

# Kursanalys för Arkitektur och design av globala applikationer, IV1201, VT 23

Leif Lindbäck

14 april 2023

## 1 Minnesanteckningar från kursnämnd

Det var tyvärr ingen som ville vara med i kursnämnden.

## 2 Enkät

LEQ-enkäten besvarades tyvärr endast av 7 deltagare, vilket motsvarar 16% av kursdeltagarna. Det fullständiga resultatet finns i bilaga ett.

### 2.1 Analys av tidsåtgång

Kursenkäten visar att arbetsbelastningen varierar mycket, men att snittarbetstiden är rimlig. Det stämmer med synpunkterna i de skriftliga rapporter som lämnats in under kursens gång. Deltagarna lämnar in fyra skriftliga rapporter under kursen, och uppmanas varje gång ange arbetstid och synpunkter på kursen. Förklaringar till de stora variationerna i arbetstid kan vara dels olika ambitionsnivå, dvs olika betyg, dels olika förkunskaper.

### 2.2 Analys av kursupplevelsen

Kursupplevelsen är mycket positiv. Endast två områden av 22 har ett omdöme under 6 på den sjugradiga skalan, och det lägsta omdömet är 5,7. Synpunkter som framförts i de skriftliga rapporterna visar att många är mycket nöjda med att kursen består av ett omfattande mjukvaruprojekt, som ger övning i flera viktiga moment. Många uppskattar också mycket att kursen har hög frihetsgrad, det är möjligt att tämligen fritt välja fördjupningsområde och ambitionsnivå. Det är också uppskattat att läraren är tillgänglig för att svara på frågor större delen av tiden under hela kursens gång.

### 3 Examinationsgrad

- 49 studenter kursregistrerades. 45 av dessa deltog aktivt i kursen, övriga fyra utförde inget arbete någon gång under kursen.
- 38 deltagare (84% av de aktiva deltagarna) klarade den enda delkursen INL1, och därmed hela kursen.
- Slutbetygen föredelade sig som följer.

Betyg	Antal	Procentandel av deltagare
A	9	20%
B	6	13%
C	14	31%
D	8	18%
E	1	2%
F/ej klar	7	16%

### 4 Förändringar från föregående kursomgång

Följande förändring genomfördes från förra kursomgången, den föll väl ut och permanentas.

- Ytterligare en gästföreläsning hölls, den handlade om micro servcies.

### 5 Åtgärder till nästa kursomgång

Inga förändringar planeras till nästa kursomgång.

## **Bilaga 1, Resultat av LEQ-enkät**

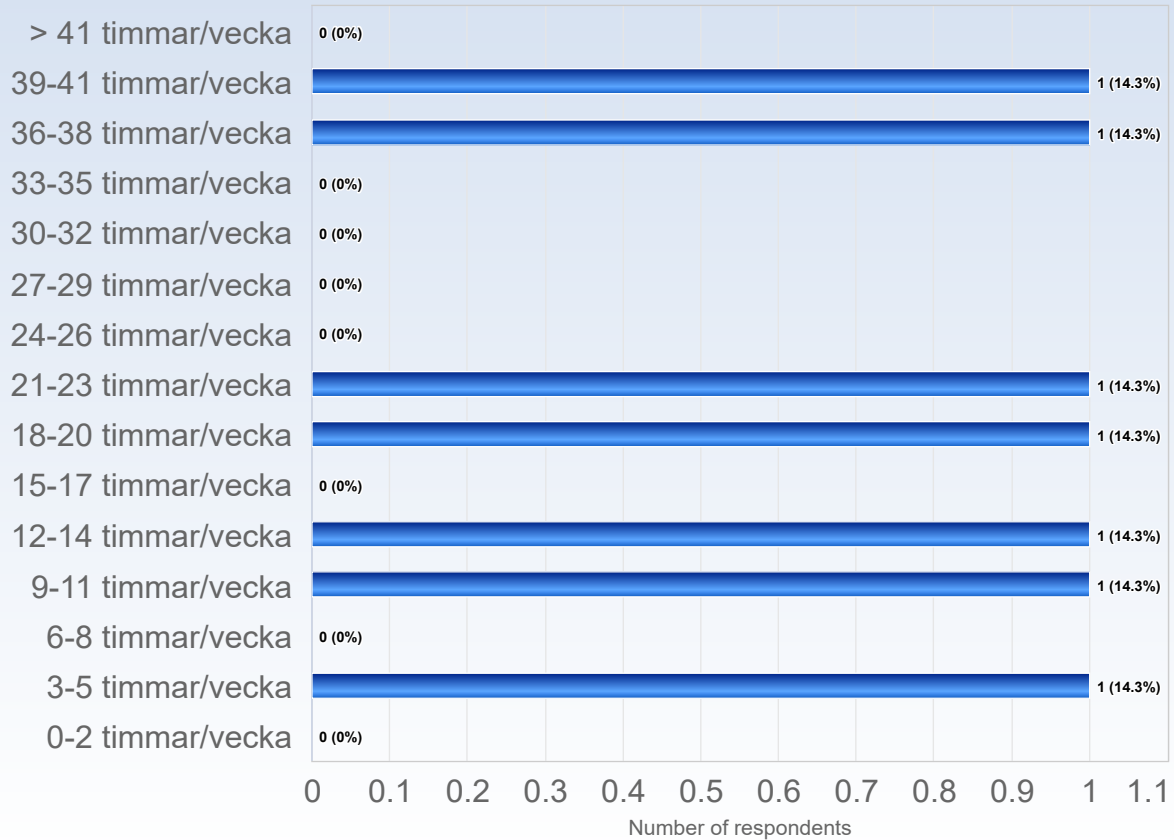
Här presenteras det fullständiga resultatet av kursenkäten.

