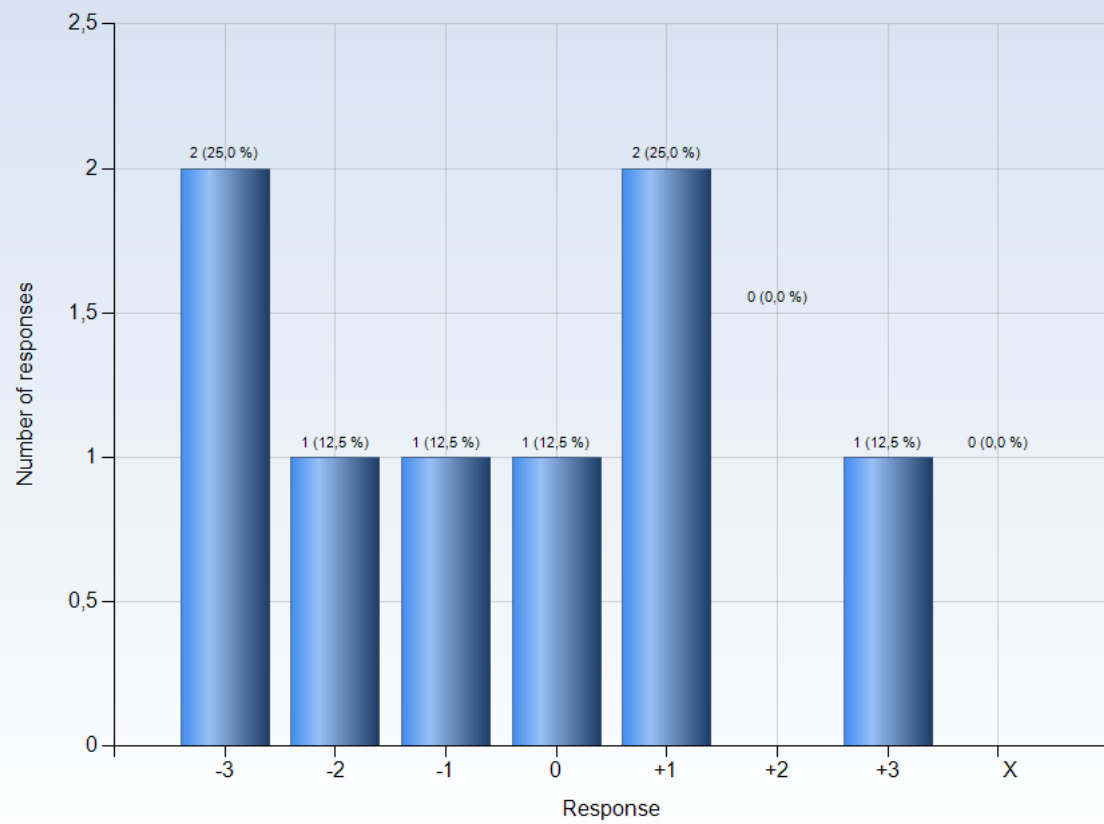
Comments

18. I regularly spent time to reflect on what I learned



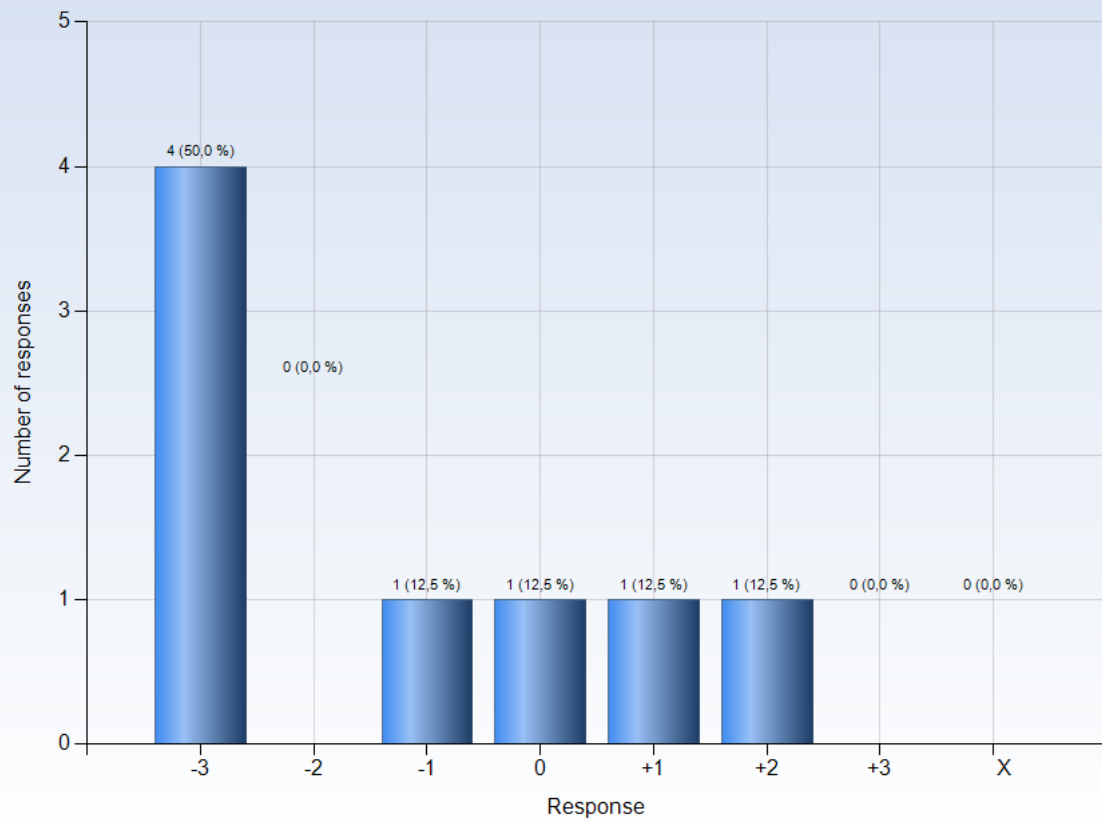
Comments

19. I was able to learn in a way that suited me



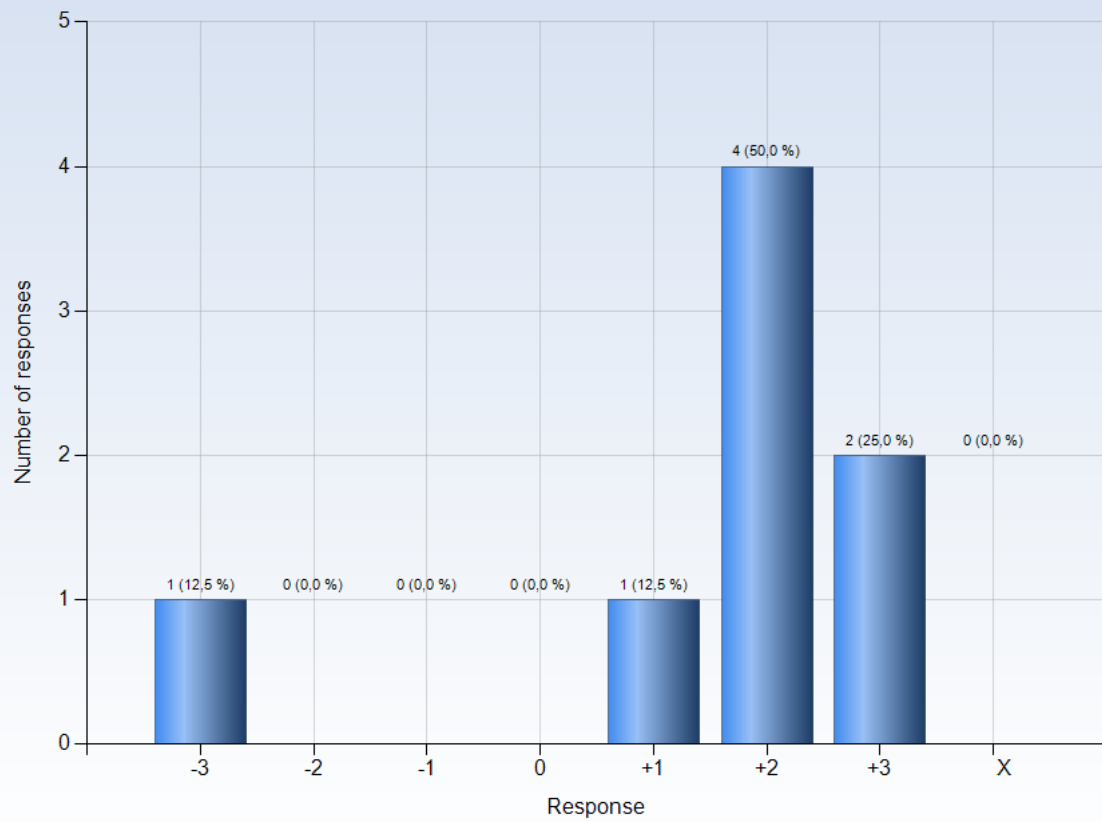
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20. I had opportunities to choose what to do



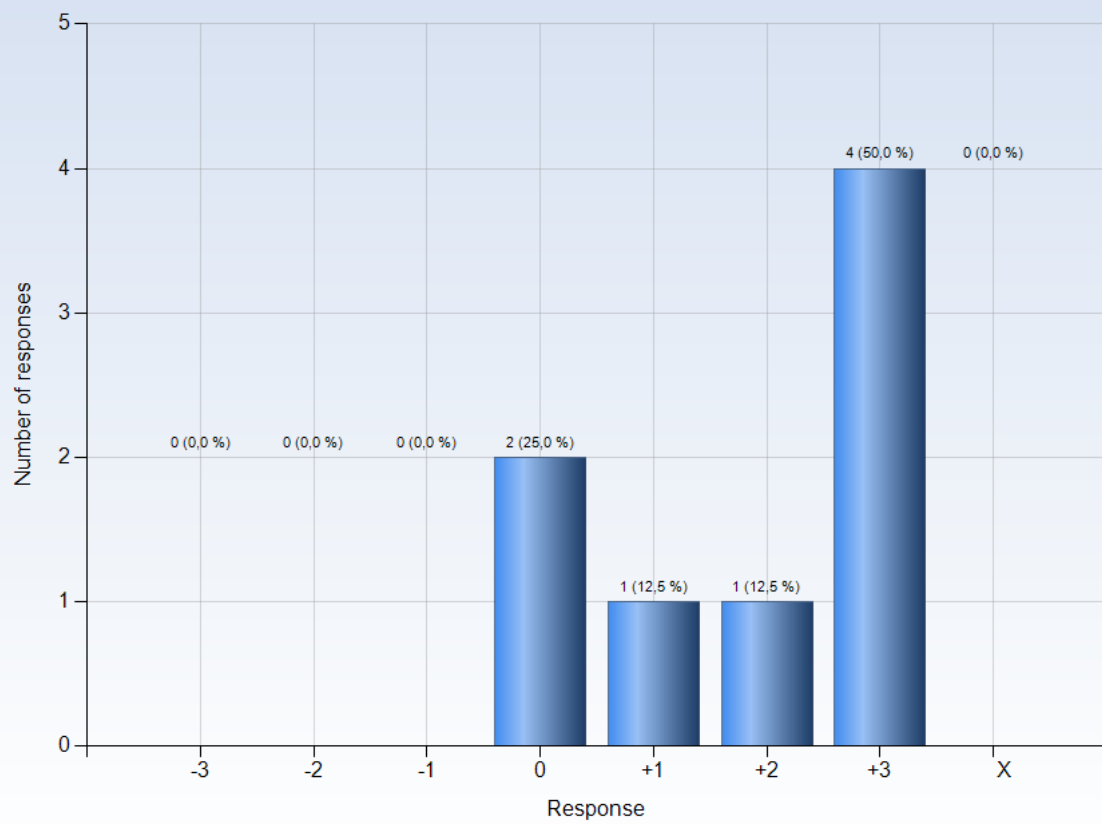
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21. I was able to learn by collaborating and discussing with others



