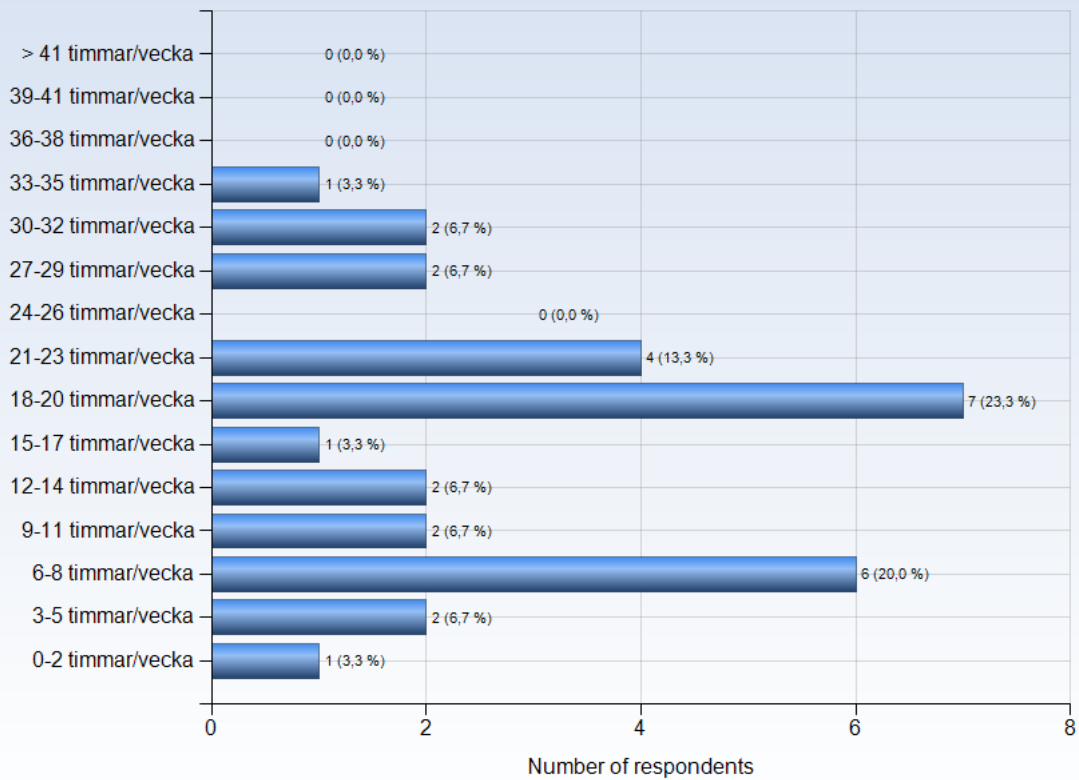# ID1019 - 2018-03-14

Antal respondenter: 122
Antal svar: 30
Svarsfrekvens: 24,59 %

ESTIMATED WORKLOAD

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

Category	Number of respondents
> 41 timmar/vecka	0 (0,0 %)
39-41 timmar/vecka	0 (0,0 %)
36-38 timmar/vecka	0 (0,0 %)
33-35 timmar/vecka	1 (3,3 %)
30-32 timmar/vecka	2 (6,7 %)
27-29 timmar/vecka	2 (6,7 %)
24-26 timmar/vecka	0 (0,0 %)
21-23 timmar/vecka	4 (13,3 %)
18-20 timmar/vecka	7 (23,3 %)
15-17 timmar/vecka	1 (3,3 %)
12-14 timmar/vecka	2 (6,7 %)
9-11 timmar/vecka	2 (6,7 %)
6-8 timmar/vecka	6 (20,0 %)
3-5 timmar/vecka	2 (6,7 %)
0-2 timmar/vecka	1 (3,3 %)

Number of respondents

Comments

Comments (I worked: 6-8 timmar/vecka)

I prioritized my other quite time demanding course which led to me not working much at all in this one.
I went to the lectures and listened carefully there, but did nothing in practice.
Jag la inte ner den tiden som behövdes då jag fokuserade på andra kurser.

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

The course I read in parallel took more time.

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:
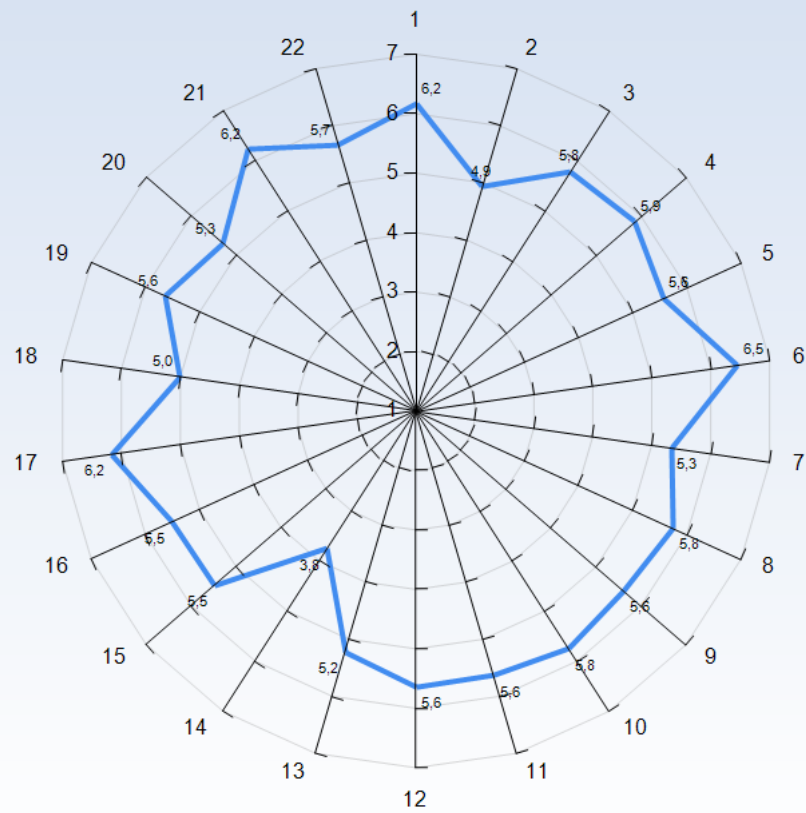
1 = No, I strongly disagree with the statement
4 = I am neutral to the statement
7 = Yes, I strongly agree with the statement

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.

Biggs J. & Tang, C. (2011). *Teaching for Quality Learning at University*, Chapter 6, pp. 95-110. Maidenhead: McGraw Hill.

Elmgren, M. & Henriksson, A-S. (2014). *Academic Teaching*, Chapter 3, pp. 57-72. Lund: Studentlitteratur.

Kember, K. & McNaught, C. (2007). *Enhancing University Teaching: Lessons from Research into Award-Winning Teachers*, Chapter 5, pp. 31-40. Abingdon: Routledge.

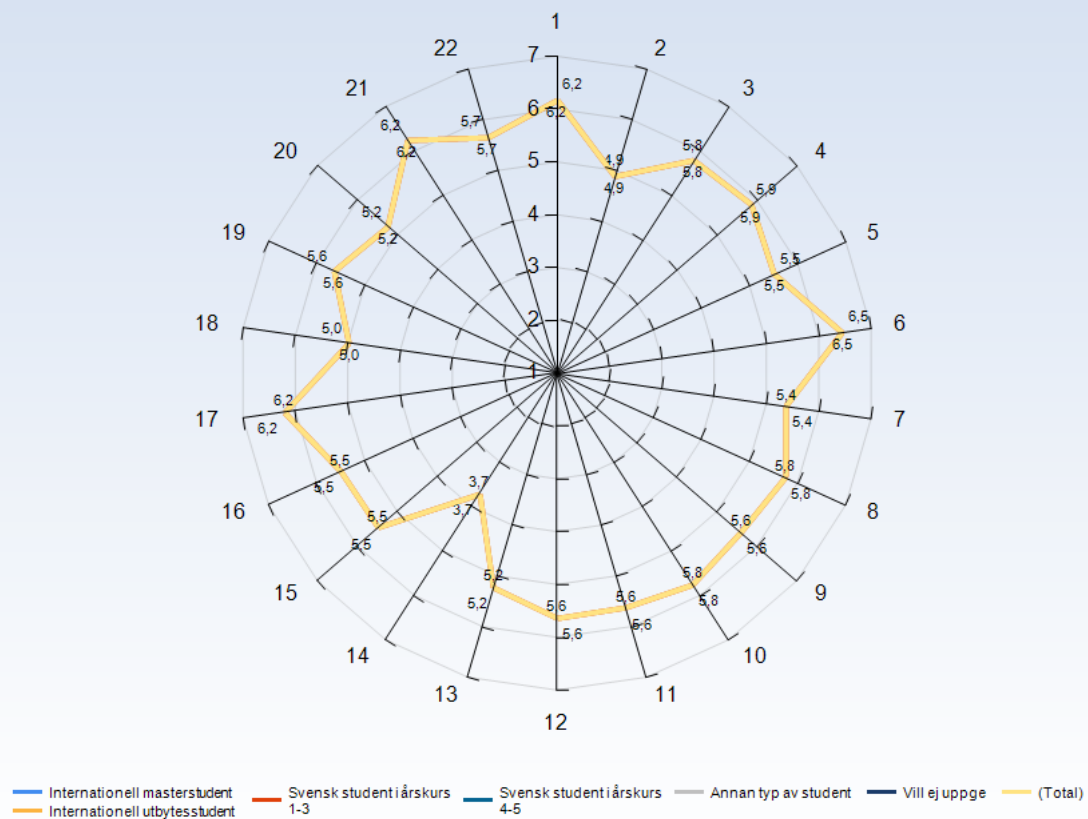Ramsden, P. (2003). *Learning to Teach in Higher Education*, Chapter 6, pp. 84-105. New York: RoutledgeFalmer.

Average response to LEQ statements - per gender

Legend: Kvinna — Man — Annat — Vill ej uppge — (Total)
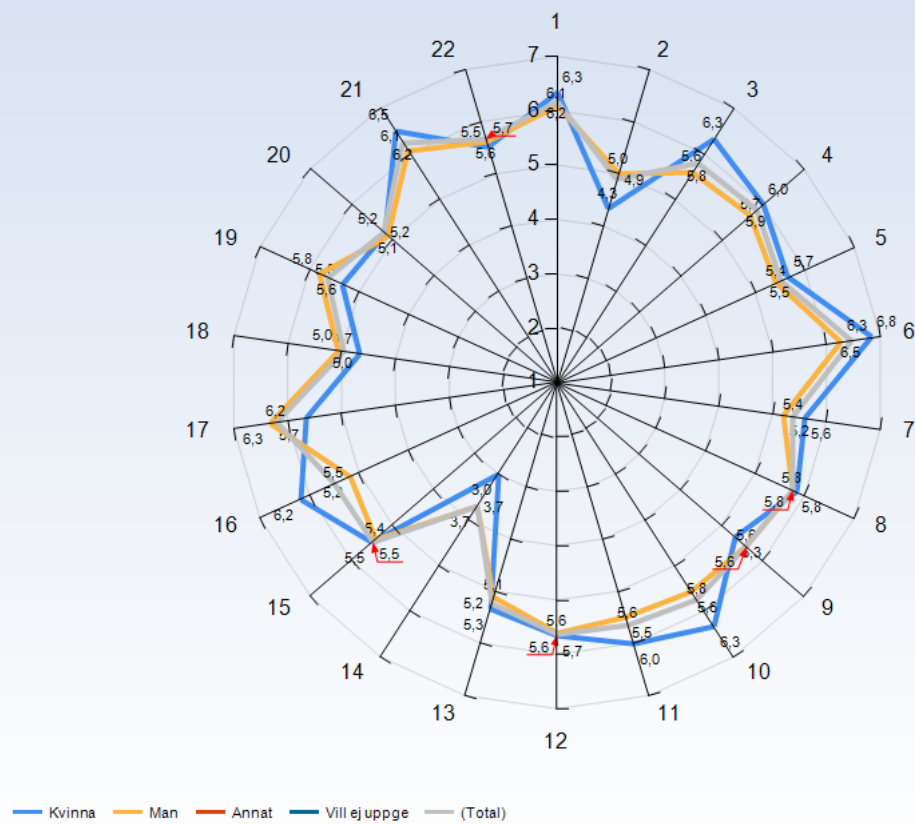
Comments

Comments (I am: Annat)

Male sociopath

Average response to LEQ statements - per type of student

Comments

What was the best aspect of the course?