# IV1201 - 2023-03-30

Antal respondenter: 49  
Antal svar: 7  
Svarsfrekvens: 14,29 %

## ESTIMATED WORKLOAD

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



### Comments

Comments (I worked: 39-41 timmar/vecka)

Bästa lärarika kursen på länge, DATATEKNIK BORDE INKLUDERA DETTA MER I SIN UTBILDNING/PROGRAM

# LEARNING EXPERIENCE

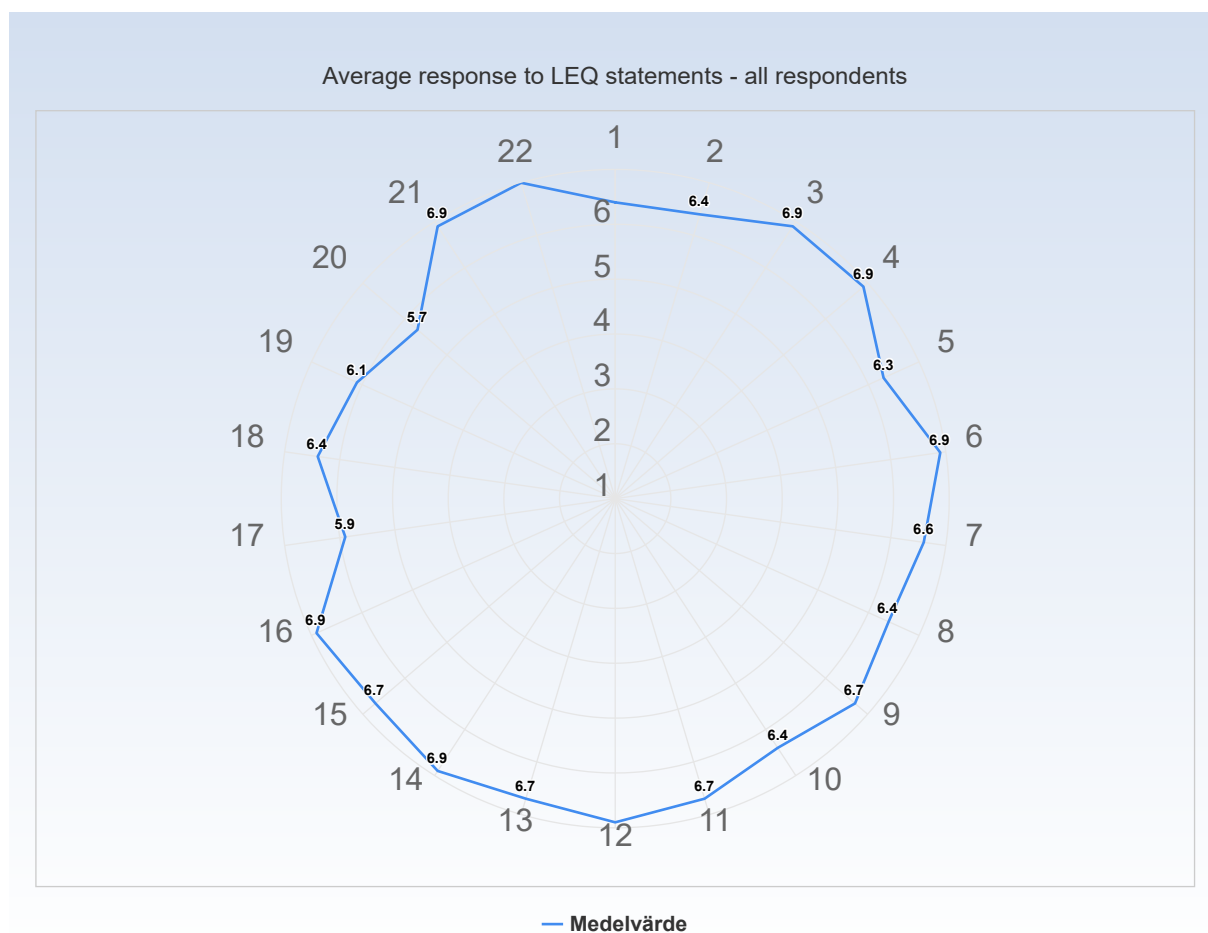
The polar diagrams below show the average response to the LEQ statements for different groups of respondents (only valid responses are included). The scale that is used in the diagrams is defined by:

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.**



## **KTH Learning Experience Questionnaire v3.1.4**

### **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. The course was organized in a way that supported my learning (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 participation*

- 19. The course activities enabled me to learn in different ways (m)
- 20. I had opportunities to influence the course activities (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, exciting or important

b) We are able to speculate, test 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 and at the same time supportive environment

d) We feel that we are part of a community and believe that other people have confidence 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 adequate prior knowledge to deal with the current learning situation

g) We are able to learn inductively by moving from concrete examples and experiences to general principles, rather than the reverse

h) We are challenged to develop a true understanding of key concepts and gradually create a coherent whole from the content

i) We believe that the work we are expected to do will help us to achieve the intended learning outcomes

j) We are able to try, fail, and receive feedback before, and separate from, each summative assessment of our efforts

k) We believe that our work will be considered in an honest and fair way

l) We have sufficient time for learning and devote the time needed to do so

m) We believe that we have control over our own learning, and not that we are being manipulated

n) We are able to collaborate 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.

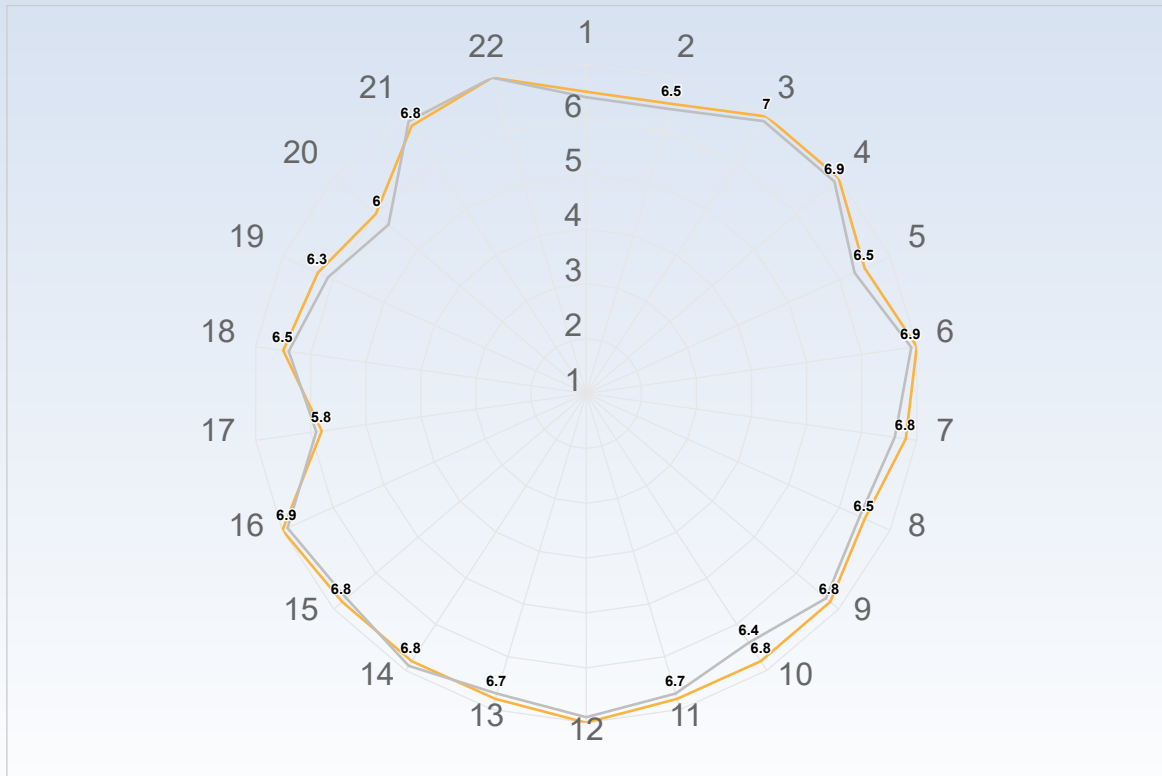
Biggs J. & Tang, C. (2011). *Teaching for Quality Learning at University*, Chapter 6, pp. 95-110. Maidenhead: McGraw Hill.