Comments

22. I was able to get support if I needed it



Comments

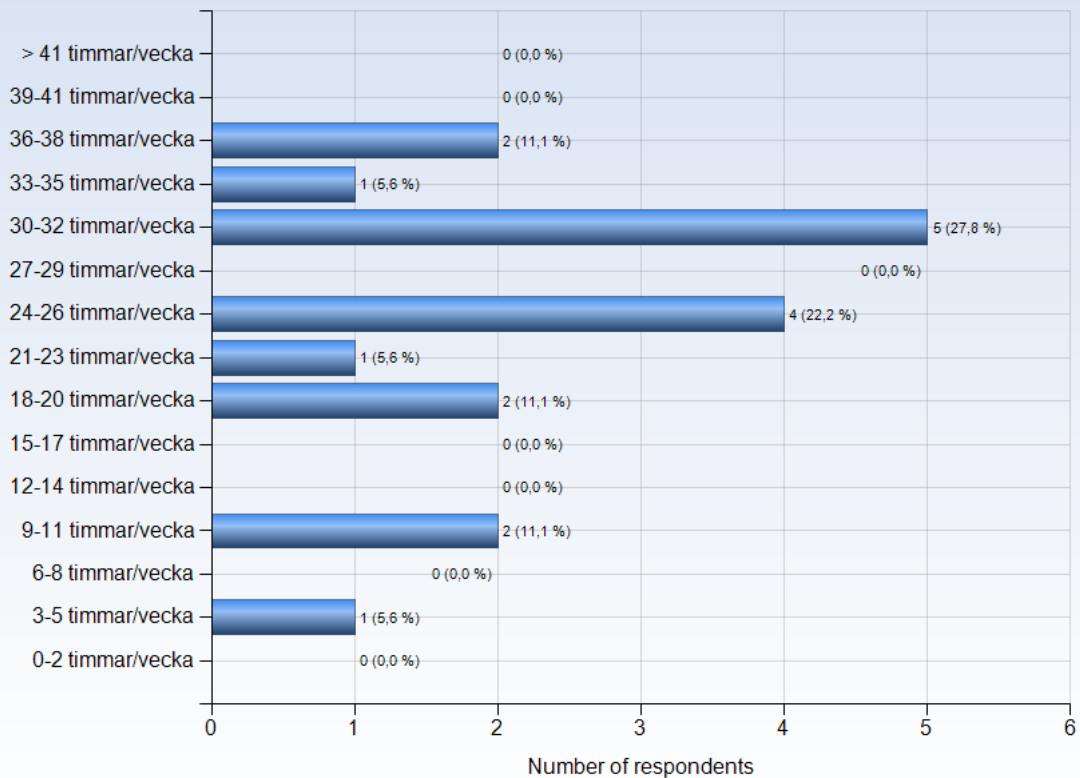


SG2212 - 2017-03-15

Antal respondenter: 54
Antal svar: 18
Svarsfrekvens: 33,33 %

ESTIMATED WORKLOAD

On average, how many hours/week did you work with the course (including scheduled hours)?



Comments

Comments (I worked: 18-20 timmar/vecka)

Maybe even more, but this is a rough estimate.

Comments (I worked: 30-32 timmar/vecka)

I would it extremely difficult to do the assignment in Matlab since i did not have any prior knowledge in matlab. So please specify Matlab as a prerequisite. Also pratical examples which explains the partial differential equations will be really useful.

Way too many. This course may be the cure for alcoholism, after studying for the homework every weekend i had no energy left to have a beer.

(I'm having a beer now, like the first one in over a month. Damn it tastes good! Cheers!)

Comments (I worked: 33-35 timmar/vecka)

The workload was excessive.



LEARNING EXPERIENCE

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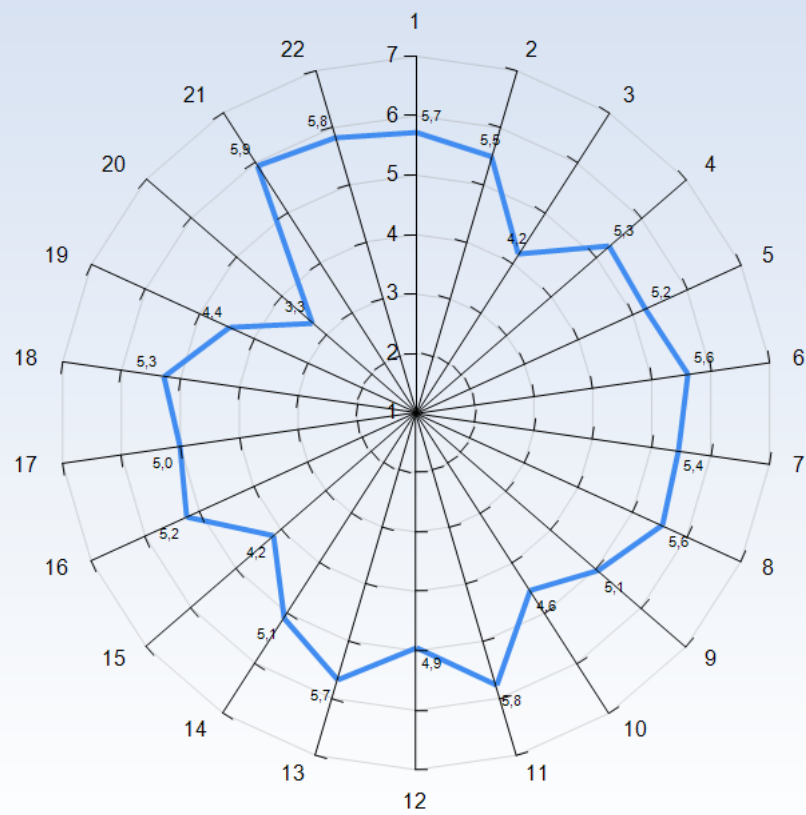
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Average response to LEQ statements - all respondents





KTH Learning Experience Questionnaire v3.1.3

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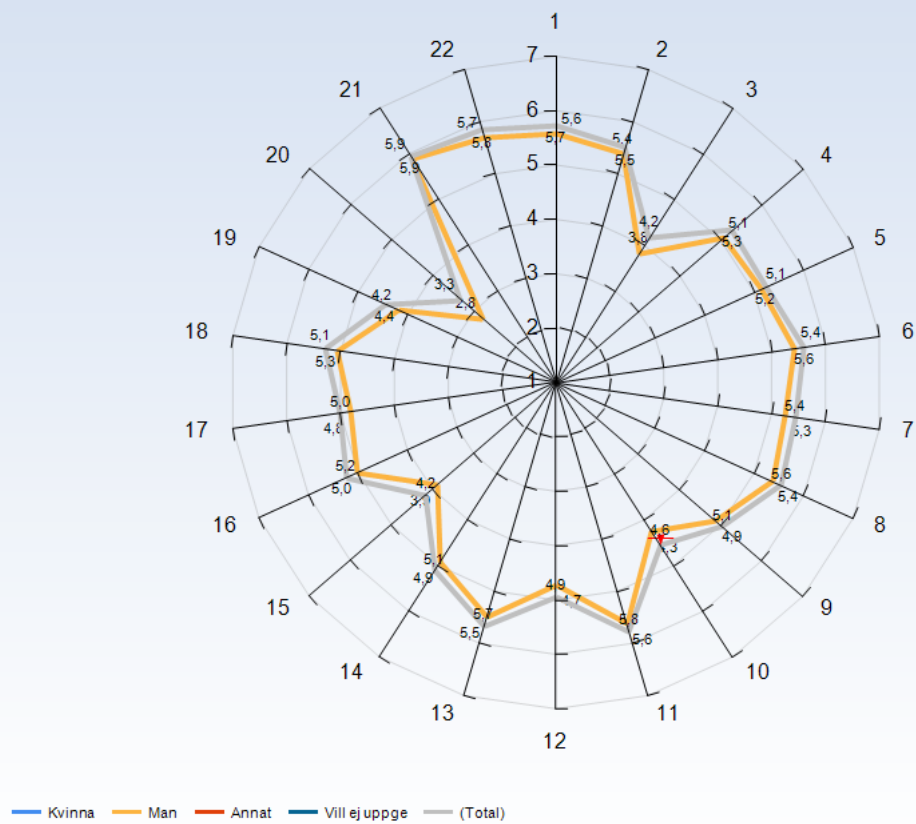
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Ramsden, P. (2003). *Learning to Teach in Higher Education*, Chapter 6, pp. 84-105. New York: RoutledgeFalmer.

Average response to LEQ statements - per gender

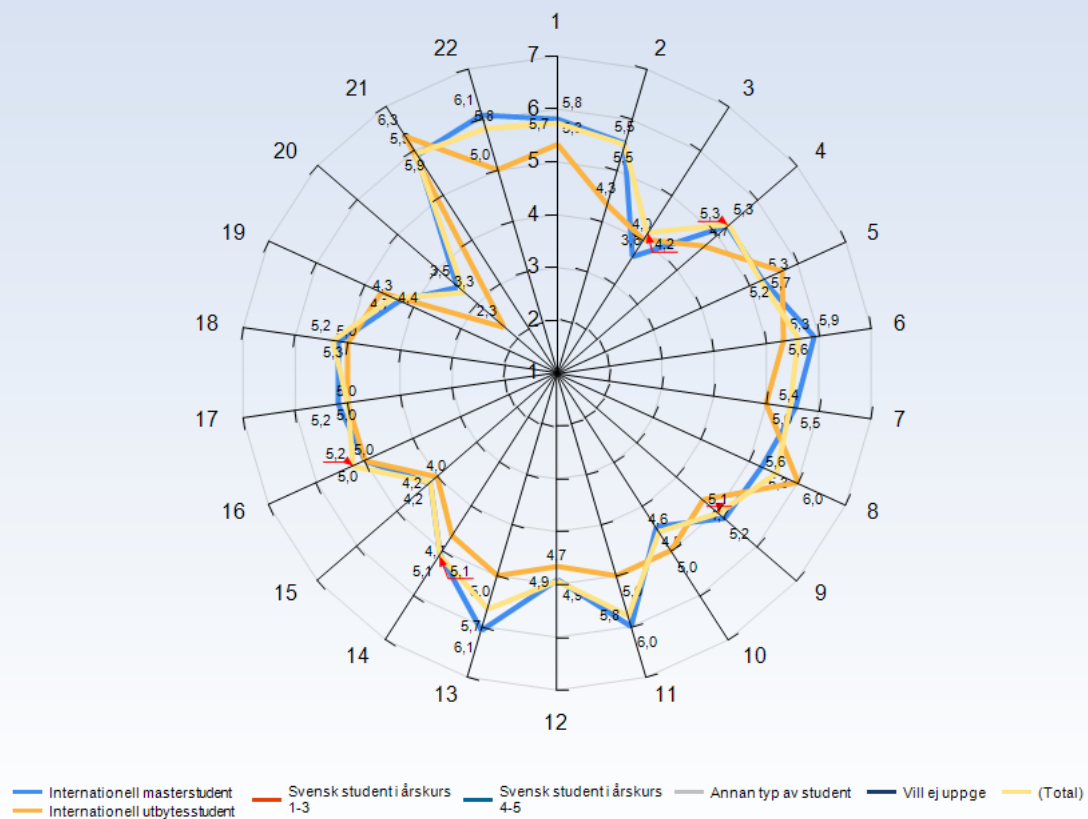


Comments

Comments (I am: Man)

What's there to comment about?

Average response to LEQ statements - per type of student



Comments

Comments (I am: Svensk student i årskurs 4-5)

Well, according to KTH i am a 4 year student. According to my records a 6 year student.

Comments (I am: Annan typ av student)

International double degree



GENERAL QUESTIONS

What was the best aspect of the course?

What was the best aspect of the course? (I worked: 3-5 timmar/vecka)

Homeworks

What was the best aspect of the course? (I worked: 9-11 timmar/vecka)

The course covers a quite large spectrum of CFD.

What was the best aspect of the course? (I worked: 18-20 timmar/vecka)

The course is well organized so we could learn from simple to deep.

There were many best aspects here.

To name a few:

Teachers wrote and spoke clearly. They also have a sense of humor which is always appreciated.

HWs that are well thought out. I learned a lot doing them and they were relevant for the exam.

Exam was put as late as possible!

What was the best aspect of the course? (I worked: 21-23 timmar/vecka)

I have already passed two courses in CFD during my previous master program. Honestly, I believe that the materials of the course, considering the number of lectures, were comprehensive and really useful.

What was the best aspect of the course? (I worked: 30-32 timmar/vecka)

Exposure to various schemes such as Crank-Nicolson, Adams-Bashforth, Lax-Wendroff...etc

That we were given a good insight on what CFD actually is and how it's done.

Professors were really good.

Lectures by Philipp, tried to give examples after presenting a concept. But probably could be better.

The homeworks and project

What was the best aspect of the course? (I worked: 36-38 timmar/vecka)

The project and the assignments help you a lot to understand what you did in the lectures.

Project



What would you suggest to improve?

What would you suggest to improve? (I worked: 3-5 timmar/vecka)

Feedback on homeworks are very very succinct

What would you suggest to improve? (I worked: 9-11 timmar/vecka)

I didn't find many interest in the homework sessions. I think that this format is not very appropriate to add value to the course, and didn't really help me if I had difficulties during the course.

What would you suggest to improve? (I worked: 18-20 timmar/vecka)

For the homework sessions the assistants could show up 10-15 minutes before the second half starts and make sure the projector (and other things they need to use) works instead of doing that when the class is supposed to start and then lose 10 minutes or more because of it.

The first few HWs did not go out on time for some reason, so there's an area of improvement until next time.

What would you suggest to improve? (I worked: 21-23 timmar/vecka)

As I mentioned before, the grading system is the only thing which I think needs to be reconsidered.