What was the best aspect of the course? (I worked: 0-2 timmar/vecka)

MY HOMEBOY MONTELIUS FUNNIEST DUDE IN KTH, DONT WANNA TALK TRASH ON BROMAN. BUT HOW DAFUCK WAS NOT MONTELIUS NAMED BEST TEACHER WTF KTH GET YO SHIT TOGHETER.

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

Johan, superbra lärare

Not a big workload

What was the best aspect of the course? (I worked: 6-8 timmar/vecka)

The lecturer

Johan

The teacher by far. Entertaining, engaging and knowledgeable. Best teacher I have had.

Att läraren inkluderade oss i föreläsningarna med frågor och inte accepterade att för få svarade. Alla svar var bra även dem som var felaktiga och dem var accepterade.

Seeing the code being used in "advanced" applications.

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

Very good lectures, super enthusiastic professor.

Teacher was extremely engaging.

What was the best aspect of the course? (I worked: 12-14 timmar/vecka)

Språket vi lärde oss

I really enjoyed the lectures! Johan is an awesome lecturer with deep knowledge of the subject.

What was the best aspect of the course? (I worked: 15-17 timmar/vecka)

Bra föreläsningar, har lätt för att somna till om de är för montona men här höll jag mig oftast vaken! Gillar live-codeing och att det "händer" lite.

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

A good teacher

I liked how the seminar assignments are based on well established examples and models.

Lärarens engagemang och ämnet/kursinnehållet.

Programmering är kul och jag fann mycket i kursen intressant

I thought the topics covered on the seminars were interesting which really motivated me to do them.

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

Att det inte fanns några examinerande moment under kursens gång var riktigt bra, om man tog eget ansvar och följde med på seminarium och övningar så var examinationen inga problem. För mig gjorde det mig mer nyfiken, jag ville självmant utveckla mina kunskaper inom området. Det finns så många kurser där man går på seminarium för att få en liten fördel på kommande tenta, men man glömmer då lätt bort syftet med seminariet.

I den här kursen gick man på seminarium och övningar utav intresse!

The teachers knowledge

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

Att kursen var väldigt fri.

Bra kurs, intressanta föreläsningar.

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

Bra lärare, kul föreläsningar. Jag tyckte att jag lärde mig ganska mycket hur man programmerar i Elixir med mönstermatchning mm.

The ability to work freely with the course material without deadlines

What would you suggest to improve?

What would you suggest to improve? (I worked: 0-2 timmar/vecka)
Bro keep being you, maybe more soundeffects those was litty

What would you suggest to improve? (I worked: 3-5 timmar/vecka)
Lärandet av semantik och regler utanför föreläsningar. Tex en videoföreläsning om ämnet eller ett kapitel i en bok.
Better Powerpoints, more focused teacher

What would you suggest to improve? (I worked: 6-8 timmar/vecka)
The seminars should award bonus but also then of course be different to justify bonus
Kanske att man har någon sorts kunskapskontroll där man ska lämna in något jobb för att få feedback. För att tvinga elever att jobba under tiden att kursen går. Hade jag haft mer press hade jag kanske försökt hinna med denna kurs lite bättre.
There weren't any labs or any homework only seminars with advanced tasks. They were too advanced for anyone to complete them without prior experience in functional programming. This meant that people just copied code from github and combined with that there were no tasks to hand in nobody really understood the code.

What would you suggest to improve? (I worked: 9-11 timmar/vecka)
The lecture slides on their own were very unhelpful. They are filled with rhetorical questions that the professor would answer during lectures, but on the slides alone they just leave you confused. If I missed a lecture, wanted to recap, or study for the exam it was a bit hard to find information.

What would you suggest to improve? (I worked: 12-14 timmar/vecka)
Det var svårt att koppla föreläsningarna med seminarierna. Uppgiften kring evaluering av uttryck var svår på tentan relativt till tidigare år. Det vore bra om det fanns några övningar kring detta med svar. Pdf:n och föreläsningsanteckningarna gav inte jättemycket kring detta.
The slides aren't very easy to go back and repeat with. A more detailed version of the slides would help

What would you suggest to improve? (I worked: 15-17 timmar/vecka)
Lite mer övning/handlednings-tillfälle inför seminarierna. Assistenterna var mycket bra på övningarna och genomgången inför tentan!

What would you suggest to improve? (I worked: 18-20 timmar/vecka)
More help with elixir
I would've liked some more suggested external links for each lecture besides the Elixir library.
Make the seminars mandatory to complete the course by having course credits (högskolepoäng) by completing them.
Skulle gärna se att seminarierna var obligatoriska och kunde ge delpoäng till tentan eller var en del av examinationen/ger högskolepoäng
Det blev en del sidospår och kuriosa på föreläsningarna, ibland skenar det iväg och blir för avancerat för att det ska gå att följa. Detta visade sig oftast inte ingå i kursen, det kan vara intressant men en förvarning innan vore bra. Det var först när jag gjorde ex-tentor som jag insåg vilket som var kursens nivå. Kursens seminarier och uppgifter varierade kraftigt i svårighetsgrad, från att vara väldigt överkomligt till att vara väldigt svårt. Meta-interpretor kom in för tidigt i kursen
There was a lack of reading material, making it difficult to study on your own.

What would you suggest to improve? (I worked: 21-23 timmar/vecka)
Pass
Theres a bit of a gap between what we do on the course and on the exam. Not many situations were for example heaps were implemented during the course, but there was a large focus on that on the exam.

What would you suggest to improve? (I worked: 27-29 timmar/vecka)
Det ska vara tydligare krav. Jag tyckte det var väldigt svårt att förstå vad som förväntades av mig. Det fanns gott om övningar för programmering, men det saknades för t.ex. landa-calculus.
Många tentors frågor är otydliga, tex årets tenta hade flera heap-frågor som var förvisso bra men beskrivningen förklarade inte tillräckligt noggrant vad funktionerna faktiskt skulle göra. En liten simpel bild skulle ha hjälpt mycket.

What would you suggest to improve? (I worked: 30-32 timmar/vecka)
Lite oklart vad man skulle kunna inför tentan, det hade varit bra med lite mer underlag för de teoretiska bitarna med Envorviorment och lambdakalkyl.
While it's understandable that the course was not perfectly prepared due to transition from Erlang to Elixir, the pdf's that are central to the course (seminars, exercises etc.) would benefit a lot from thorough proof-reading. In particular, fixing lingering Erlang syntax, correcting grammar/syntax errors in English and making sure that the suggested code tests clearly display the input and the expected output. Surely, there are students who would volunteer to assist with proof-reading before next year's course round if necessary.

What advice would you like to give to future participants?

What advice would you like to give to future participants? (I worked: 0-2 timmar/vecka)
dont skip them seminars fam

What advice would you like to give to future participants? (I worked: 6-8 timmar/vecka)
Go to all lectures, do the seminar tasks
Attend the lectures
Start doing practical thing quickly. Such as the seminars.
Gör seminarierna och helst innan seminarietillfället.

What advice would you like to give to future participants? (I worked: 9-11 timmar/vecka)
Go to the lectures.
Don't miss any lectures.

What advice would you like to give to future participants? (I worked: 12-14 timmar/vecka)
Gör seminarierna och introduktionsövningarna.
Do the seminars!

What advice would you like to give to future participants? (I worked: 15-17 timmar/vecka)
Kör seminarierna, hinner du inte hela kör så långt du kan i alla fall! Läs boken, den är mycket lättförstådd med bra exempel.

What advice would you like to give to future participants? (I worked: 18-20 timmar/vecka)
Go to the lectures and seminars. Try to keep up.
Attend the lectures, seminars, work with their material and other material provided and look at old exams.
Gör övningarna och seminarierna

What advice would you like to give to future participants? (I worked: 21-23 timmar/vecka)
Gå på alla föreläsningar, gör alla seminarium och övningar. Gör uppgifterna individuellt och se till att verkligen förstå, Johans PDF för varje uppgift är riktigt bra och roliga, dem hjälper en ta sig vidare om man fastnat.

Ps. Bli inte så rädda för lambda kalkyl i början av kursen, det är ganska enkelt när man väl kommit in i kursen.
Start early and to all the exercises

What advice would you like to give to future participants? (I worked: 27-29 timmar/vecka)
programmera mycket. Lägg inte ner för mycket tid på seminarium, utan kolla på gamla tentor och gör de uppgifterna. Lek runt med dom uppgifterna och gör egna program.
Plugga mycket, redan från dag 1. Gör seminarie uppgifterna.

What advice would you like to give to future participants? (I worked: 30-32 timmar/vecka)
Plugga, programmera och fråga.
Do coding from the start and work with exercises (both from lectures, e.g. lambda/semantics AND from the exercises section on KTH Social) parallel to the seminars. A lot of the exercises will provide you with a really good foundation for the seminars, making them a whole lot easier and more understandable. Also make sure that you either remember or review all the different data structures that are central to the algorithms and data structures course.

Is there anything else you would like to add?

Is there anything else you would like to add? (I worked: 0-2 timmar/vecka)

ses på omtentan :)

Is there anything else you would like to add? (I worked: 6-8 timmar/vecka)

I don't know regarding every part of the exam. But all latter questions were built on a Heap task. And if you didn't specifically know much about heaps, you could not continue, even though the course isn't on heaps.

Please make tasks to hand in at a reasonable level so we get a chance to get feedback and actually learn functional programming properly.

The lectures were very entertaining and you could tell Johan tried his best to teach us everything but the course went from 0 -100 before the first seminar and we didn't stand a chance.

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

I don't like that the exams have many questions that are based on each other. In this exam for example, there were like 6 questions about the same heap, and I didn't have a good understanding of a heap to begin with and it is not really part of this course.

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

Bra och rolig kurs!!

Is there anything else you would like to add? (I worked: 21-23 timmar/vecka)

Stort tack till dig Johan, du har skapat en riktigt bra kurs! Föreläsningar, kurssida, information, ja allt var av högsta kvalité!

Is there anything else you would like to add? (I worked: 27-29 timmar/vecka)

Utöver tentan så var kursen riktigt bra.

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

Huffman coding kanske var lite köttig att börja med. Jag hade svårt att greppa hur trädet var uppbyggt med tupler. Jag skulle nog vilja ha den som ett senare seminarie.

It's debatable, but I think that the BNF-part of the course (particularly the lecture) ought to be moved to a later point. In order to understand the content of it, it is important to have a decently detailed abstract concept of what all the data structures etc. are, and more importantly, at least a little bit more practical experience using it in coding than a week or so of basic exercises.