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.

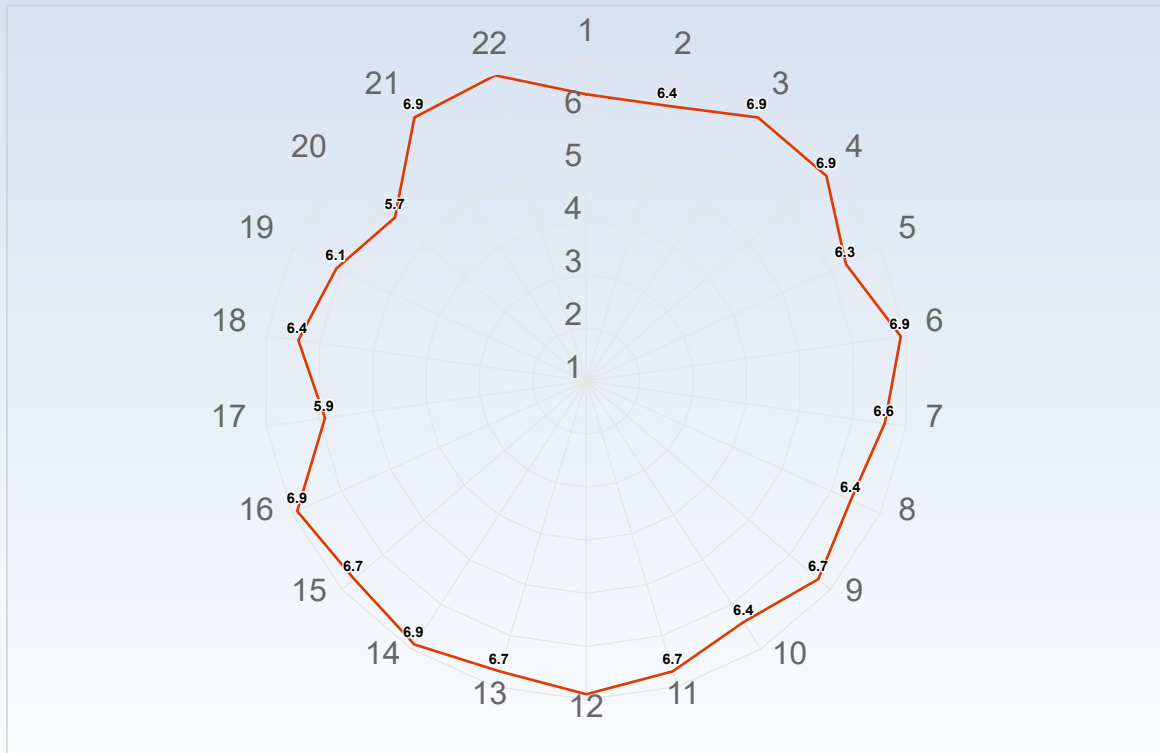
Ramsden, P. (2003). *Learning to Teach in Higher Education*, Chapter 6, pp. 84-105. New York: RoutledgeFalmer.