What would you suggest to improve? (I worked: 30-32 timmar/vecka)

Need more practical examples why and how these schemes are used like flow in pipe where lax wendroff and gudonov method is used, flow around a cylinder for coordinate transformation,

More time for understanding the course.

Maybe be more interactive with the students.

Duration of the course should be increased a bit and the fluid dynamics part should be taught in detail, the course seemed like a course about learning numerical methods and its application on Matlab. Not enough emphasis was given on the physics of fluids, which was highly disappointing.

Have more lectures and also exercises. The notes that one could download and print was ok. But if they had been even more descriptive there would have been no need for taking my own notes.

Which made me divert focus from what was being said to actually writing stuff.

CFD is a very interesting and important subject. In my opinion, this course should run for a whole semester instead of just a quarter. This would allow for greater inclusion of actual fluid dynamics. It would also enable students who are not from the Fluid Mechanics program to get a more in-depth exposure to both the Computational and Fluid Dynamics parts of CFD. Yet another advantage of having the course for the entire semester would be that there can be more homeworks which could help cement everything that was taught during the lectures.

What would you suggest to improve? (I worked: 33-35 timmar/vecka)

Homeworks + Project + 7.5 ECTS Exam in 2 months. It was exhausting. Definitely, the lectures should be done in a lower pace, the teachers should try to teach the students, and not themselves. Either the homeworks or the project should be removed and the exam material should be discussed further in terms of actually solving concrete problems inside the class. This field of study is particularly difficult, the lectures should change, in a way to help students visualize the problems (ppt lectures, not that much writing and with this crazy pace).

What would you suggest to improve? (I worked: 36-38 timmar/vecka)

The part of the incompressible flow should be more comprehensive. It's too difficult to follow in the way that is done.

More example exercises. More accurate guidance over homeworks



What advice would you like to give to future participants?

What advice would you like to give to future participants? (I worked: 9-11 timmar/vecka)

Think about beginning the homeworks early enough :)

What advice would you like to give to future participants? (I worked: 18-20 timmar/vecka)

You could understand the course and complete the assignment more easily if you learned matlab before.

Start early with the study questions. Even doing two a week (then doing more during the self-study period) will help a lot in the end!

What advice would you like to give to future participants? (I worked: 30-32 timmar/vecka)

please take this course if you have more time to spend. Also please try to study Matlab in advance and also some numerical methods and computational mathematics

Don't wait to do the study questions, do them right away! And preferably more than once.

If you are not good at Matlab, follow the Matlab notes and start practicing. Implementation of what you have learned in the course is really important.

BE PREPARED!

It had been a few years since I took the Numerical Methods and basic Fluid Mechanics courses and I had forgotten quite a few things. If interested in taking this course, I would suggest a rigorous review of the aforementioned subjects.

What advice would you like to give to future participants? (I worked: 36-38 timmar/vecka)

Start each assignment and the project early.

Try and learn MATLAB as best as you can

Is there anything else you would like to add?

Is there anything else you would like to add? (I worked: 9-11 timmar/vecka)

I don't like the format of the examination. I think that this form of evaluation doesn't bring anything to the course, it's just learning the course by heart and repeating it. I prefer exams where we have to think about a problem and reflect about it.

Here, since we have the potential questions in advance and the questions of the exam are exactly these ones, there is no reflection but only repeating the course. Someone with good memory could easily get the maximum grade just by learning the answers by heart. The only interesting part is to prepare answer to the questions in advance, but most of them are very easily answered by looking in the course material, with very few reflection.

Is there anything else you would like to add? (I worked: 18-20 timmar/vecka)

No, thank you.

All in all a great course and hopefully I'm well prepared for the follow-up course.

Is there anything else you would like to add? (I worked: 30-32 timmar/vecka)

Thank you for a great course!

More time should have been spent to teach the physics behind the behavior of fluids, that is more important than learning about a few numerical methods to solve PDEs on Matlab. The numerical methods and PDEs can be learnt in a mathematics course as well! Please try and give importance to the fluids part, if possible I recommend addition of a lab session or any practical exposure event for students to make them familiar with CFD.

Provide solutions to the study questions! A lot of people can't be bothered to submit a comment on KTH social. It's enough that my friends know that I am a dumbfuck.

Is there anything else you would like to add? (I worked: 36-38 timmar/vecka)

The amount of the things that are asked to know for the examination is really too much. One can't remember all the study questions and to derive everything. However, the exam is straightforward and not so difficult. The problem is only in the amount of what you need to know and remember.

SPECIFIC QUESTIONS



How many of the lectures and exercises did you attend (in %)?

How many of the lectures and exercises did you attend (in %)?

i missed around 5 lectures at the end where i was not able to follow due to lack of time

90%

Out of 25 lectures I missed 3

-> Attendance: 88%

100%

60

85%

100%

99

25

All, at least physically.

80

100%

Lectures : 85%

Exercises : 30%

100%

Was your background adequate for this course?

Was your background adequate for this course?

nope. Prerequisite of matlab is a must. i lost a lot of time studying matlab and also on the confidence of the home assignment since no solution was given after the assignment

kind of, but the matlab part is more difficult for me, because I never used it before.

Yes. Engineering Mechanics, track: fluid mechanics

and

Bachelor's program in Vehicle engineering at KTH.

Even though I had an adequate background in fluid mechanics and computational analysis, the course was more demanding.

Yes

no

yes

Not really, I don't have a basic course in fluid dynamics, but I think I managed to hang on to the course anyway.

Yes

Heck no! I only had a background in numerical methods.

Yes

Had some MATLAB issues

Yes. A bit overlapping at the beginning but most of the course was new.

The theoretical part of the course relies on very basic maths that I guess every engineering student get during the first or second year; and most of the fluid mechanics that is needed is covered at the beginning of the course.

Yes, but it had been a few years since I had taken the prerequisite courses and one usually tends to forget things if not in regular touch with the subjects.

What did you think about the difficulty/speed of the course in general?

What did you think about the difficulty/speed of the course in general?

needed more time. more class with regular intervals (3 class per week will be optimal)

The homework assignments are the most difficult part of the course.

At times it went fast. However, I would not want it to slow down.

Speed/pace of the course is really high. The difficulty is also in top level.

Ok

very difficult

The pace of the course was high. Also the workload was too high and the things that are covered in the course are a lot.

It was fast, but on the other hand it would have taken a lot of lectures if the pace of the course was lowered.

Speed: Very High

Difficulty: Average

3 real ingoing characteristics for a Hyperbolic problem.

In some of the lectures, some wall to wall problems were presented. Then you asked "any questions?". People did not even notice it because they were so occupied with taking notes.

The course is difficult to handle with other demanding courses. Homeworks are very time consuming and slow you down.

The speed is good, and it could be even be a bit more difficult without any problem.

Quite on the hectic side due to the restricted time of one quarter.



What did you think about the lecture (organisation, explanation, literature)?

What did you think about the lecture (organisation, explanation, literature)?

lectures were of high quality but needed some practical applications of the scheme should be mentioned

The course is well organized, the professor could explain the things well.

Great! It's good that there are notes on Social also.

Also good was that Ardeshir said from the beginning (I believe it is also written somewhere on Social) that no book covers this course completely and that it's not super necessary to own any of them. I believe he was right because I mostly have been used the notes from the lectures to study and solve the HWs.

Lectures should change. Especially in the incompressible flow lectures it was impossible to follow the teacher with all the writing. This had as a result to study endless hours to understand the lecture's material. Also, there were some mistakes on the lectures, that affect the studying and understanding process.

Good

Tutorials were very badly organised by the TAs but lectures were well organised

Everything that you need is provided.

It was great!

Good, but can be improved.

Organisation was good. Explanation can be improved. Literature, Anderson book was ok.

Very organised, Good explanation. It would be better if you could find on the literature more examples over stability analysis

Lectures are good. Both teachers are quite clear and accessible in case something is not clear.

At times, explanation seemed inadequate especially to me. One instance was setting up of the staggered grid. I did eventually figure out how to do it during HW-5, but it was something, if explained more in depth in class, would probably have not taken me that long to figure out.

What did you think about the homework sessions and the project (organisation, explanation, literature)?

What did you think about the homework sessions and the project (organisation, explanation, literature)?

Project and shock tube assignment was extremely interesting. But I felt the answers of the homework sessions needed to be explained in details in order to understand the mistakes.

kind of difficult without hints

HW sessions:

The first one was good, excluding the projector mishap that took a long time to fix.

I missed the second one, but went to the rest after that.

I am still unsure what they are supposed to do. Are they going to help us before a HW or are they going to help us with hard topics from the last HW??? (The 1st HW was clearly so that we could progress in HW2).

Project is well explained during lectures but also on paper, so no major problems there.

It is good that questions from earlier years in HW/project discussion (on Social) are still there, some of my questions were answered by reading through these.

They can't exist both. The project is much more interesting and it should start from the beginning, probably with a different way. The homeworks were difficult and time consuming and a lot of times they didn't keep up with the lectures (the deadline assignment was not reasonable).

Not useful

Difficult, stressful

They are pretty much straightforward.

Also great.

Very difficult and time consuming, especially for people who are not very skillful in Matlab!

Some of the homework sessions were after the deadline. COME ON???

But they took the time to answer all of our dumb questions so two thumbs up!

Project was fine and fair. You achieve by doing it the physics of this type of flow. The homework is very hard if you are new in MATLAB and the one hour explanation for it was not helpful at all.

See question "what would you like to improve".

Most of the HW sessions were helpful but one of them seemed completely out of context in relation to that week's homework. Or at least it was probably not stated explicitly how it related to the week's HW.



RESPONSE DATA

The diagrams below show the detailed response to the LEQ statements.
The response scale is defined by:

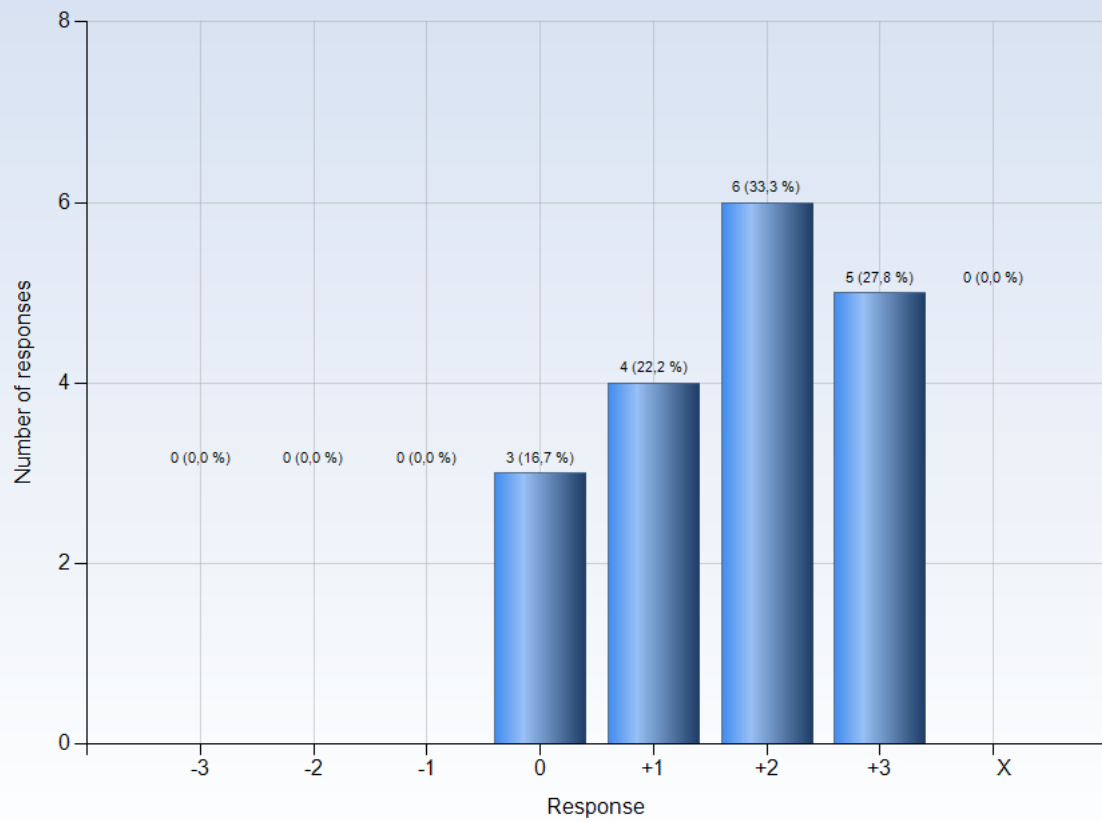
-3 = No, I strongly disagree with the statement