SPECIFIC QUESTIONS

The diagrams below show the detailed response to the LEQ statements. The response scale is defined by:
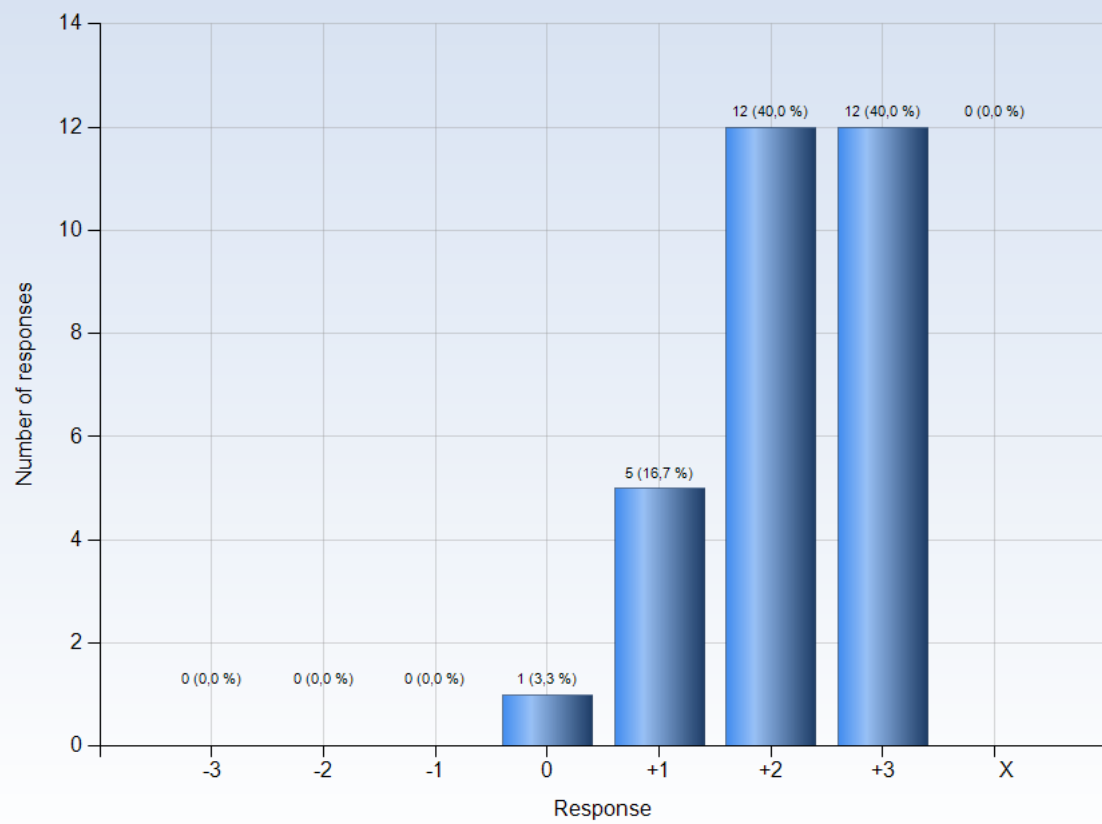
-3 = No, I strongly disagree with the statement
0 = I am neutral to the statement
+3 = Yes, I strongly agree with the statement

X = I decline to take a position on the statement
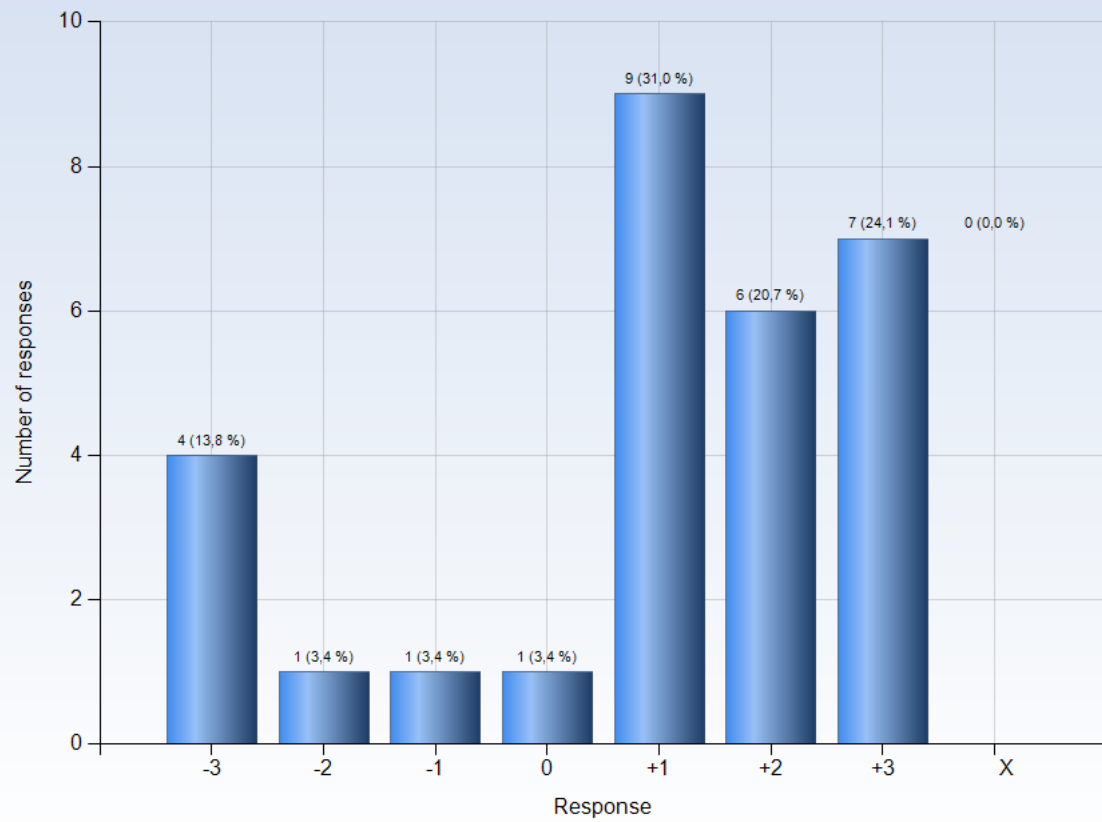
1. I worked with interesting issues

Number of responses

Response	Count
-3	0 (0,0 %)
-2	0 (0,0 %)
-1	0 (0,0 %)
0	1 (3,3 %)
+1	5 (16,7 %)
+2	12 (40,0 %)
+3	12 (40,0 %)
X	0 (0,0 %)

Comments

Comments (My response was: +3)
Really liked the ray tracer

2. I explored parts of the subject on my own

Number of responses

- -3: 4 (13,8 %)
- -2: 1 (3,4 %)
- -1: 1 (3,4 %)
- 0: 1 (3,4 %)
- +1: 9 (31,0 %)
- +2: 6 (20,7 %)
- +3: 7 (24,1 %)
- X: 0 (0,0 %)

Response

Comments

Comments (My response was: +3)

Thought elixir was super fun and the course increased my intresset for functional programming

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

Number of responses vs Response

- -3: 1 (3,4 %)
- -2: 1 (3,4 %)
- -1: 1 (3,4 %)
- 0: 0 (0,0 %)
- +1: 7 (24,1 %)
- +2: 5 (17,2 %)
- +3: 13 (44,8 %)
- X: 1 (3,4 %)
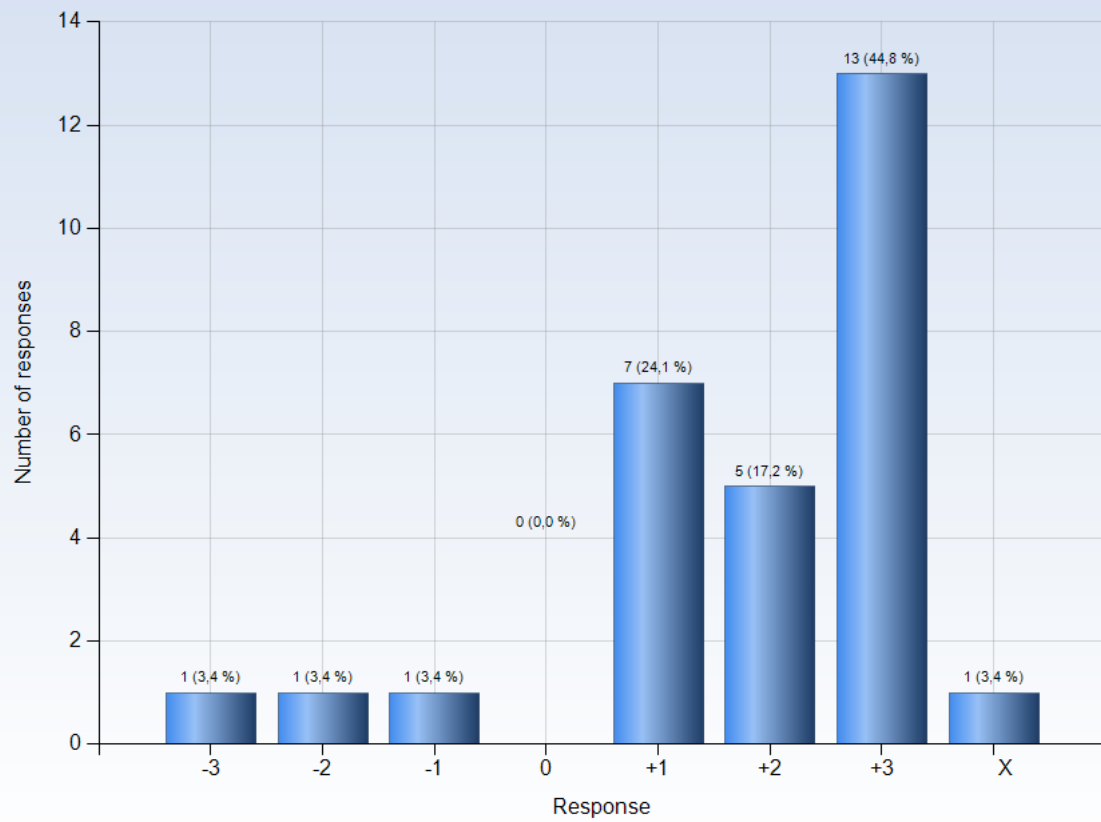
Comments

4. The course was challenging in a stimulating way
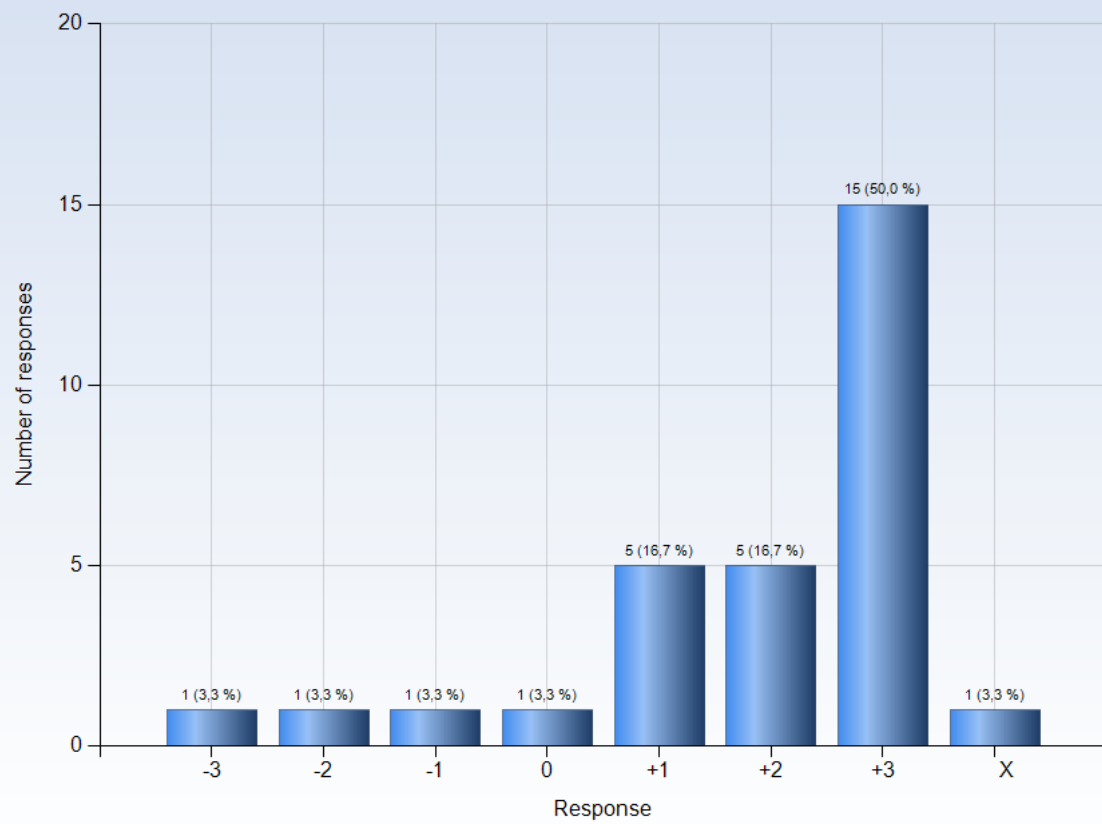
Comments

Comments (My response was: -3)
Couldn't do any seminar assigment

Comments (My response was: +3)
Lots of new things to learn but without being to hard