Average response to LEQ statements - per gender



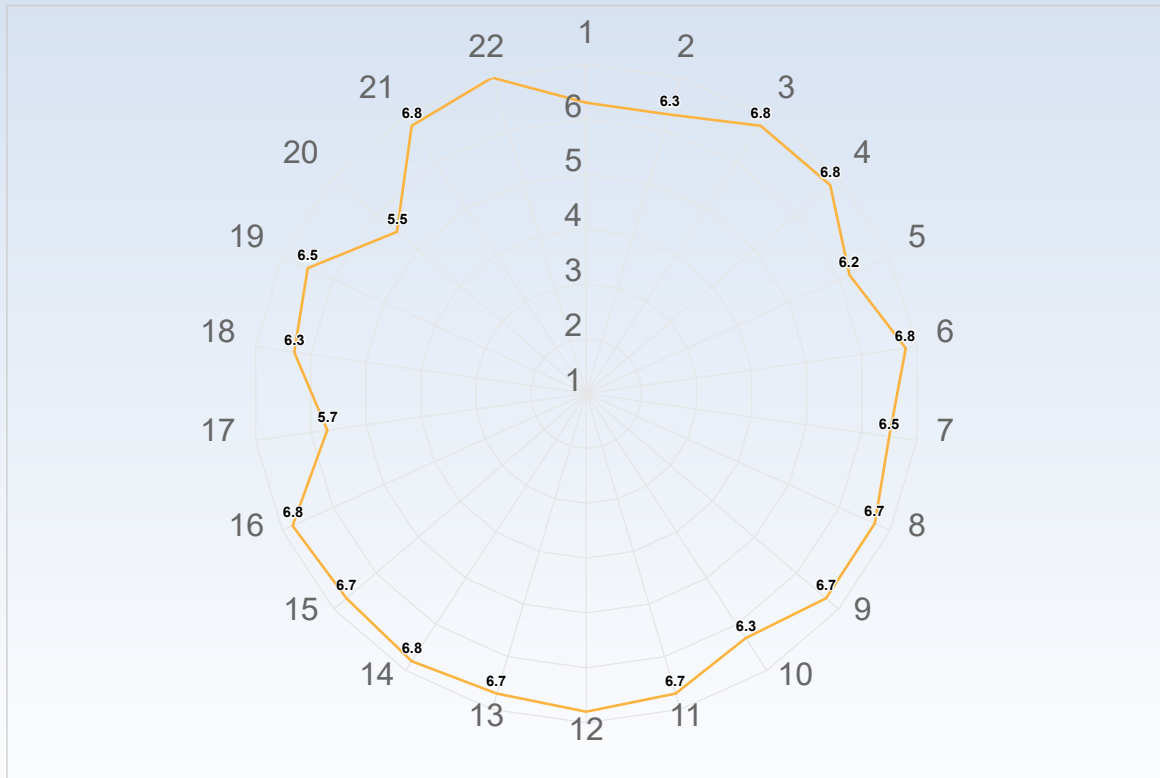
— Kvinna — Man — Annat — Vill ej uppge — (Answered)

Average response to LEQ statements - per type of student



- Internationell masterstudent
- Svensk student i årskurs 4-5
- Internationell utbytesstudent
- Annan typ av student
- Svensk student i årskurs 1-3
- Vill ej uppge

Average response to LEQ statements - per disability



— Ja — Nej — Vill ej uppge

Comments

Comments (My response was: Ja)

Behövde ingen extra hjälp med den här kursen

## GENERAL QUESTIONS

What was the best aspect of the course?

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

Friheten att lösa uppgiften på ett sätt som man själv argumenterat för

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

Friheten att välja hur man löste uppgifterna

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

Leif :)

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

Upplägget

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

Bra struktur, Att bygga projektet med front end och back end Var jätte givande och lärorik då man behöver det på marknaden när man gå och jobba i branschen

What was the best aspect of the course? (I worked: 39-41 timmar/vecka)

ALLT var väldigt viktigt att veta för framtida arbete i verkliga livet.

What would you suggest to improve?

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

Inte mycket.

What would you suggest to improve? (I worked: 12-14 timmar/vecka)

vet inte

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

Seminarier

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

Inget

What would you suggest to improve? (I worked: 39-41 timmar/vecka)

inget. Andra kurser borde förbättras med stt ha liknande material för lärande.

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)

Det är kull!

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

Implementera tester, det ger inte bara extrapoäng utan underlättar hela arbetet

What advice would you like to give to future participants? (I worked: 12-14 timmar/vecka)

Inget särskilt

What advice would you like to give to future participants? (I worked: 21-23 timmar/vecka)

Följ Leifs planering

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

Att läsa på alla material och se alla föreläsningen innan du börja med projektet

What advice would you like to give to future participants? (I worked: 39-41 timmar/vecka)

Lär dig , saker kommer ta tid att lära sig då ha tålmod.

Is there anything else you would like to add?

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

Nej

Is there anything else you would like to add? (I worked: 39-41 timmar/vecka)

Tack för att Leif finns på KTH.