0 = I am neutral to the statement

+3 = Yes, I strongly agree with the statement

X = I decline to take a position on the statement

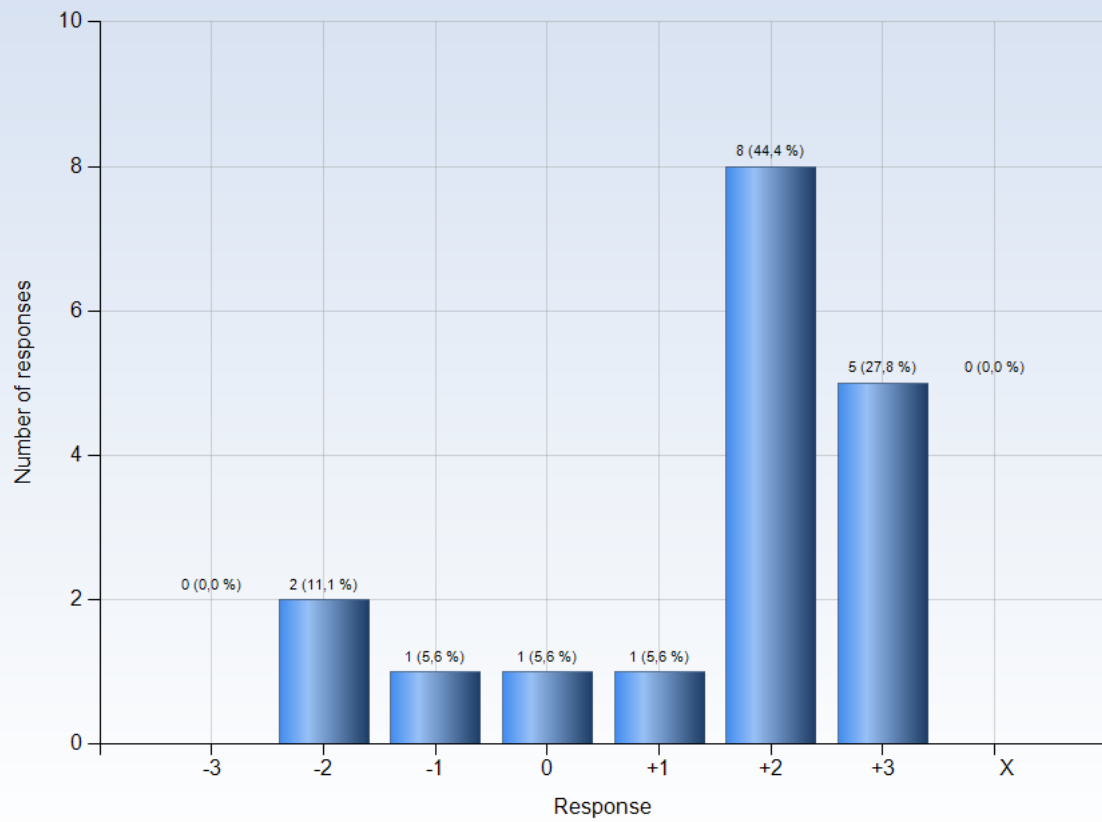
1. I worked with interesting issues



Comments

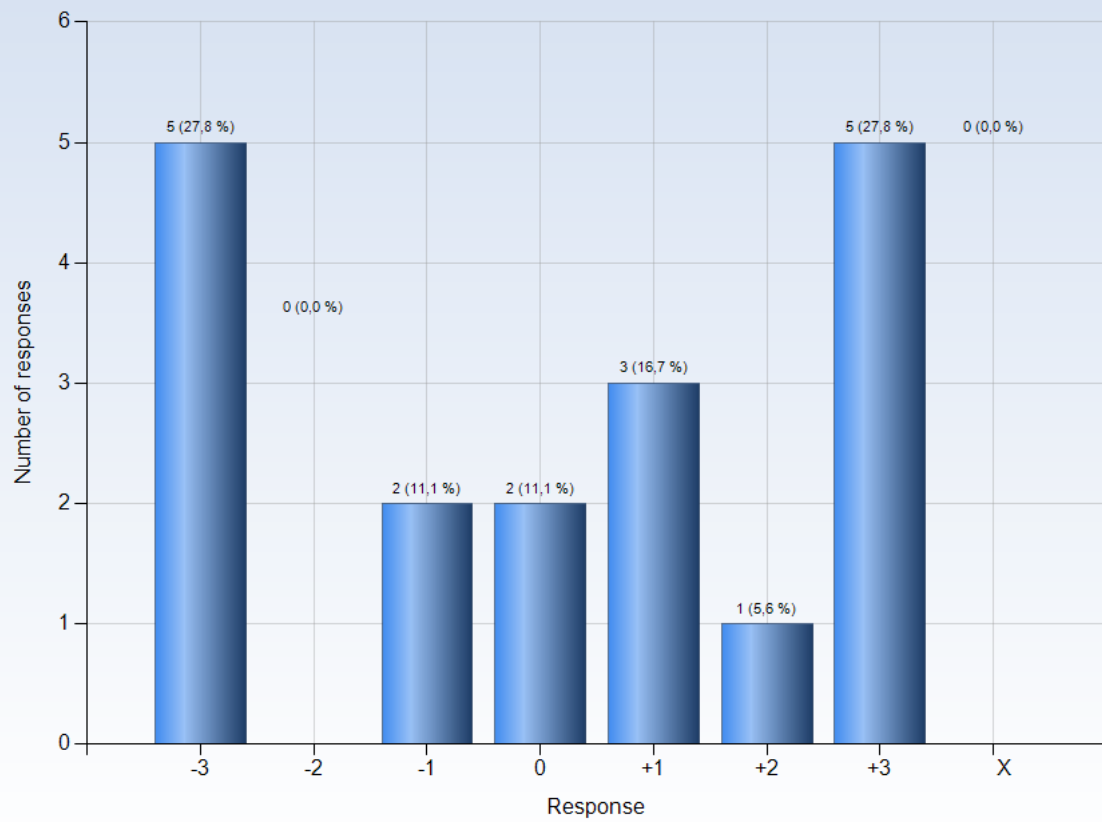
Comments (My response was: +1)
More practical problems were required

2. I explored parts of the subject on my own



Comments

3. I was able to learn by trying out my own ideas

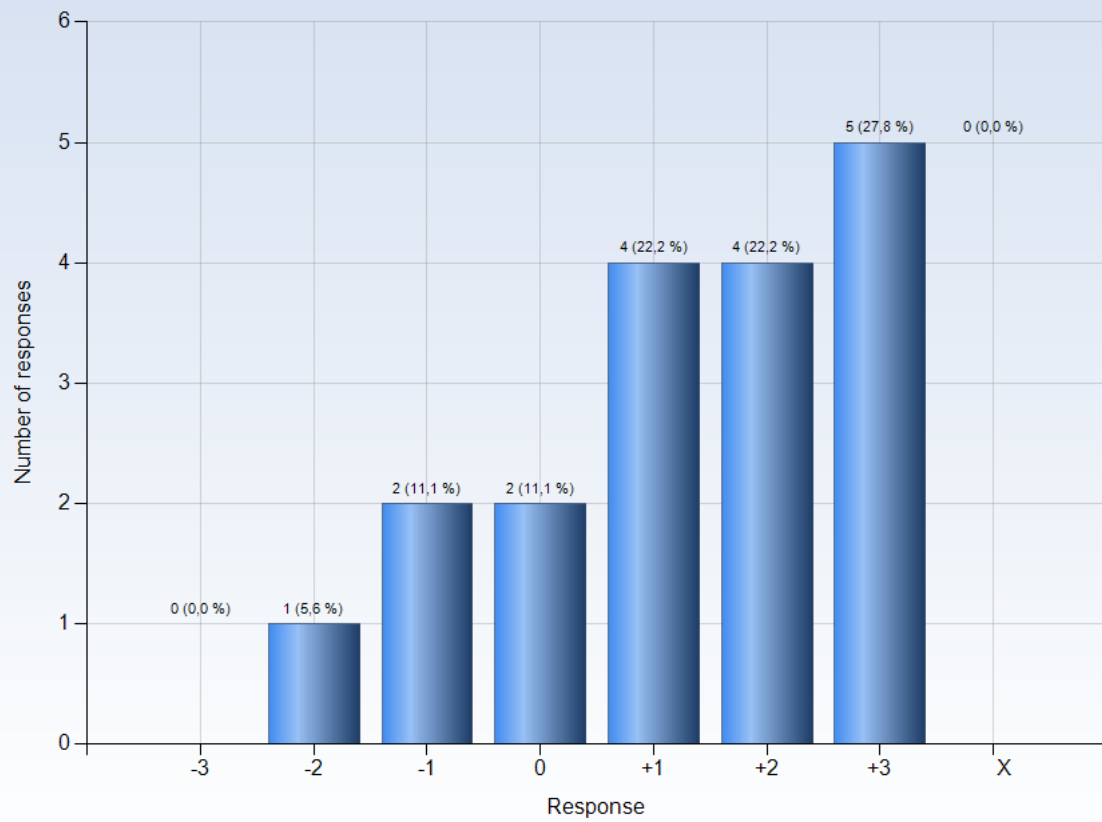


Comments

Comments (My response was: +1)

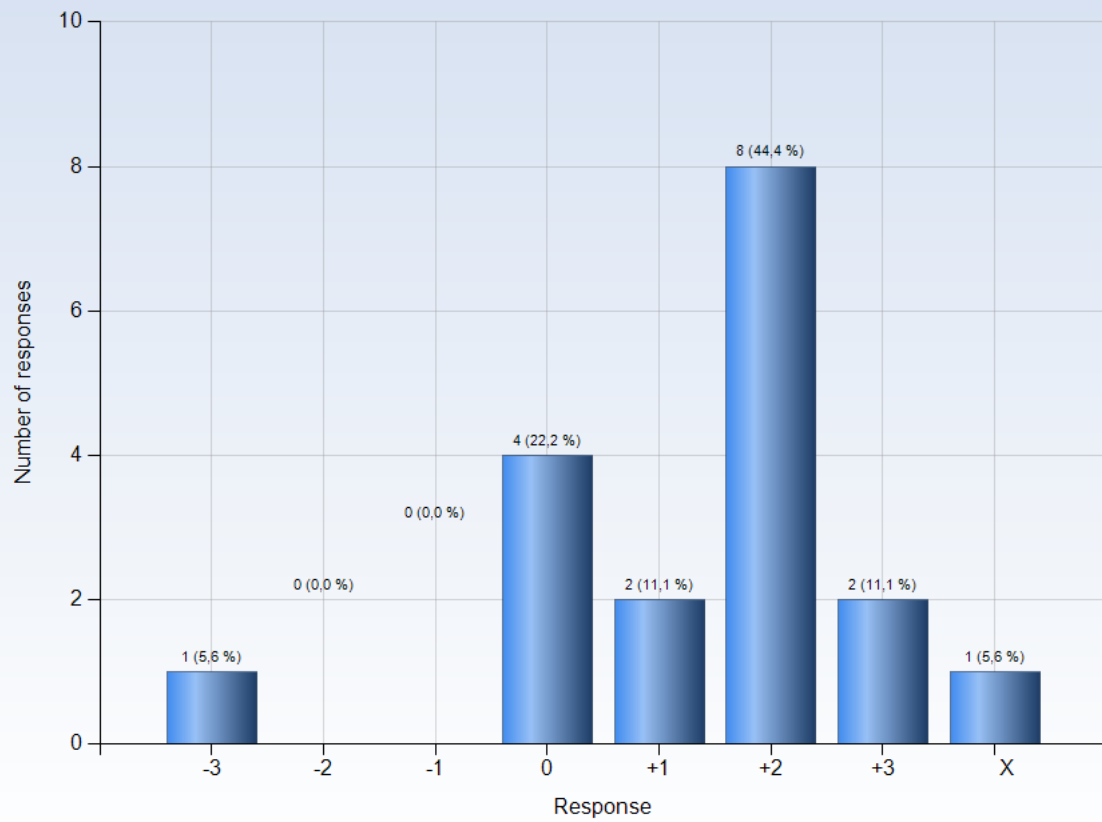
needed more time to understand complicated mathematics using PDE