5. I felt togetherness with others on the course
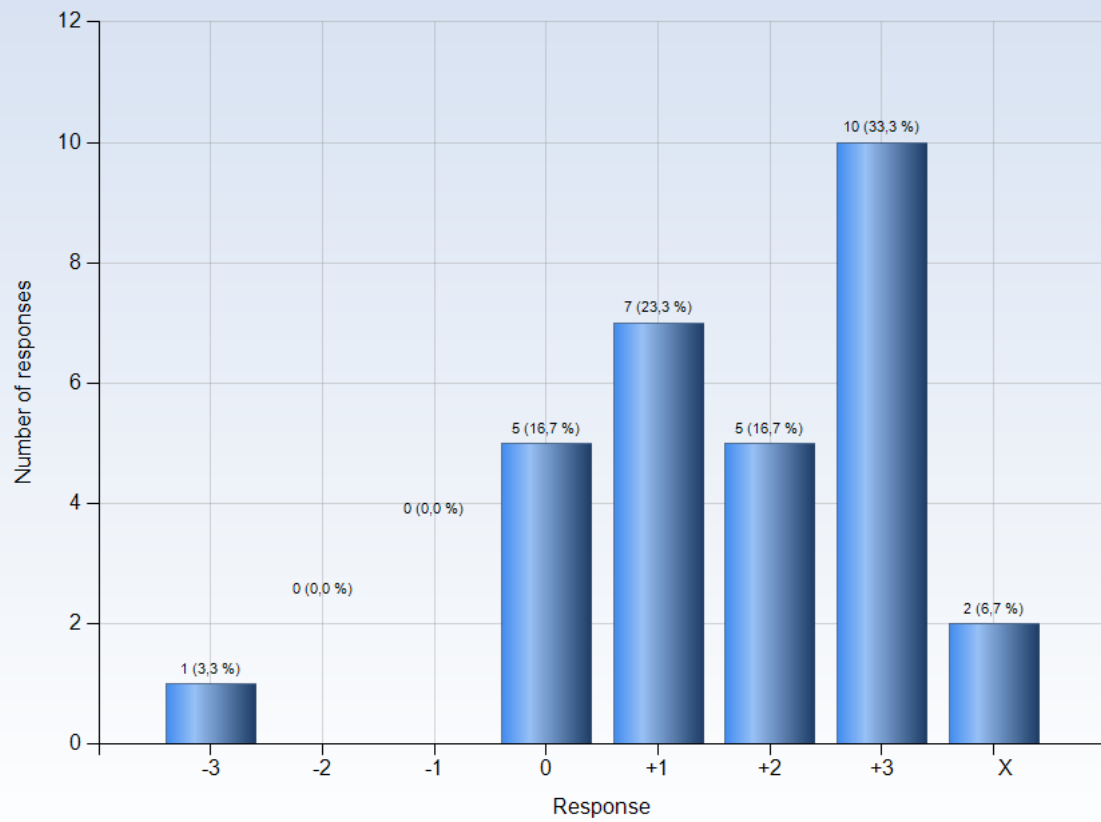
Comments

6. The atmosphere on the course was open and inclusive
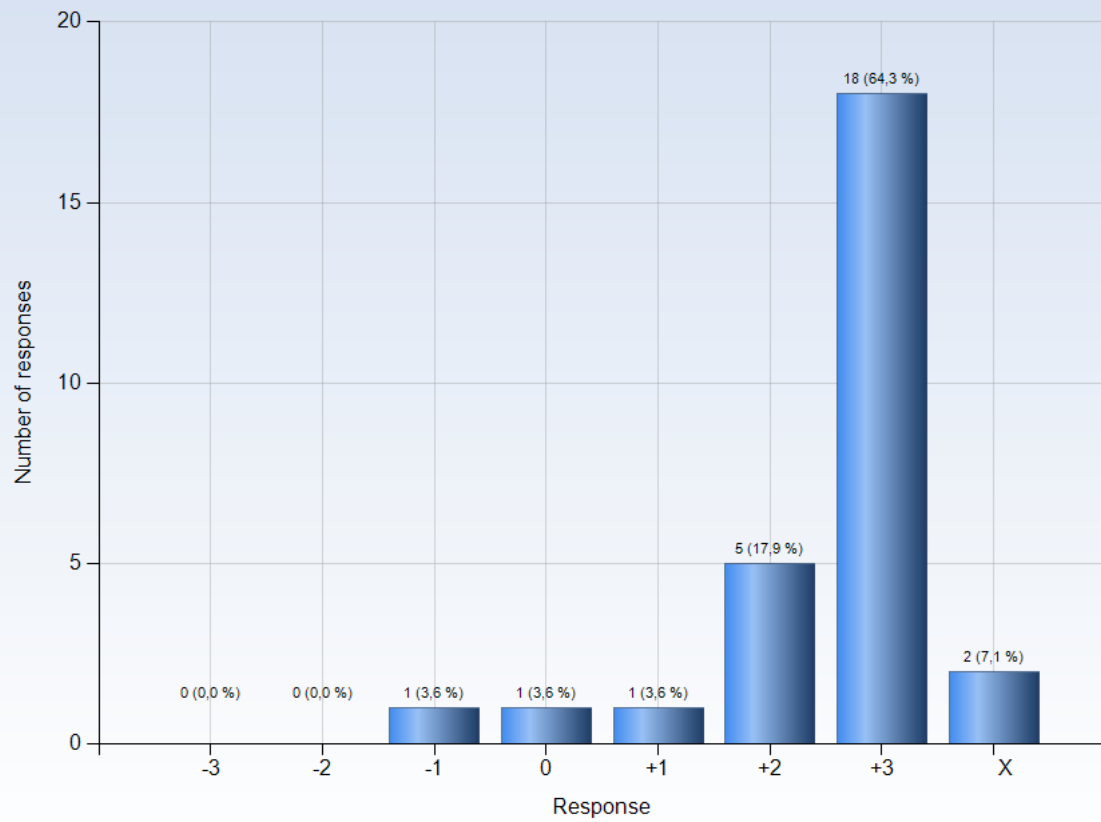
Comments

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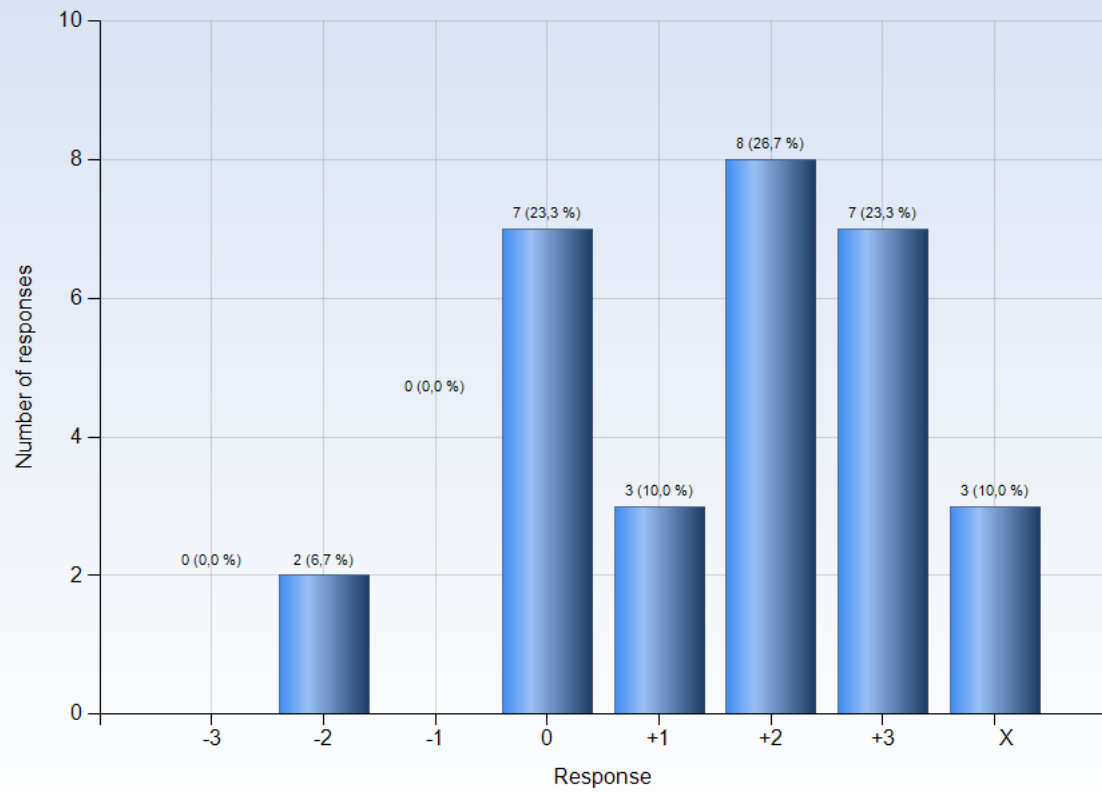
Comments