## SPECIFIC QUESTIONS

---

---



## RESPONSE DATA

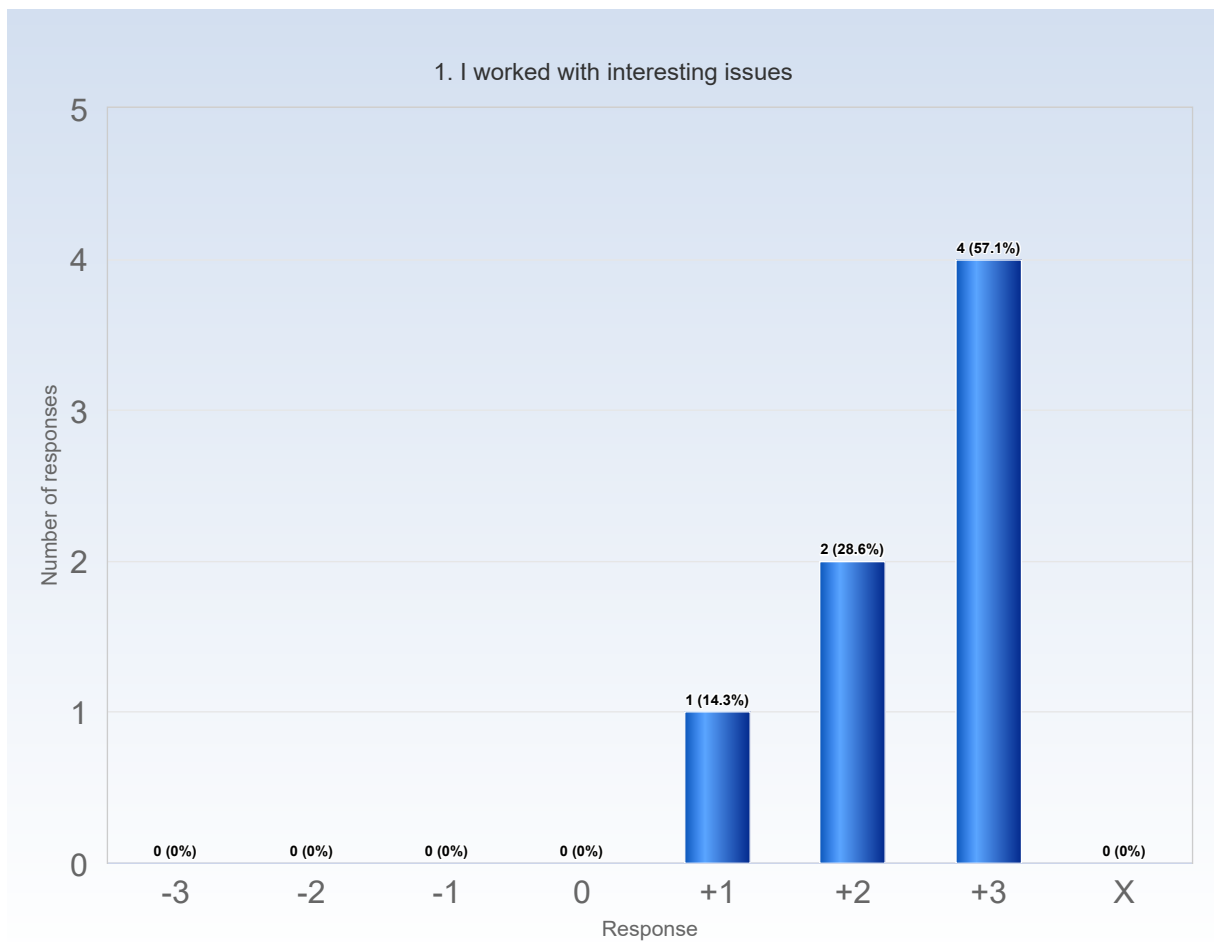
The diagrams below show the detailed response to the LEQ statements.  
The response scale is defined by:

-3 = No, I strongly disagree with the statement

0 = I am neutral to the statement

+3 = Yes, I strongly agree with the statement

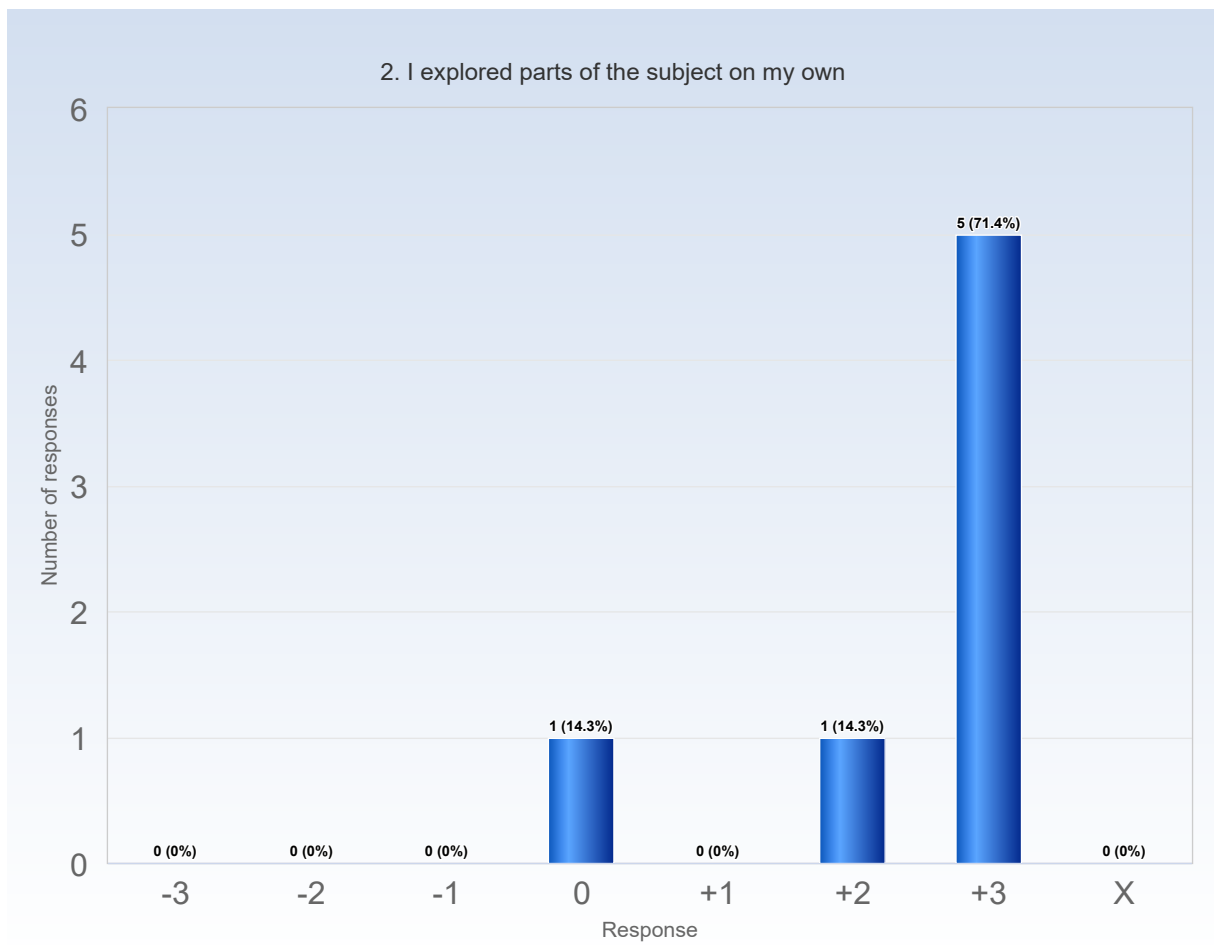
X = I decline to take a position on the statement