4. The course was challenging in a stimulating way



Comments

5. I felt togetherness with others on the course

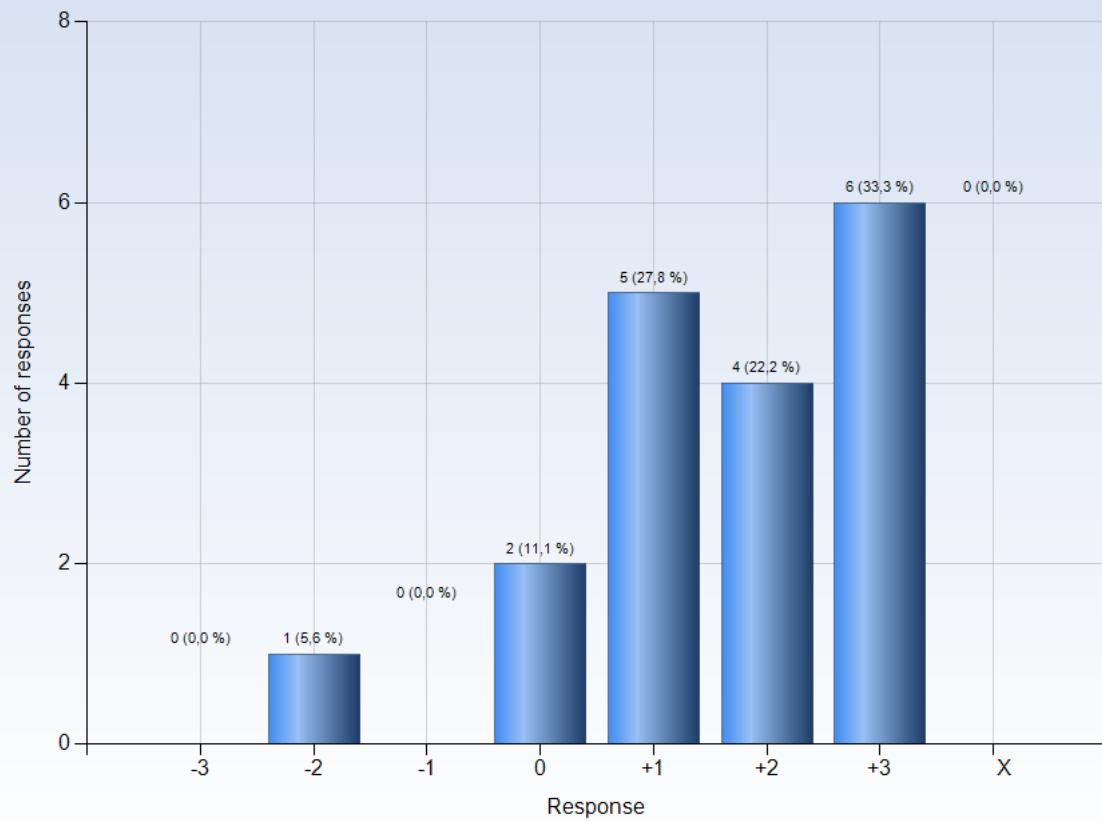


Comments

Comments (My response was: X)

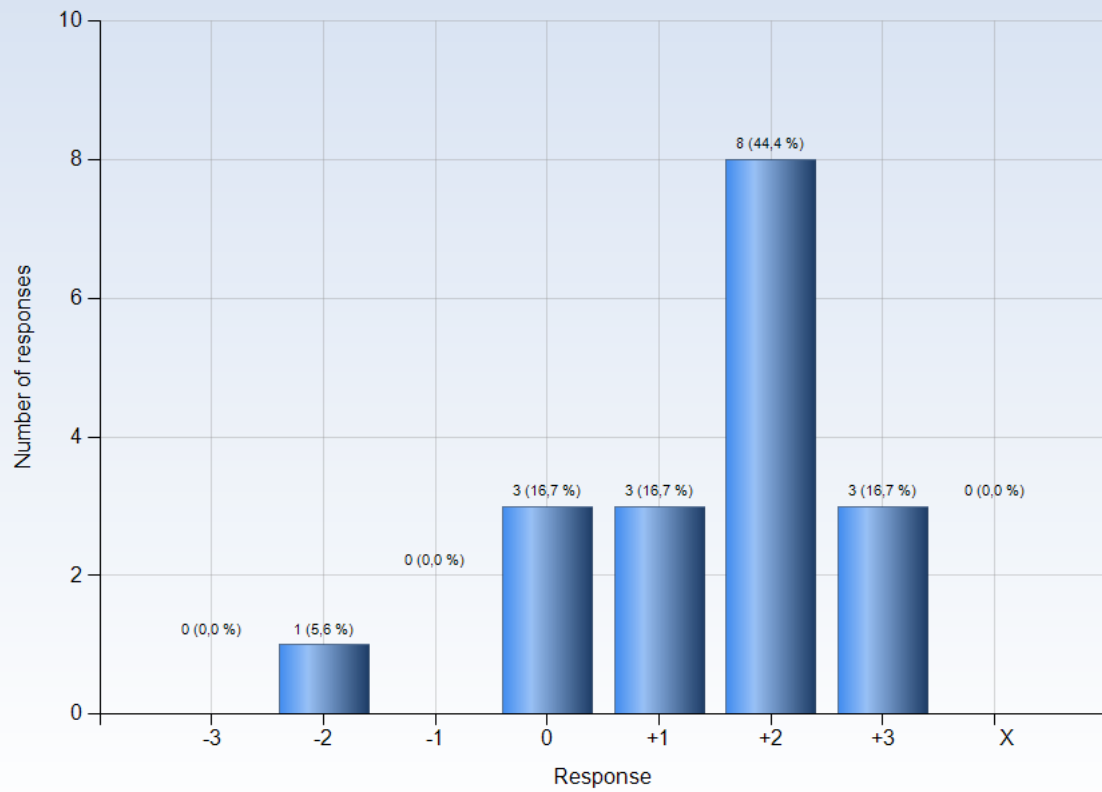
I have yet to understand this question and some other further down...

6. The atmosphere on the course was open and inclusive



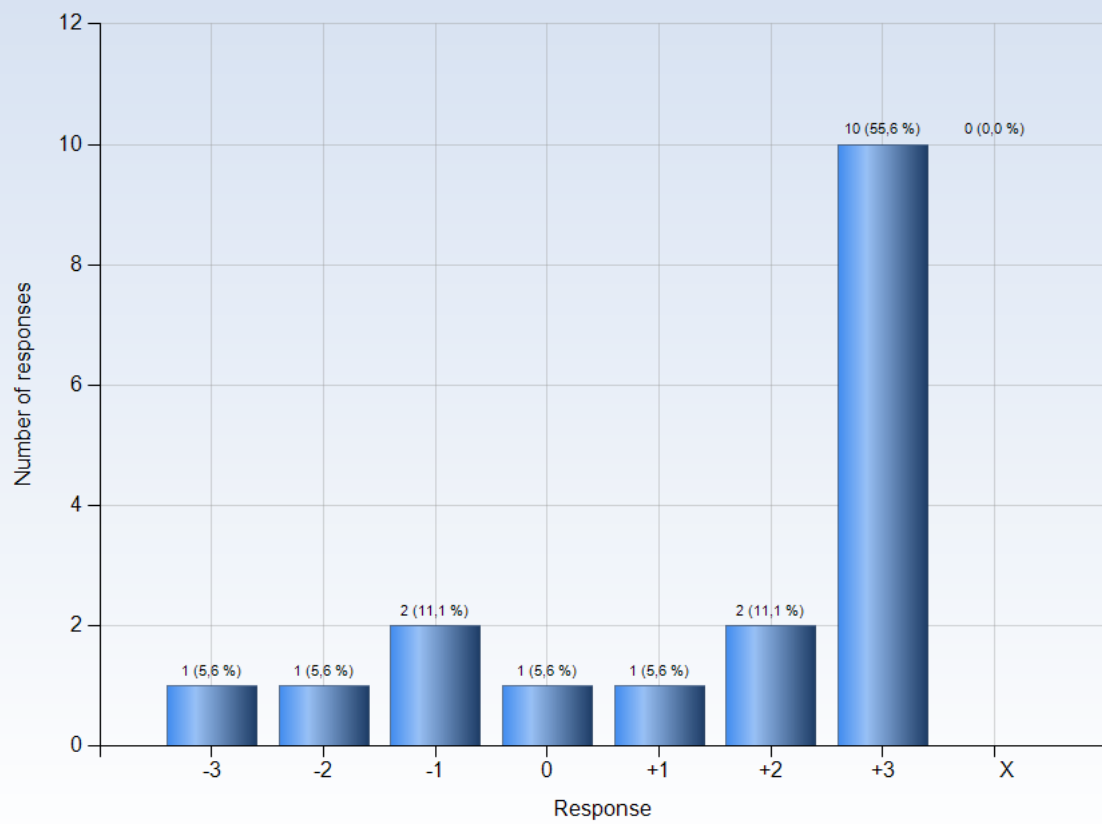
Comments

7. The intended learning outcomes helped me to understand what I was expected to achieve



Comments

8. I understood how the course was organized and what I was expected to do

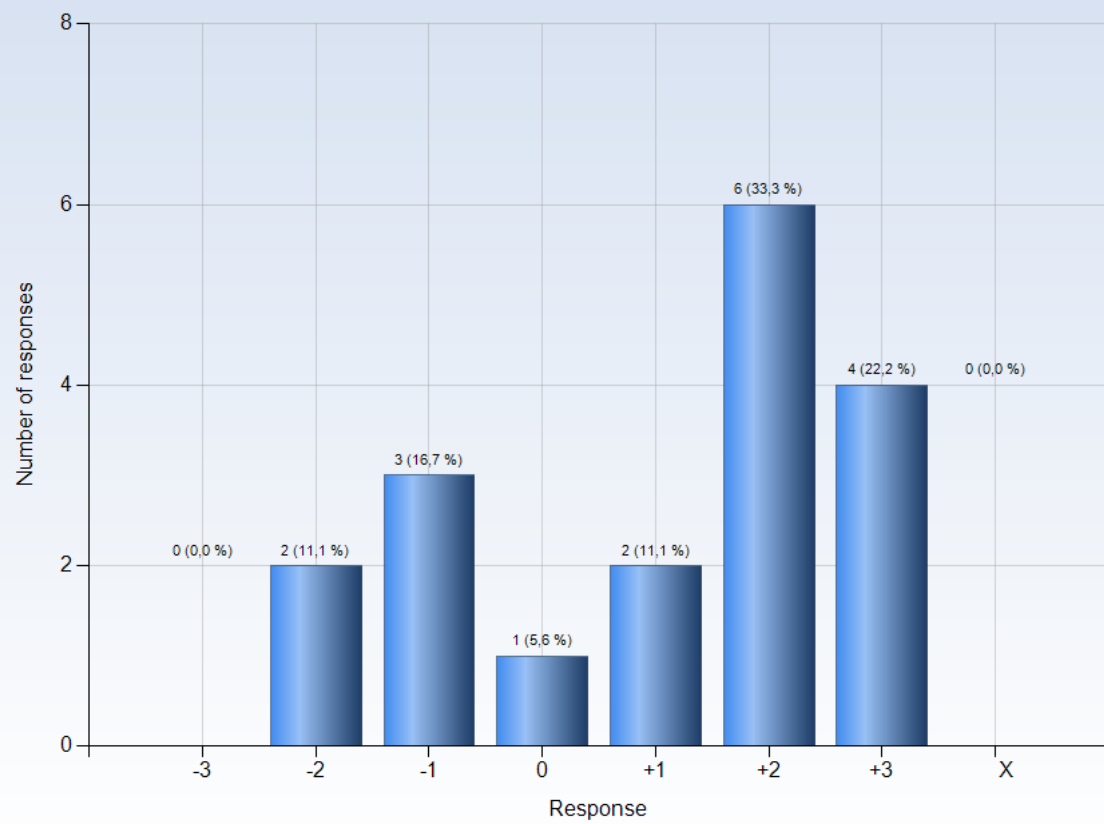


Comments

Comments (My response was: +1)

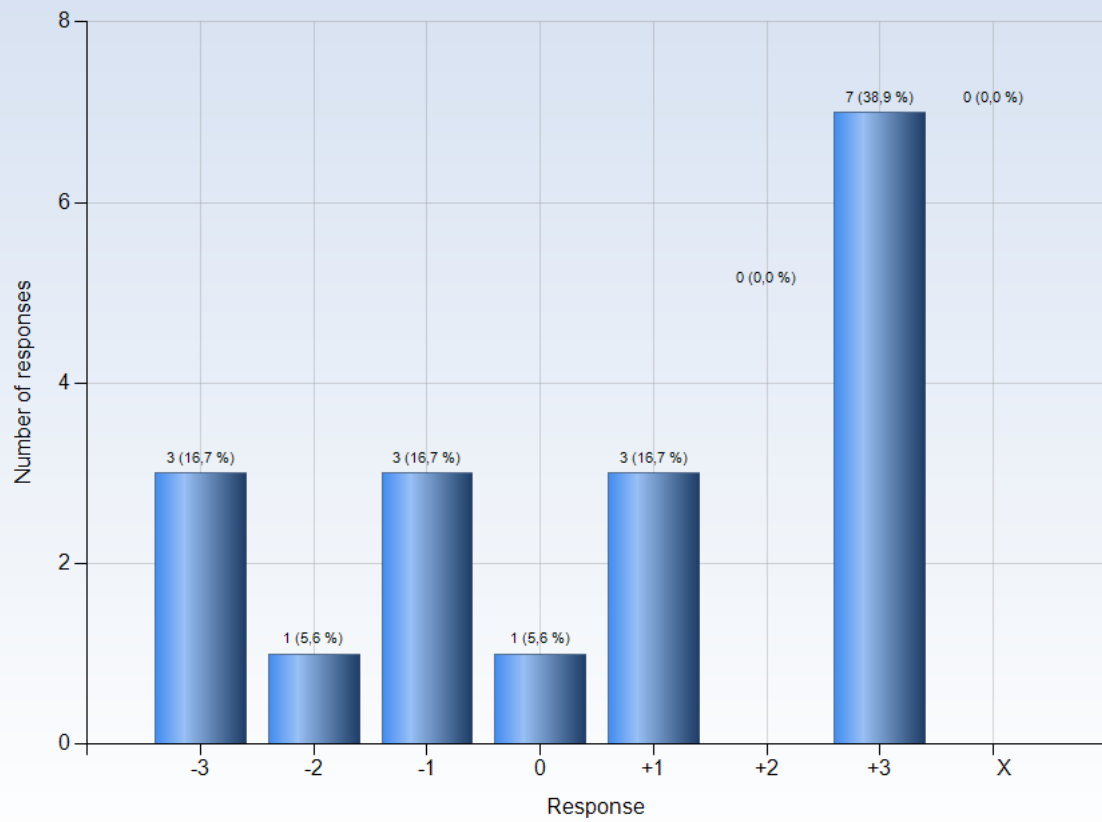
Initially felt why we are learning how to solve pde But with projet and shock tube problem i was able to understand