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

Number of responses (y-axis): 0, 2, 4, 6, 8, 10, 12, 14

Response	Count
-3	1 (3,4 %)
-2	2 (6,9 %)
-1	1 (3,4 %)
0	0 (0,0 %)
+1	4 (13,8 %)
+2	8 (27,6 %)
+3	13 (44,8 %)
X	0 (0,0 %)
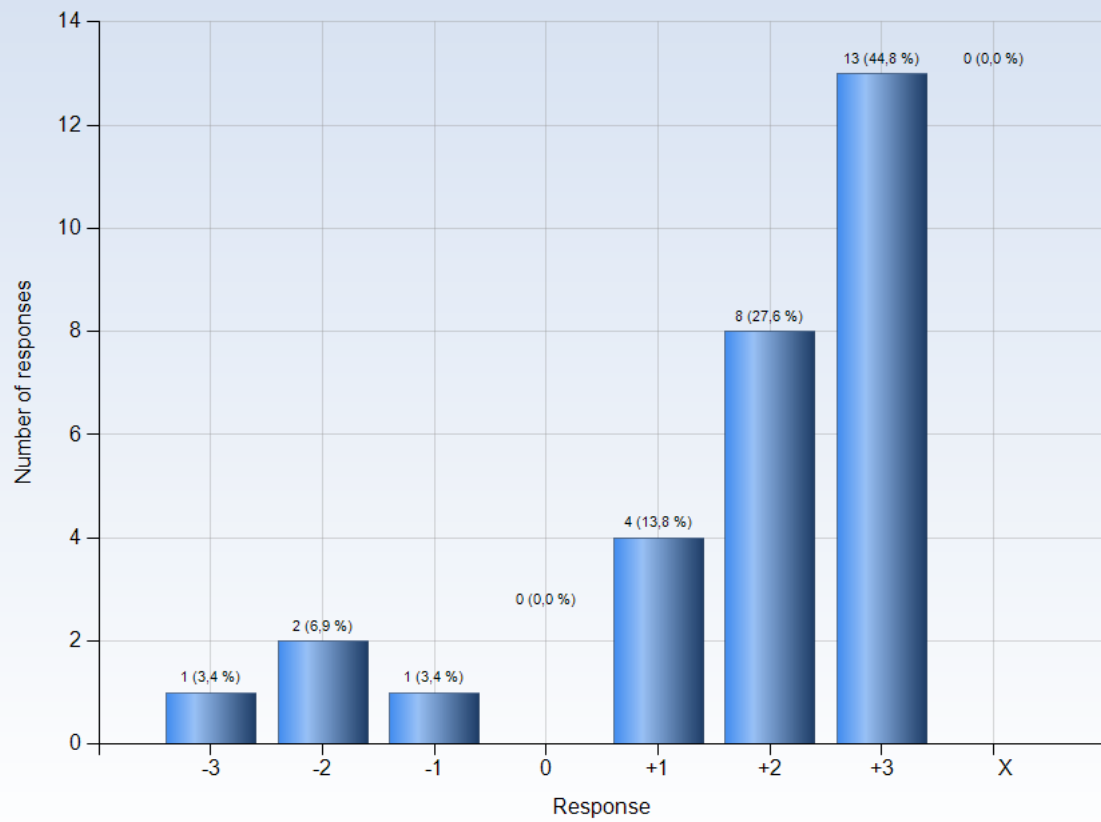
Comments

Comments (My response was: -1)

Återigen var det oklart om man skulle prioritera övningarna eller seminarierna

Comments (My response was: +3)

Very well organized course page!

9. I understood what the teachers were talking about
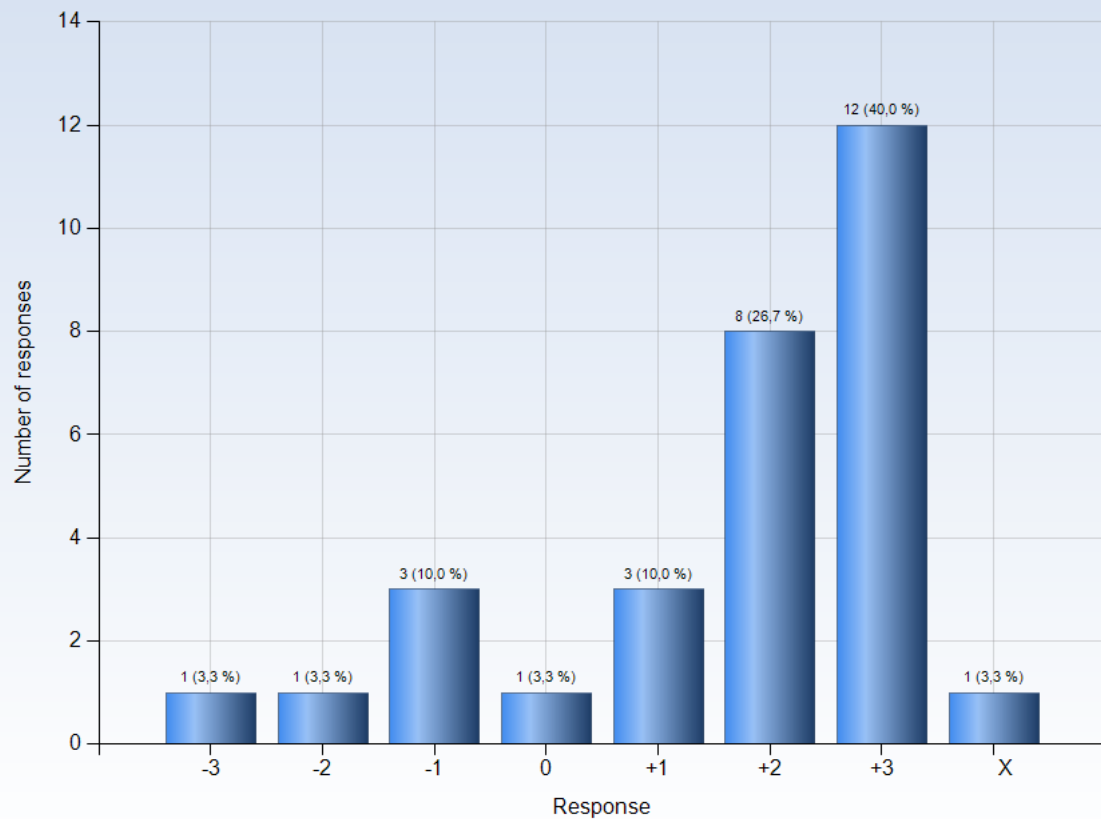
Comments

Comments (My response was: -3)
Teacher more focused on being funny than teaching

Comments (My response was: +2)
ända undantaget: operationella semantiken
Ibland var det lite svårt att hänga med speciellt kring evaluering av uttryck då det vore bra att först ha en genomgång av bnf-notationer. Man kunde dock läst på om detta i förväg själv.

Comments (My response was: +3)
Very, very good lecturer!

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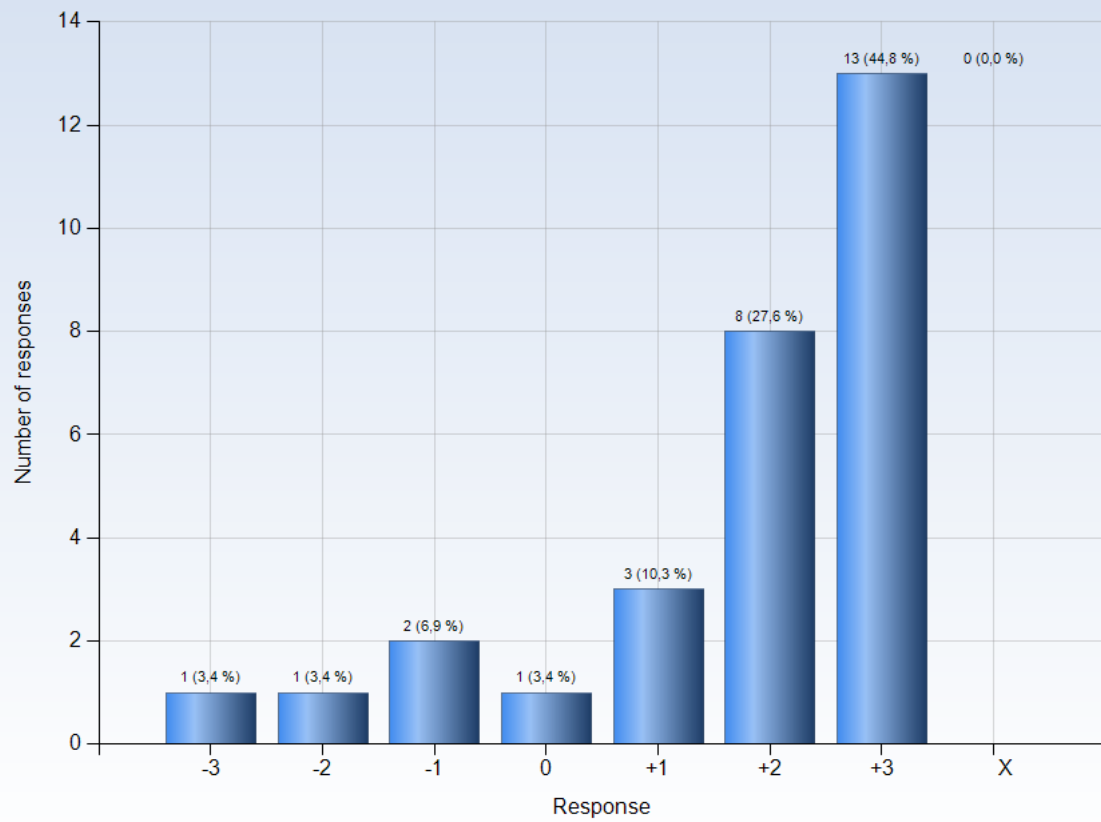
Comments

Comments (My response was: -3)

saknades övningsuppgifter till landa-calculus, evalueringsproblem. Man måste kunna öva på nånting för att kunna förstå det helt. Att endast få ett papper med teori gör det svårt att verkligen förstå. Nån typ av övningsblad till nästa år vore toppen :)

11. Understanding of key concepts had high priority
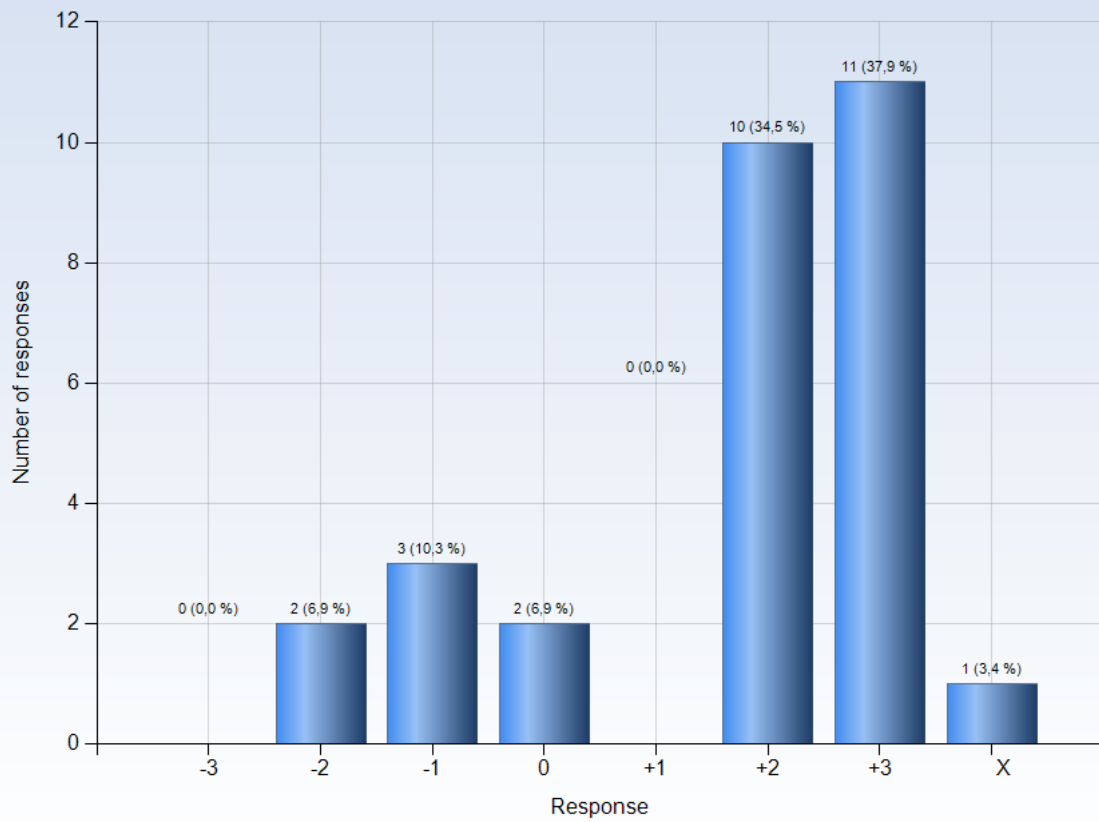
Comments

Comments (My response was: 0)

Jag hade önskat mer genomgång av lambdakalkyl och syntaxen kring det.