9. I understood what the teachers were talking about



Comments

10. I was able to learn from concrete examples that I could relate to

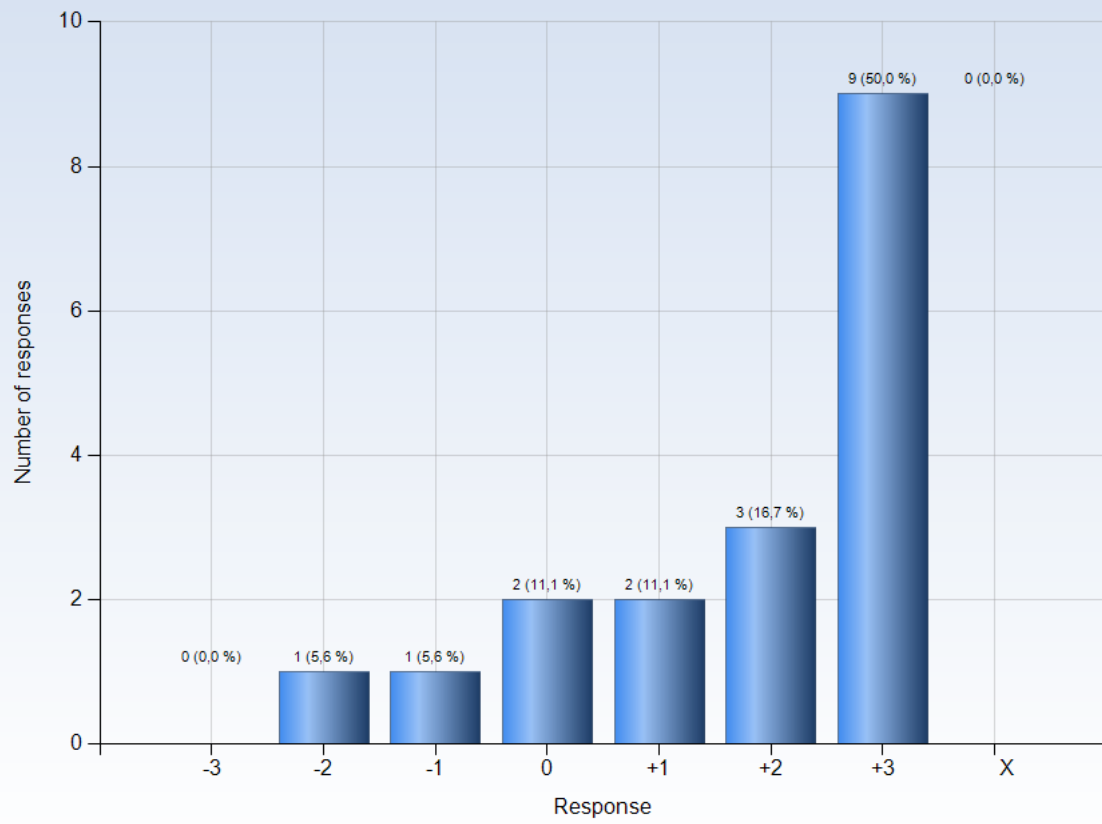


Comments

Comments (My response was: +1)