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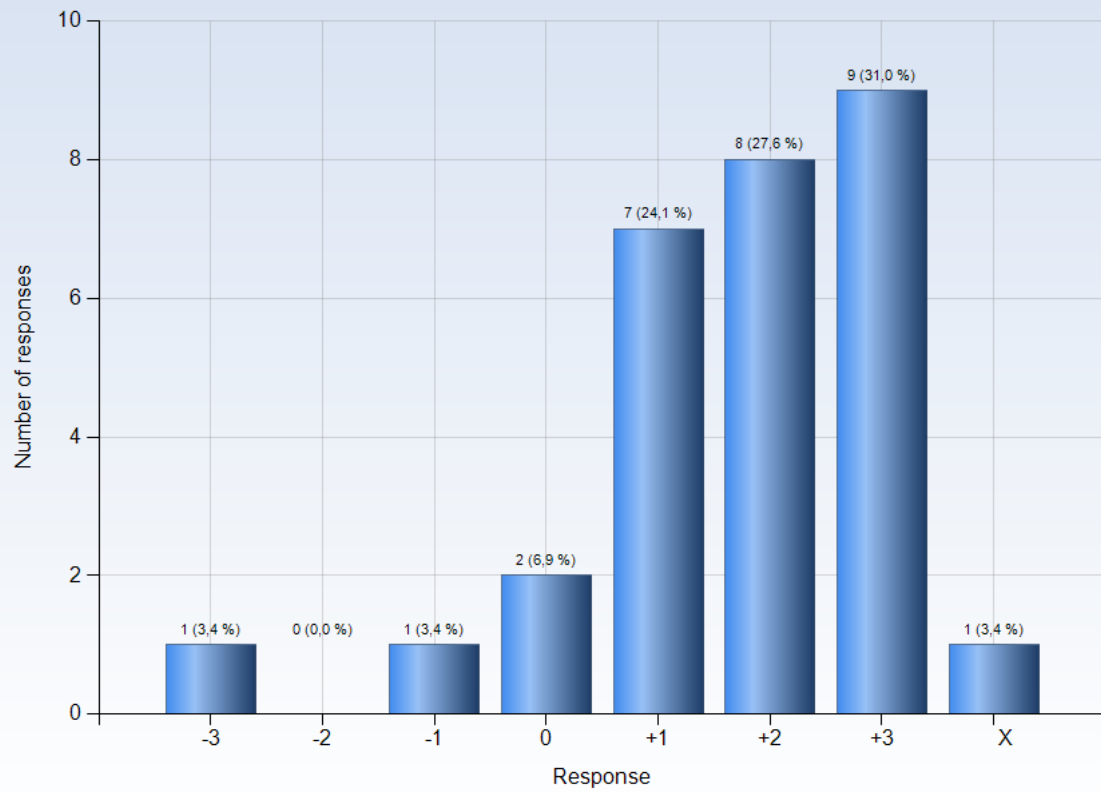
Comments

(My response was: +2)

Dem hade gjort det om jag hade genomfört dem.

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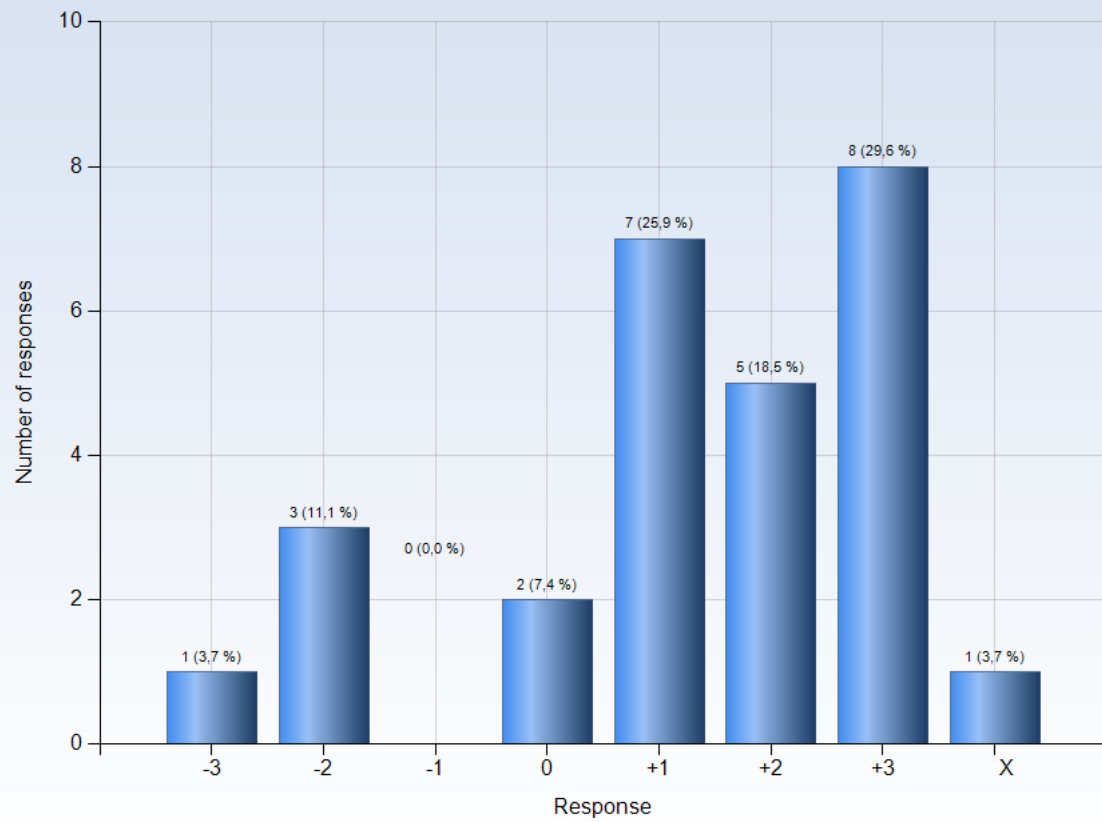
Comments

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

Number of responses

- 3 (10,0 %) at -3
- 4 (13,3 %) at -2
- 5 (16,7 %) at -1
- 7 (23,3 %) at 0
- 7 (23,3 %) at +1
- 1 (3,3 %) at +2
- 2 (6,7 %) at +3
- 1 (3,3 %) at X
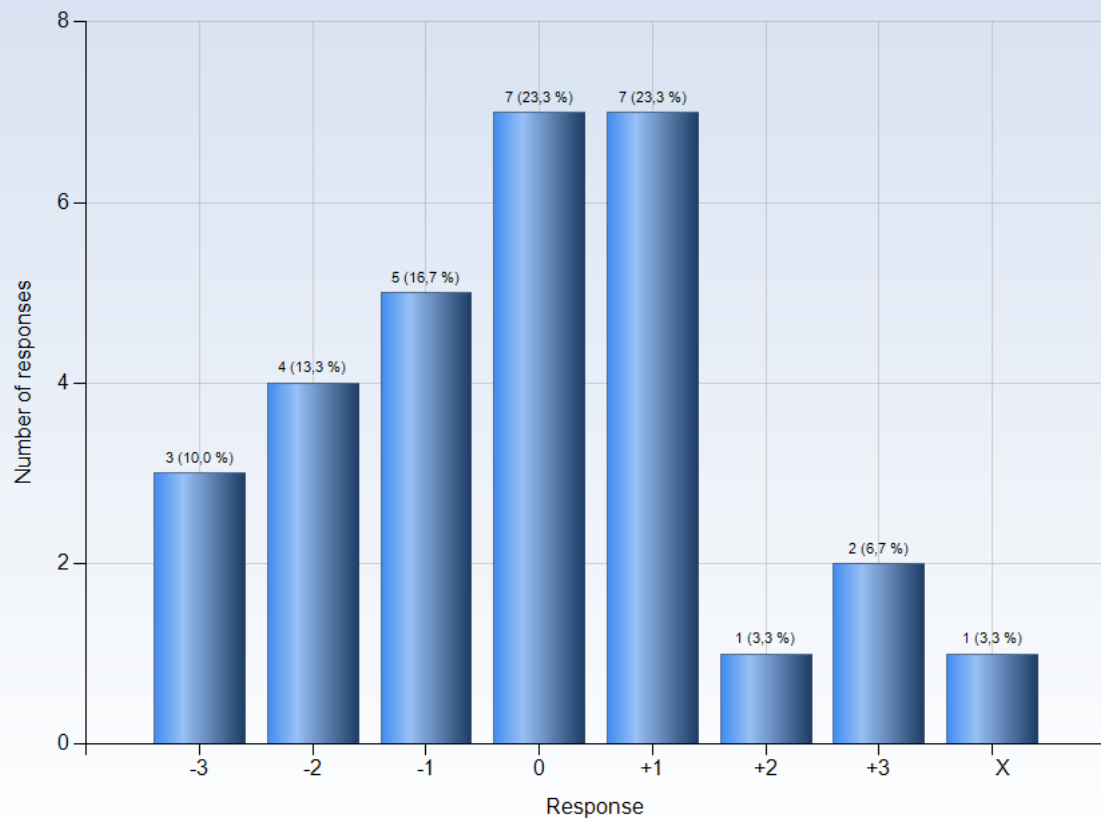
Response

Comments

Comments (My response was: +1)

formatet för seminarierna var väldigt bra även om svårigheten på uppgifterna varierade något. metaintrepetatorn...

The .pdf's could contain more accurate tests for each part of the code

15. I could practice and receive feedback without being graded
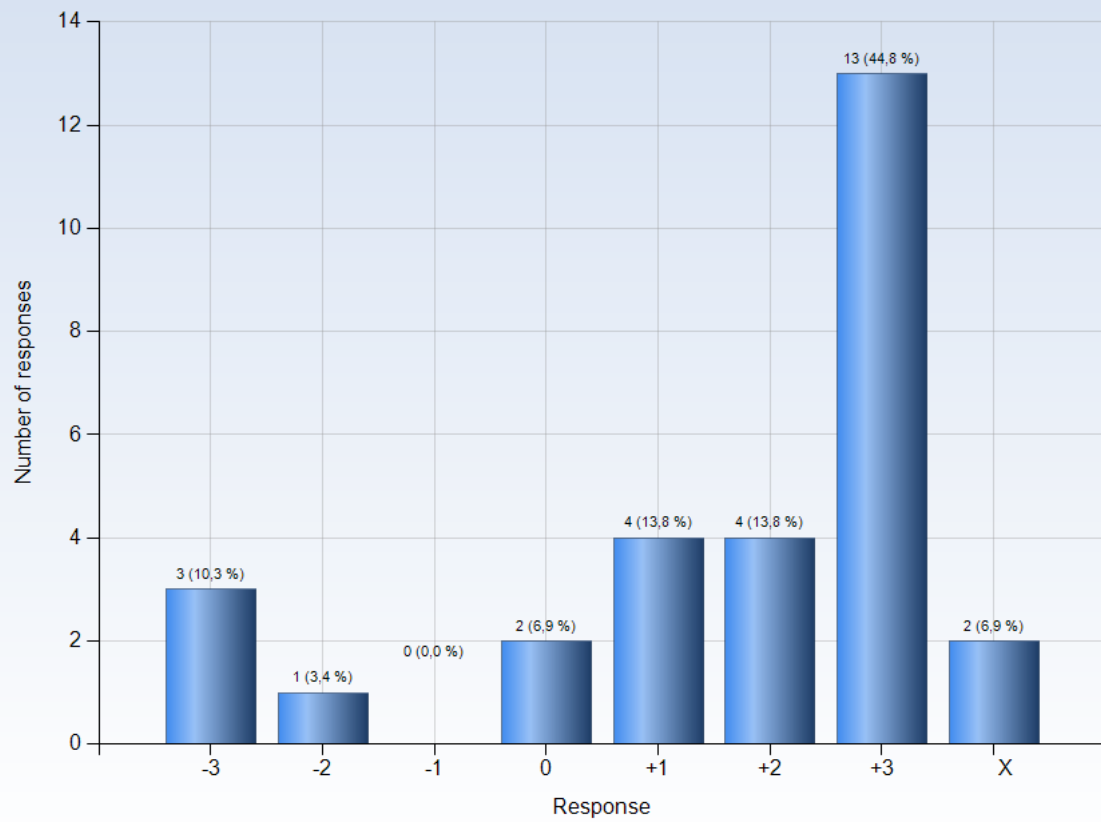
Comments

Comments (My response was: -2)

Det var inte så mycket feedback att få överhuvudtaget. Man antog att man kunde det man skulle kunna om man gjort seminarierna.

16. The assessment on the course was fair and honest
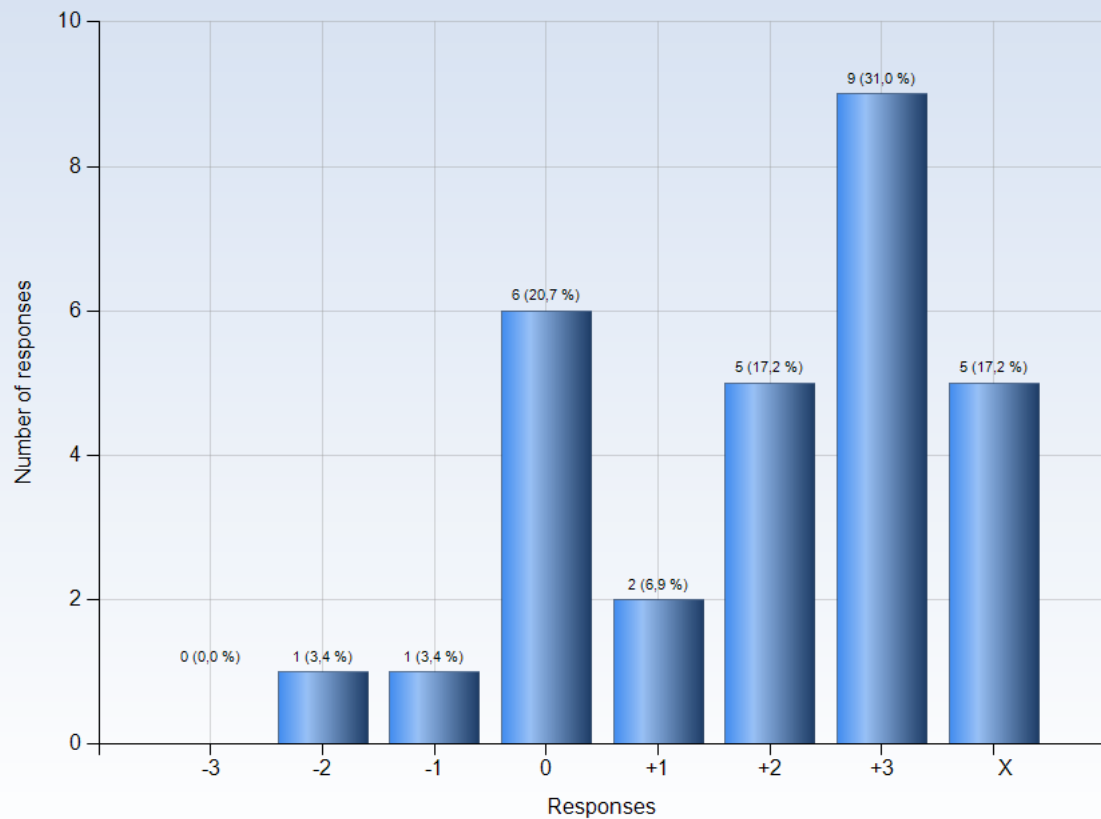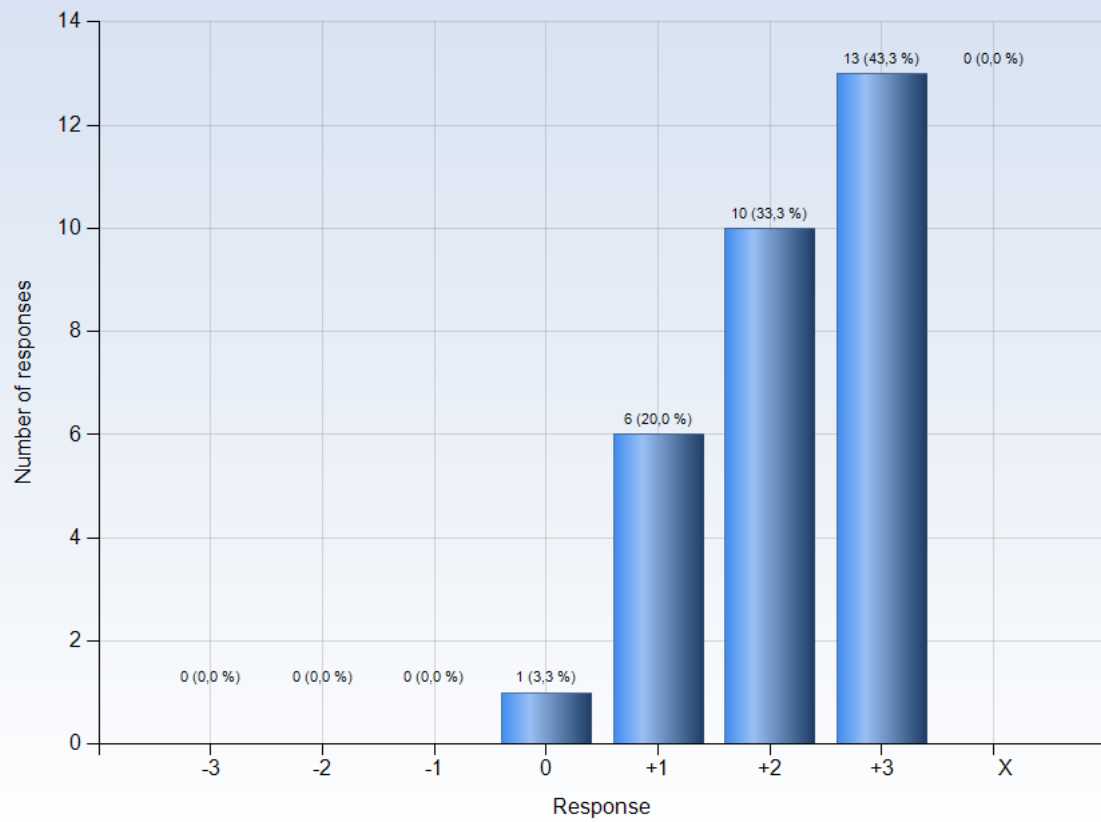

Comments

Comments (My response was: +3)

3 If we would have an example exam.

Comments (My response was: X   )

I don't know regarding every part of the exam. But all latter questions were built on a Heap task. And if you didn't specifically know much about heaps, you could not continue, even though the course isn't on heaps.

Only the exam can tell and it's not corrected yet

## 17. My background knowledge was sufficient to follow the course

Comments
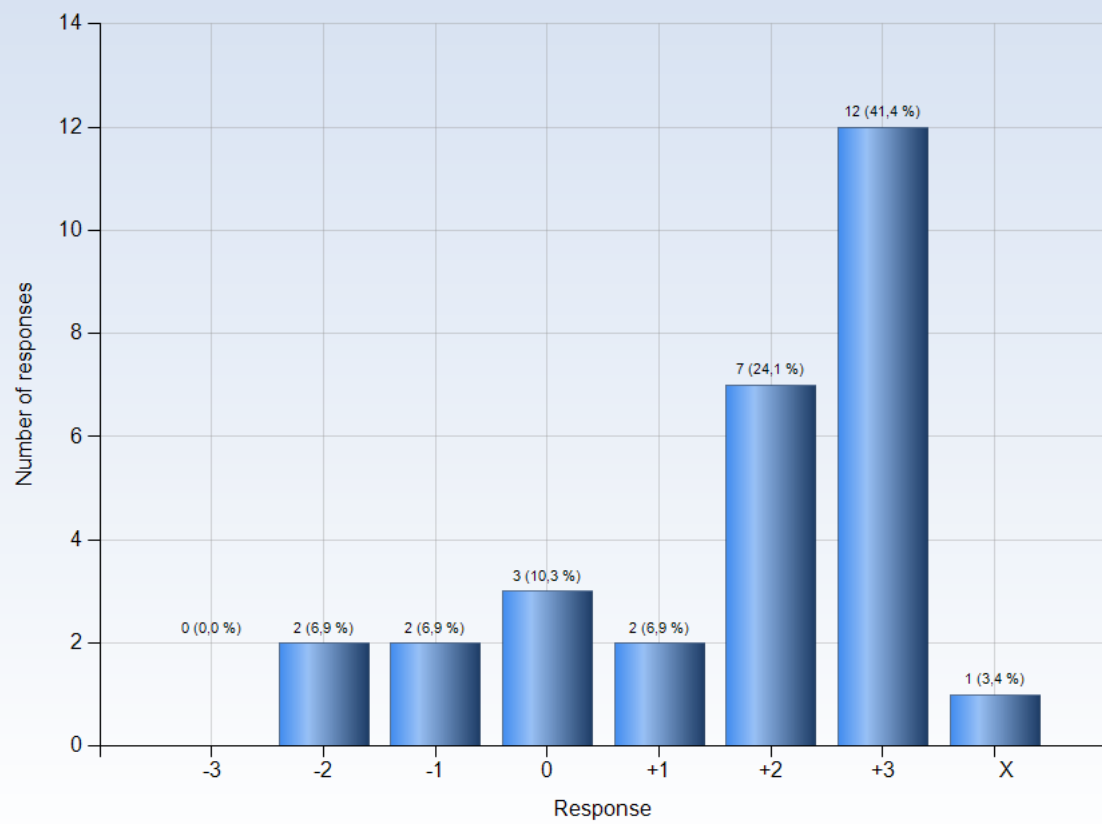
Comments (My response was: +1)

Operationell semantik kändes det som att jag saknade en genomgång av syntax till även efter föreläsningen och pdf:en på ämnet. Svårt att hitta förklarande texter om via sökning på internet också vilket inte gjorde saken bättre.