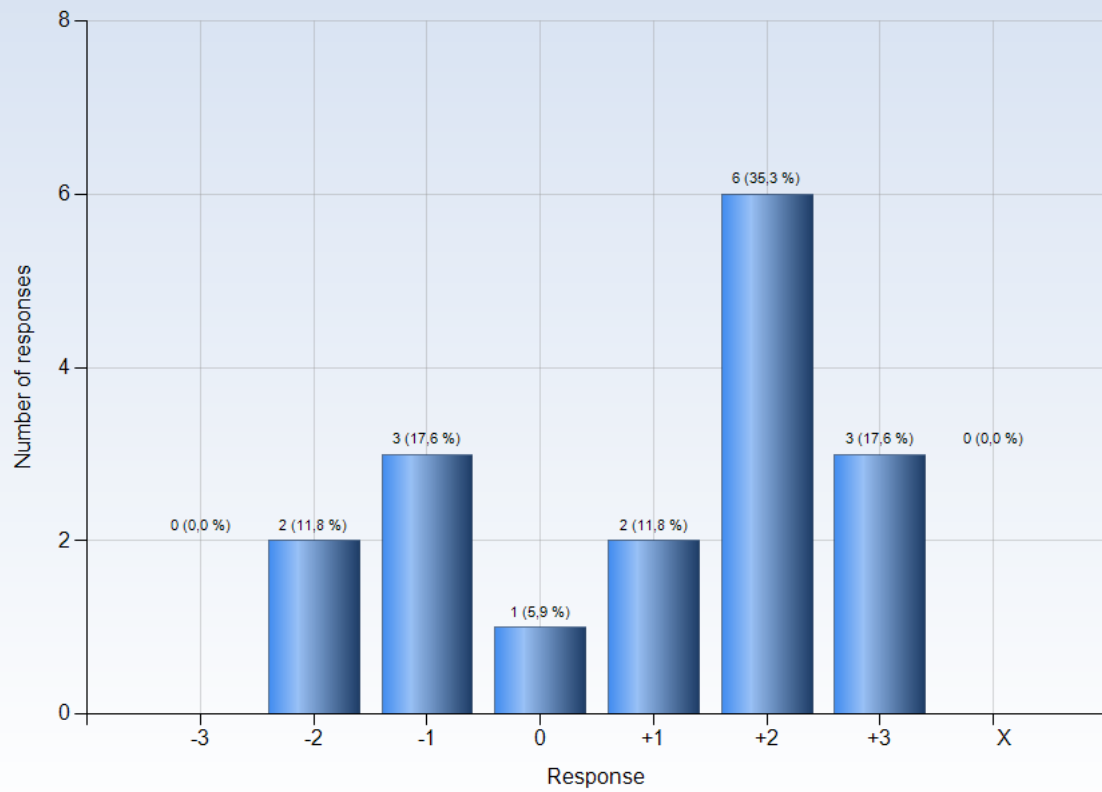
More Pratical examples

11. Understanding of key concepts had high priority



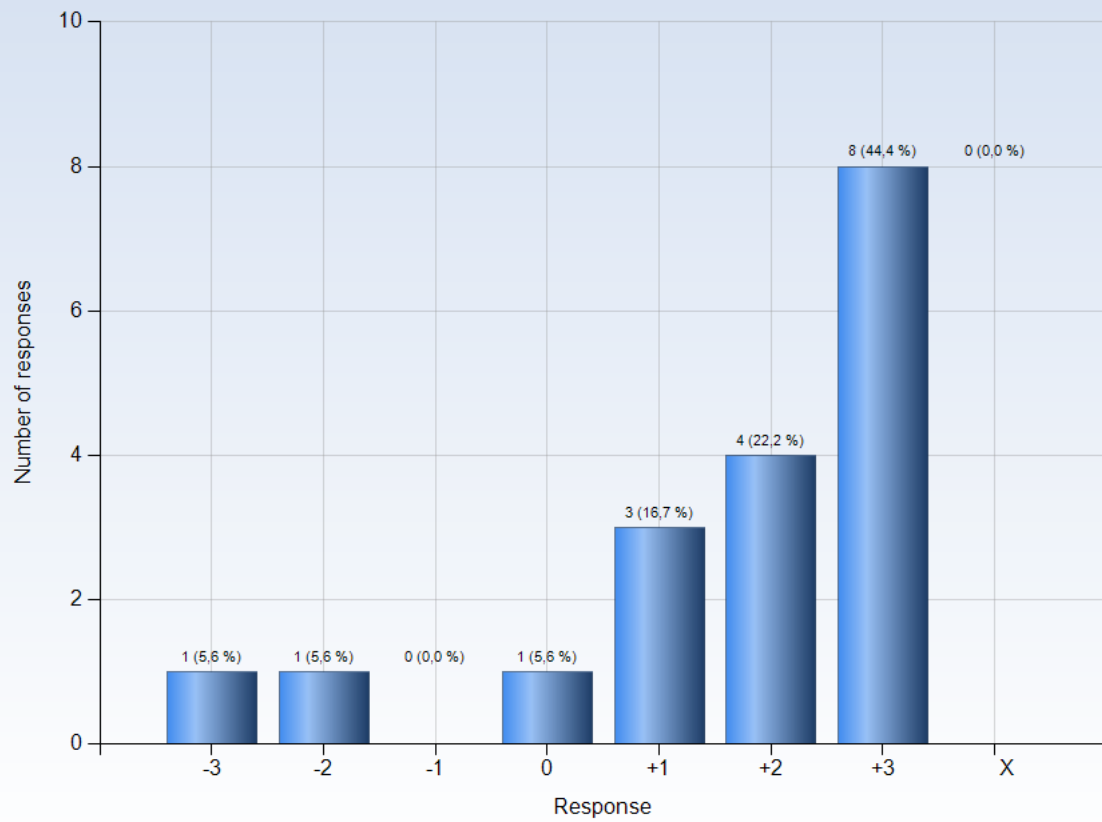
Comments

12. The course activities helped me to achieve the intended learning outcomes efficiently



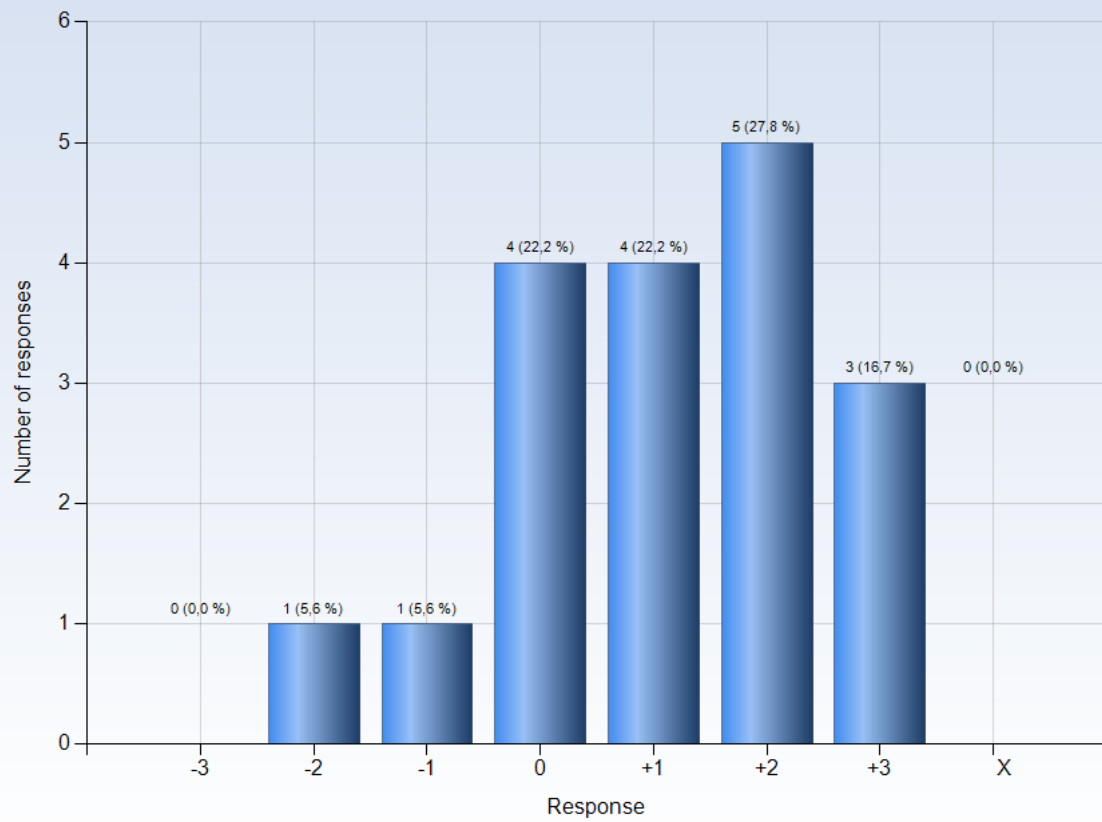
Comments

13. I understood what I was expected to learn in order to obtain a certain grade



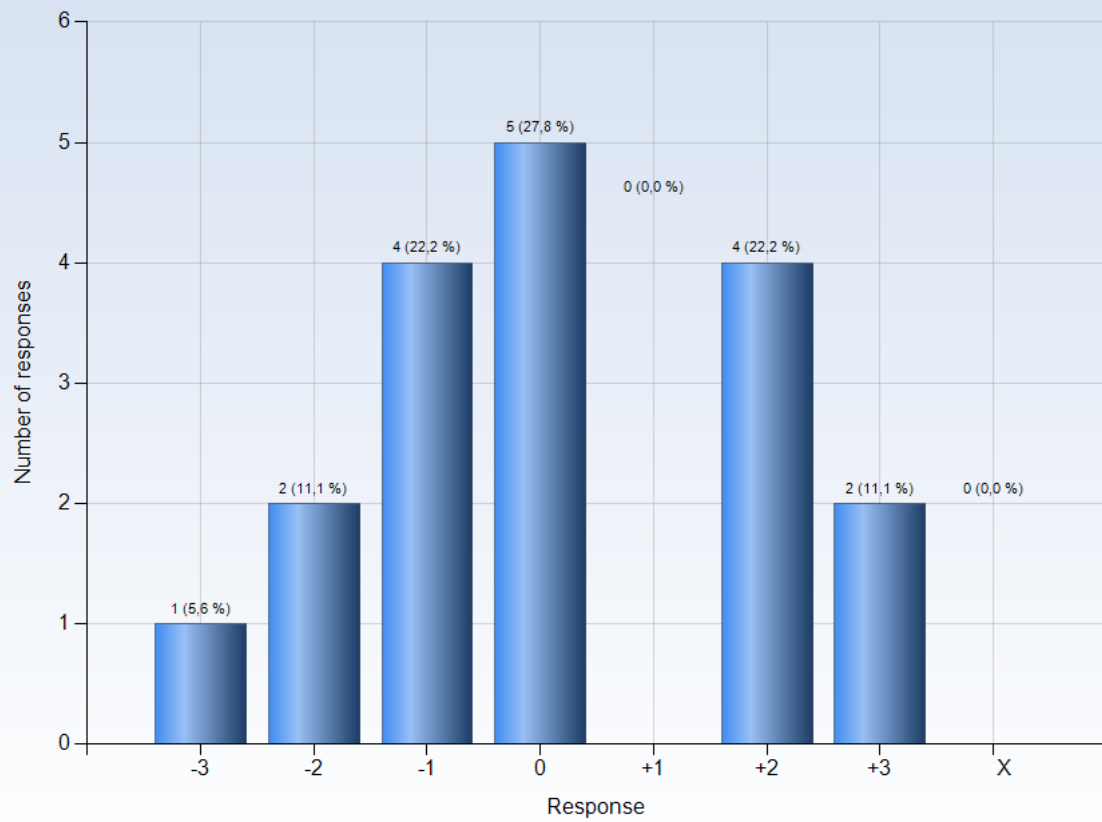
Comments

14. I received regular feedback that helped me to see my progress



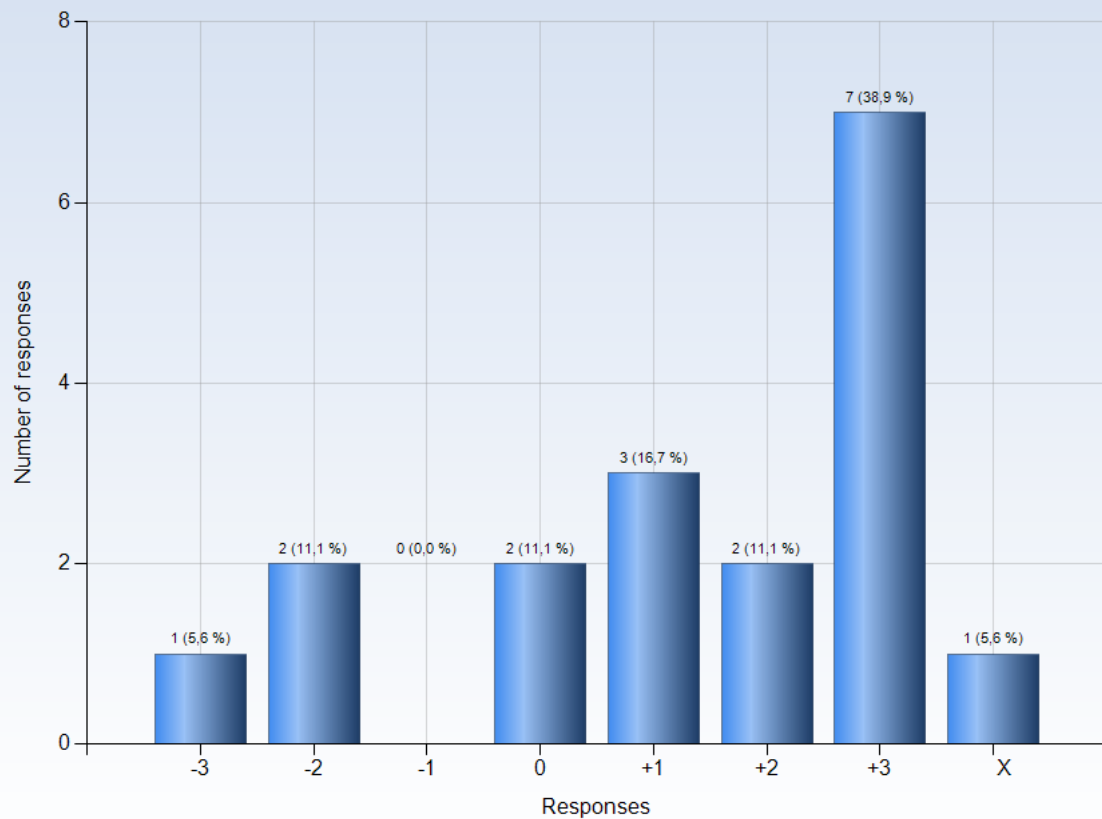
Comments

15. I could practice and receive feedback without being graded



Comments

16. The assessment on the course was fair and honest



Comments

Comments (My response was: +1)

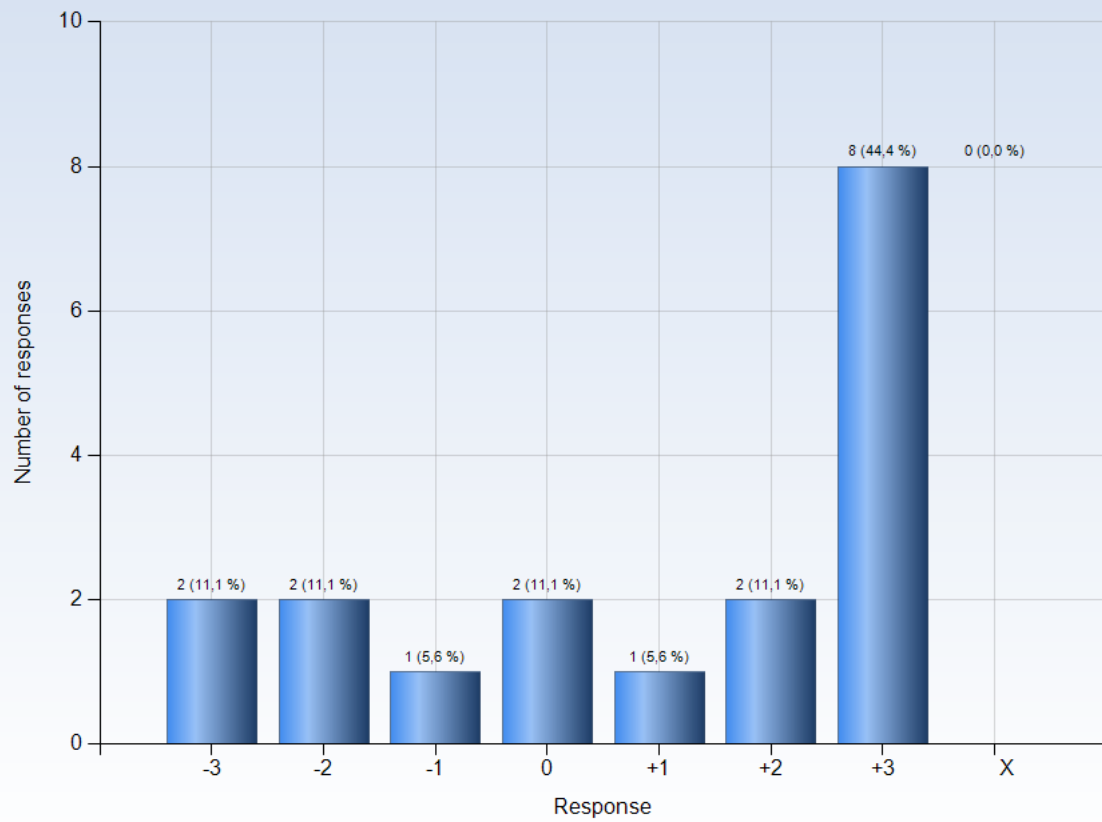
Self assessment answers of self assessment needs to be published to understand the solution

I think the grading system needs to be rescaled. By eliminating the scores for homeworks, getting 54 out of 60 to get A is very difficult and does not reflect our knowledge of CFD correctly. I mean 4-hour exam including 9 questions is always accompanied with minor mistakes. I personally believe it would be better if the homeworks and project were both graded and even more difficult but the minimum grade for getting A was somehow less. Now we should get 90 percents of all the possible scores (including bonus point) to get A. For me, as an international student looking for a second year scholarship, it is very important to get A. But I think the grading system is a little strict. I have never had these feelings during my previous courses at KTH and I always felt that if I try hard, there are some margins for minor mistakes and I could get A (and I got in all my previous courses). To sum up, I believe reconsidering grading system would let students be more relaxed and focus on learning the material of the course rather than thinking about their exam.

Comments (My response was: X)

Grades not reported yet

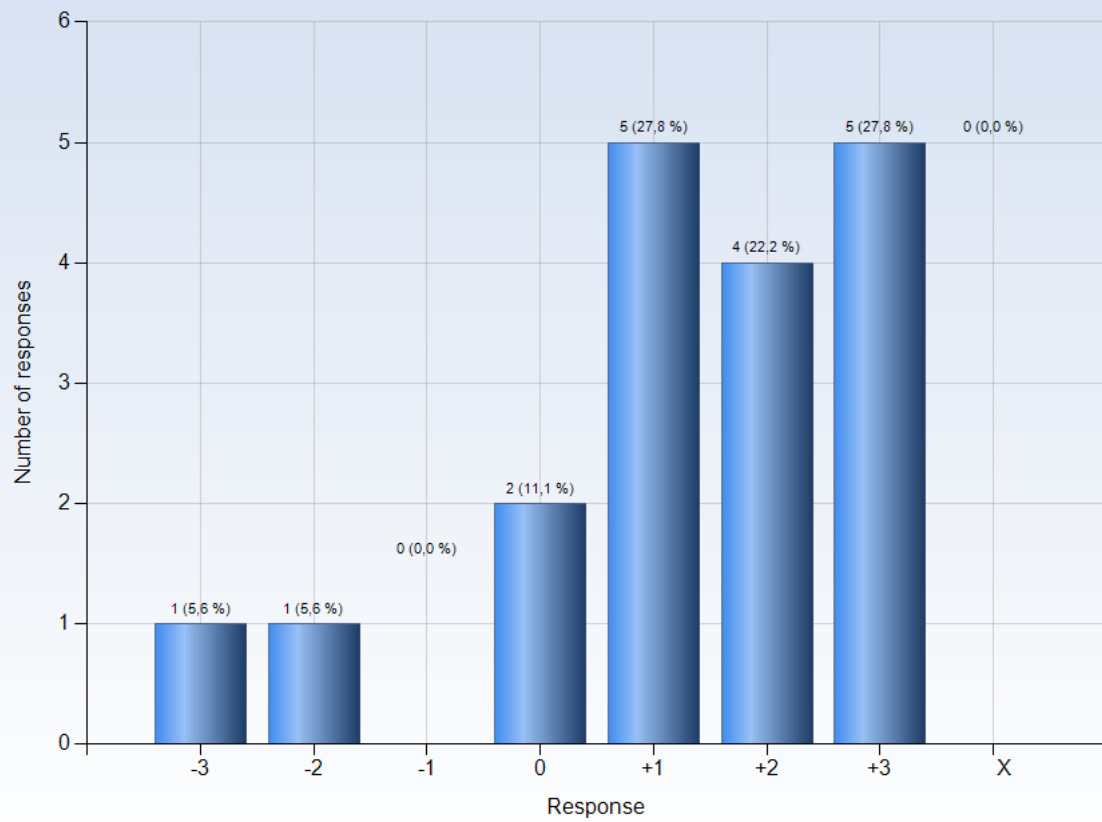
17. My background knowledge was sufficient to follow the course