18. I regularly spent time to reflect on what I learned
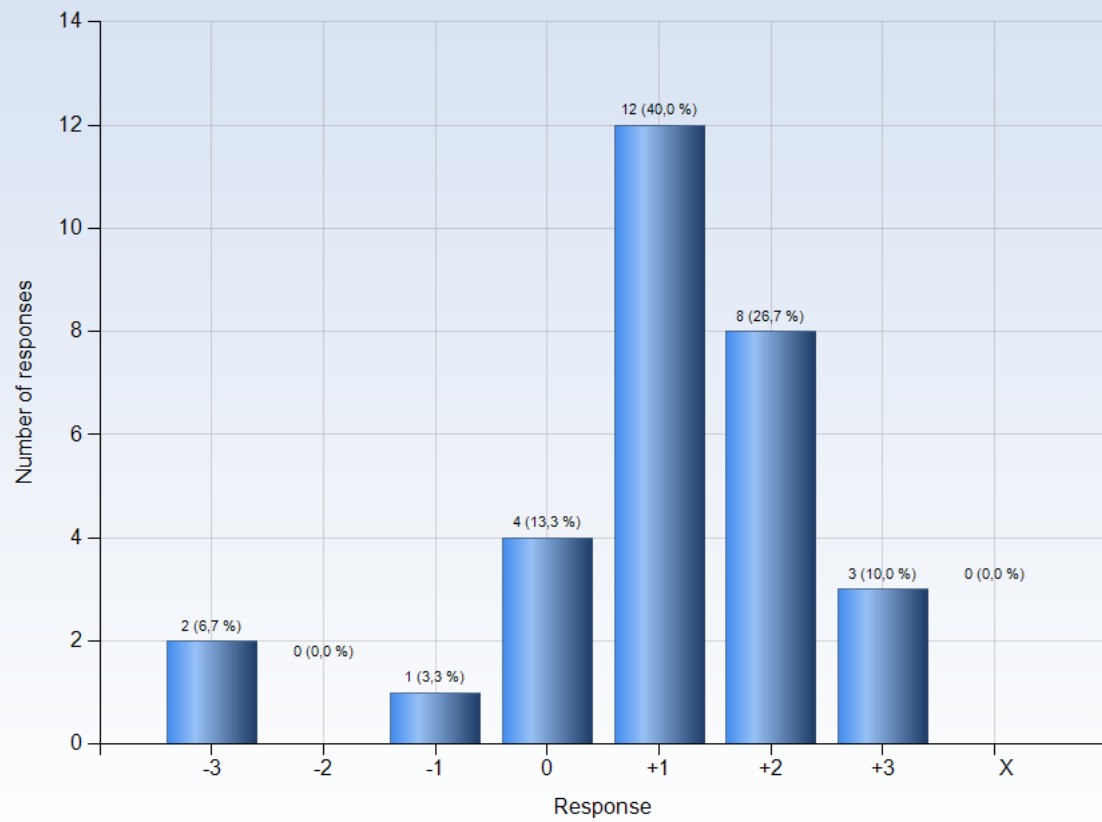
Comments
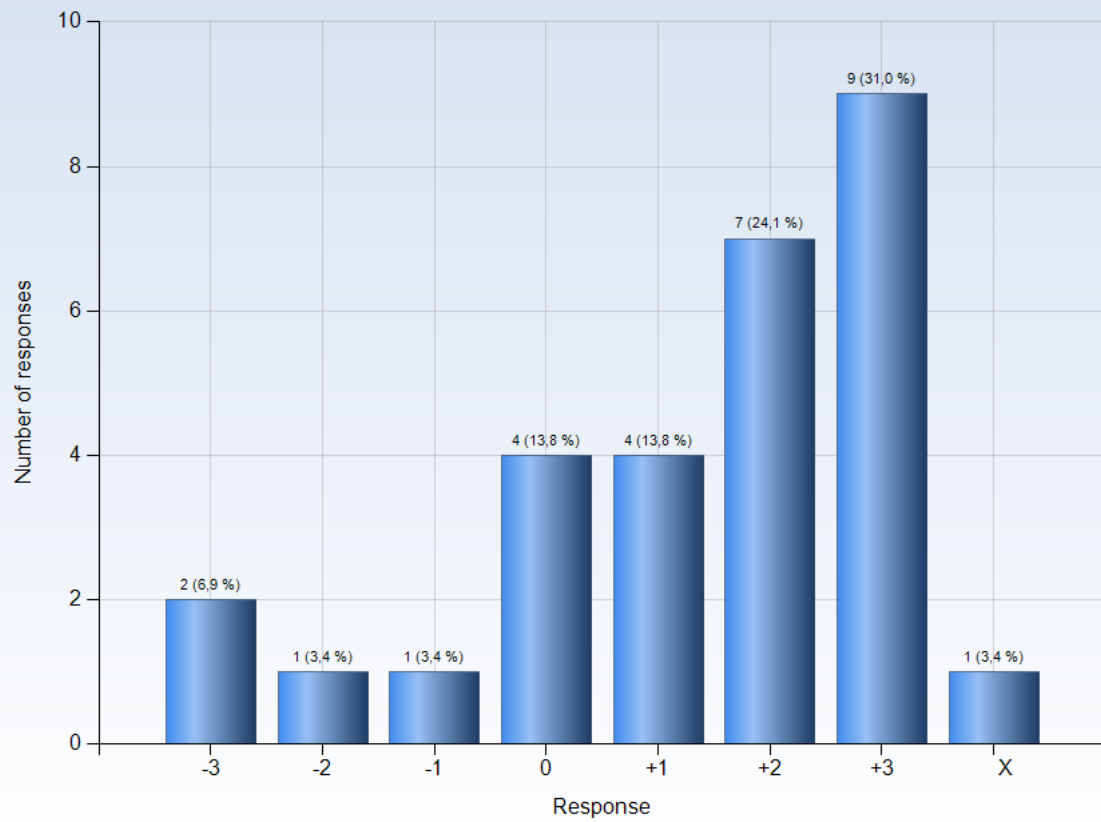
19. I was able to learn in a way that suited me

Comments

Comments (My response was: 0)

Jag föredrar små miniförhör genom hela kursen men jag gillar upplägget att göra uppgifter för att lära sig

20. I had opportunities to choose what to do

Number of responses vs Response

- -3: 2 (6,9 %)
- -2: 1 (3,4 %)
- -1: 1 (3,4 %)
- 0: 4 (13,8 %)
- +1: 4 (13,8 %)
- +2: 7 (24,1 %)
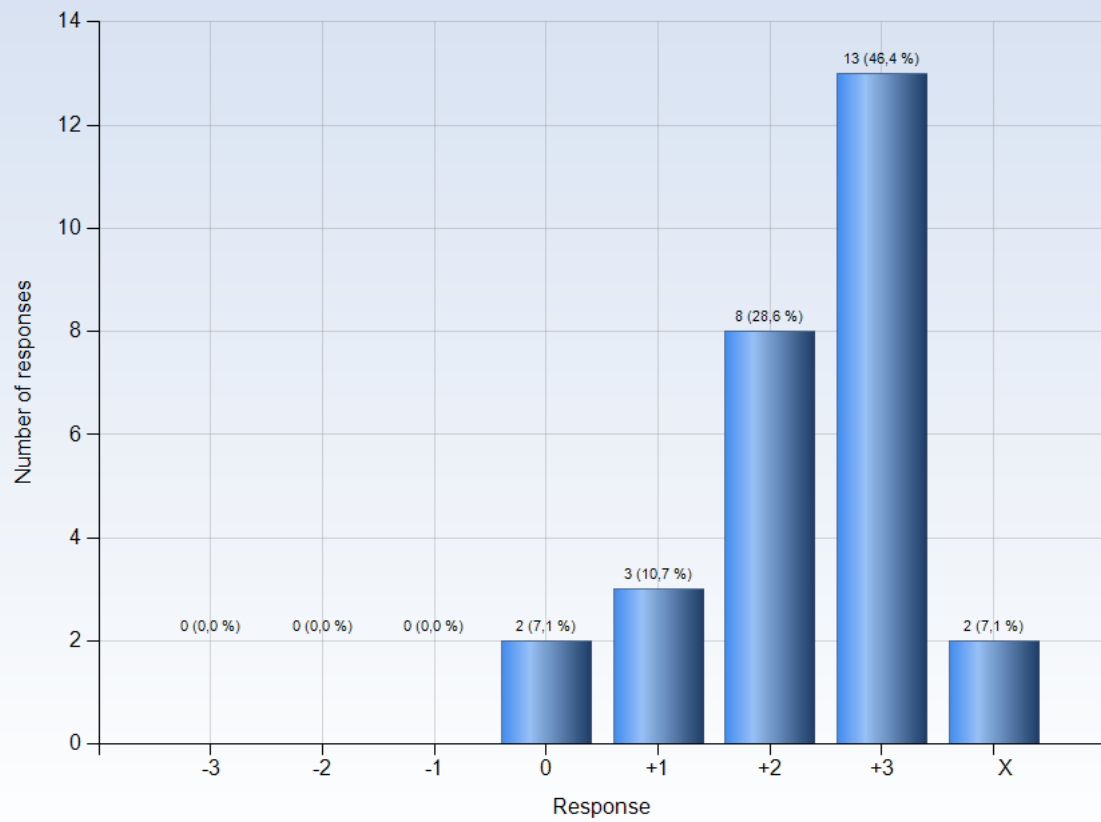- +3: 9 (31,0 %)
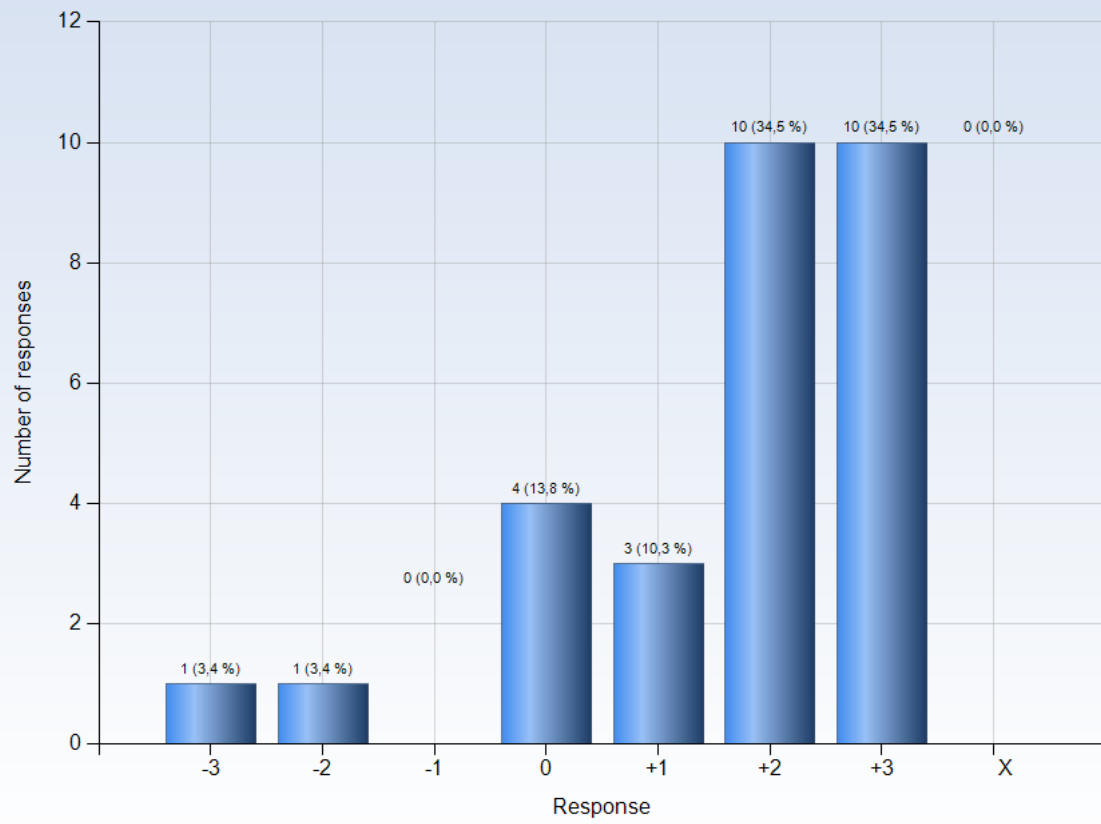- X: 1 (3,4 %)

Comments

Comments (My response was: +2)

Lite för fritt kanske. Det var svårt att veta om man skulle prioritera övningarna eller seminarierna.

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