Comments

Comments (My response was: -2)
Please mention Matlab as a prerequisite

18. I regularly spent time to reflect on what I learned

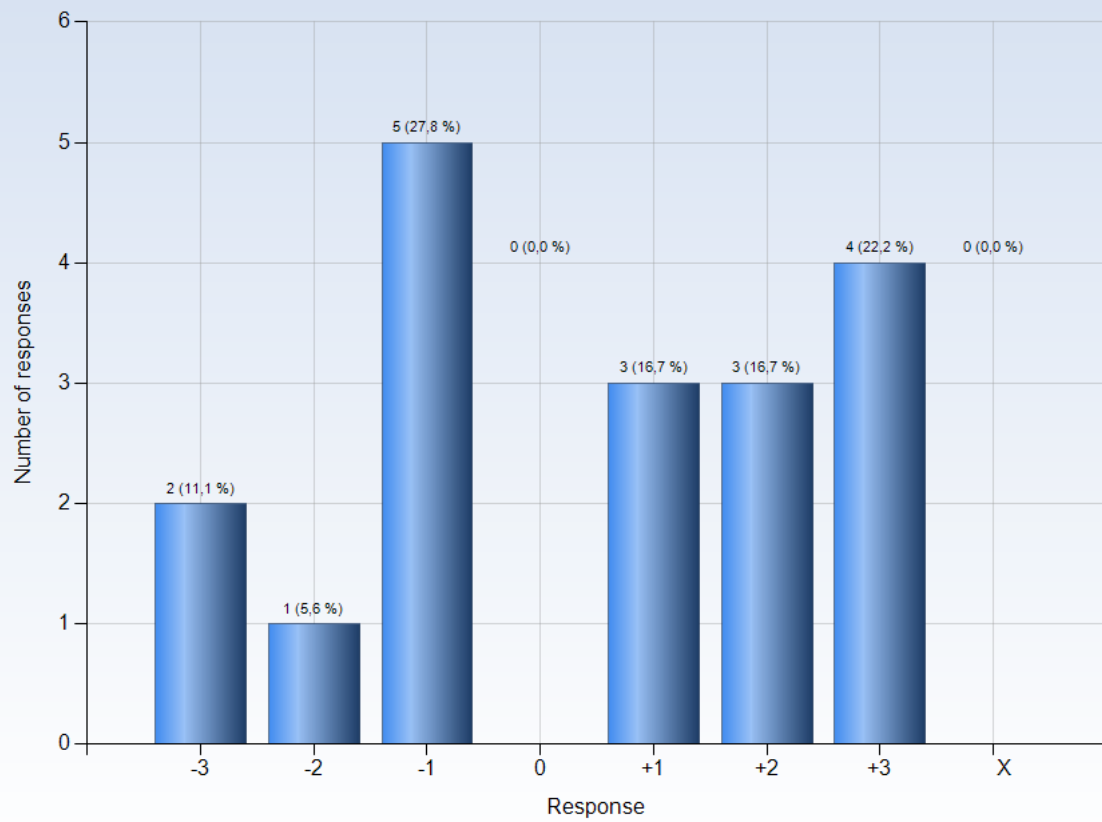


Comments

Comments (My response was: -3)

No time to do that

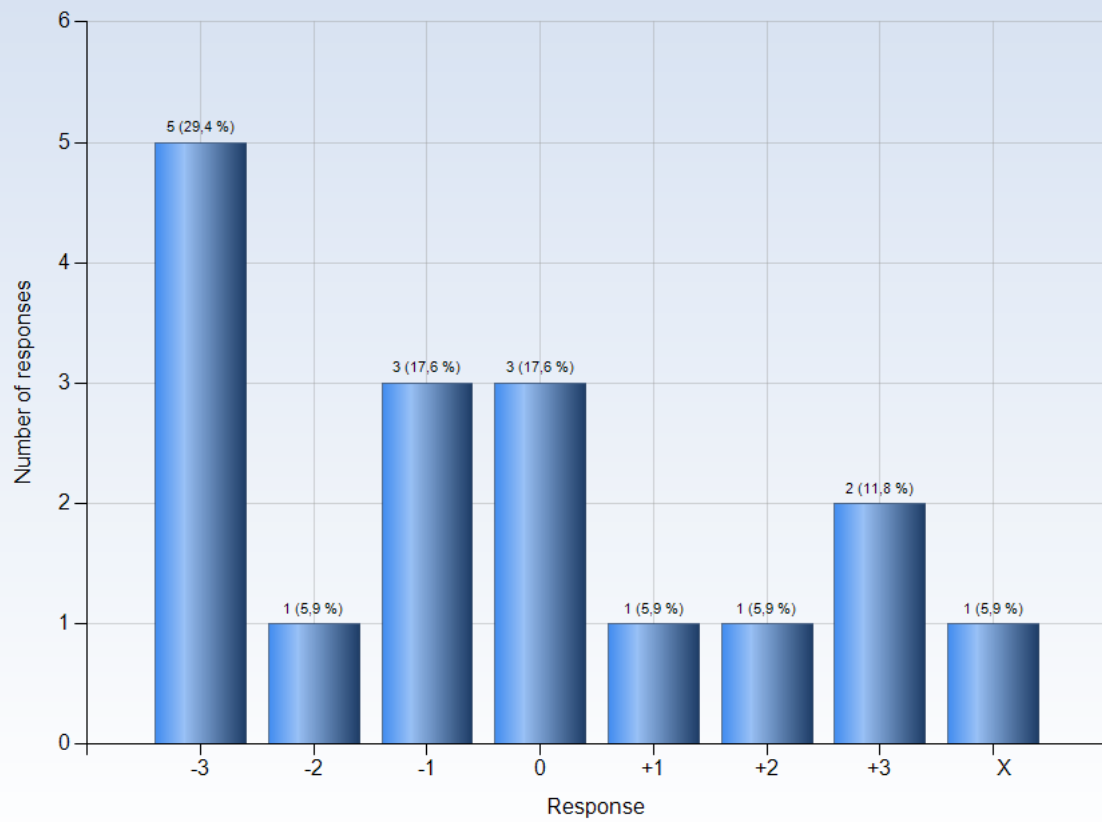
19. I was able to learn in a way that suited me



Comments

Comments (My response was: +1)
Expected more practical examples

20. I had opportunities to choose what to do

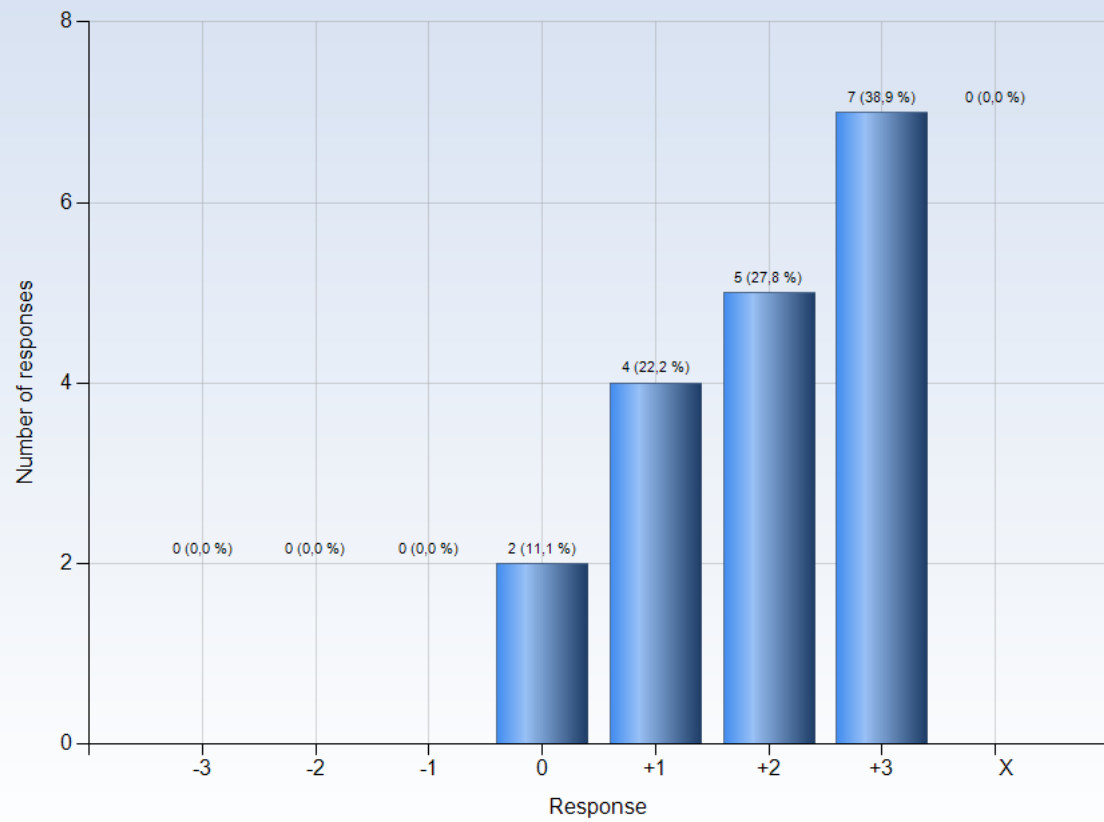


Comments

Comments (My response was: +1)

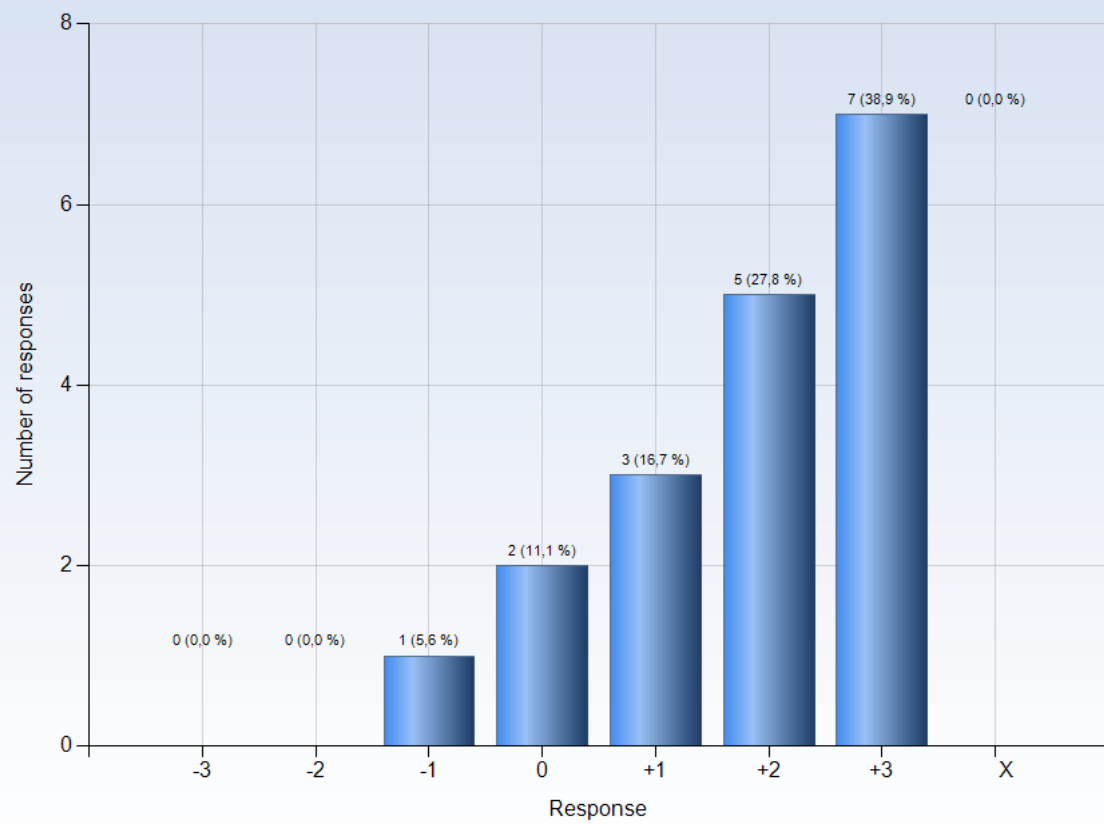
Usage of Lax Wendroff & gudonov mehod on simple problems like pipes would be really good

21. I was able to learn by collaborating and discussing with others



Comments

22. I was able to get support if I needed it



Comments