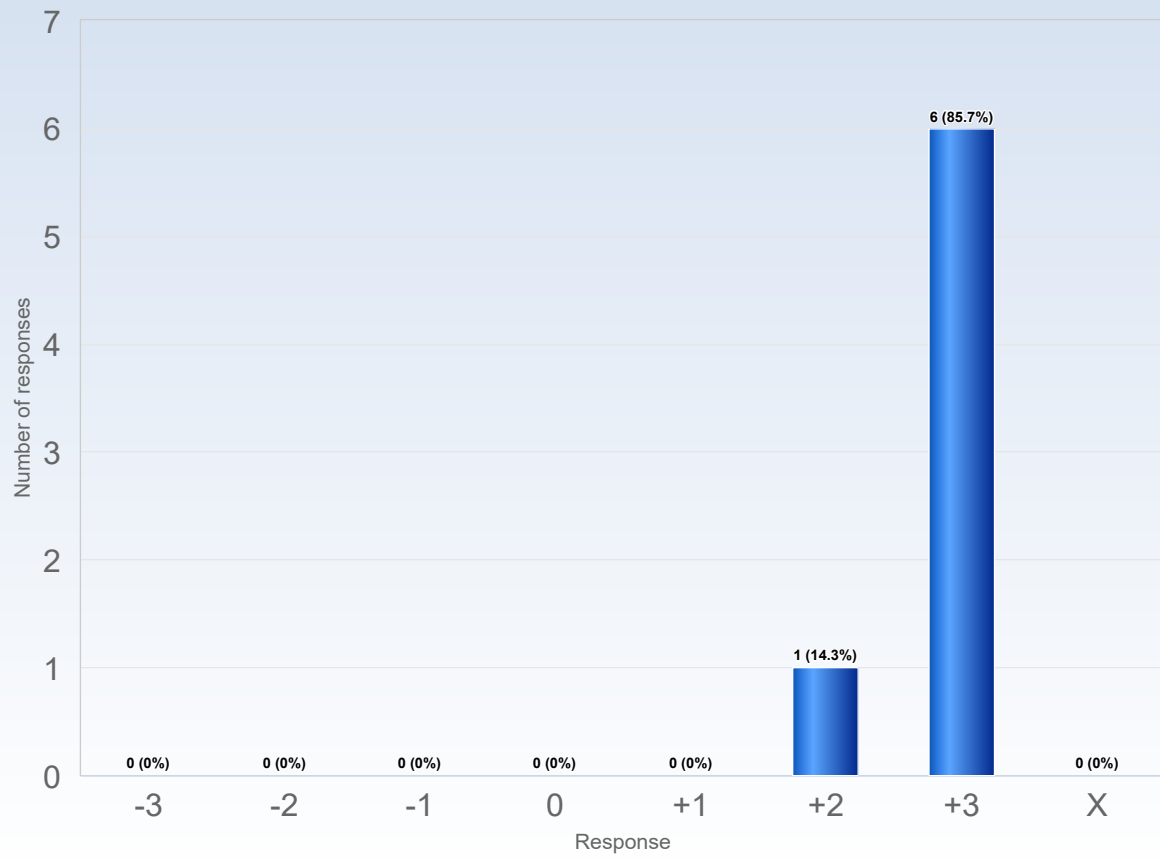
Comments

Comments (My response was: +3)

Jätte intressant



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

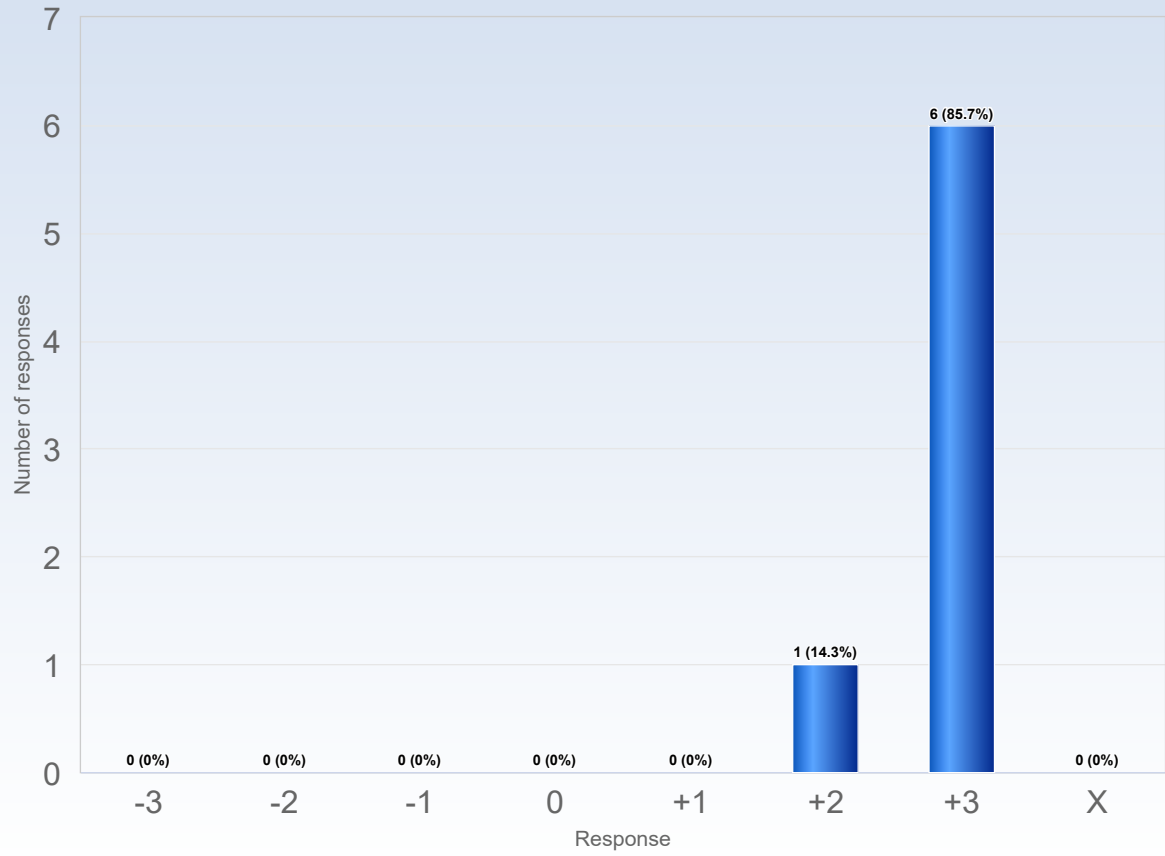


#### Comments

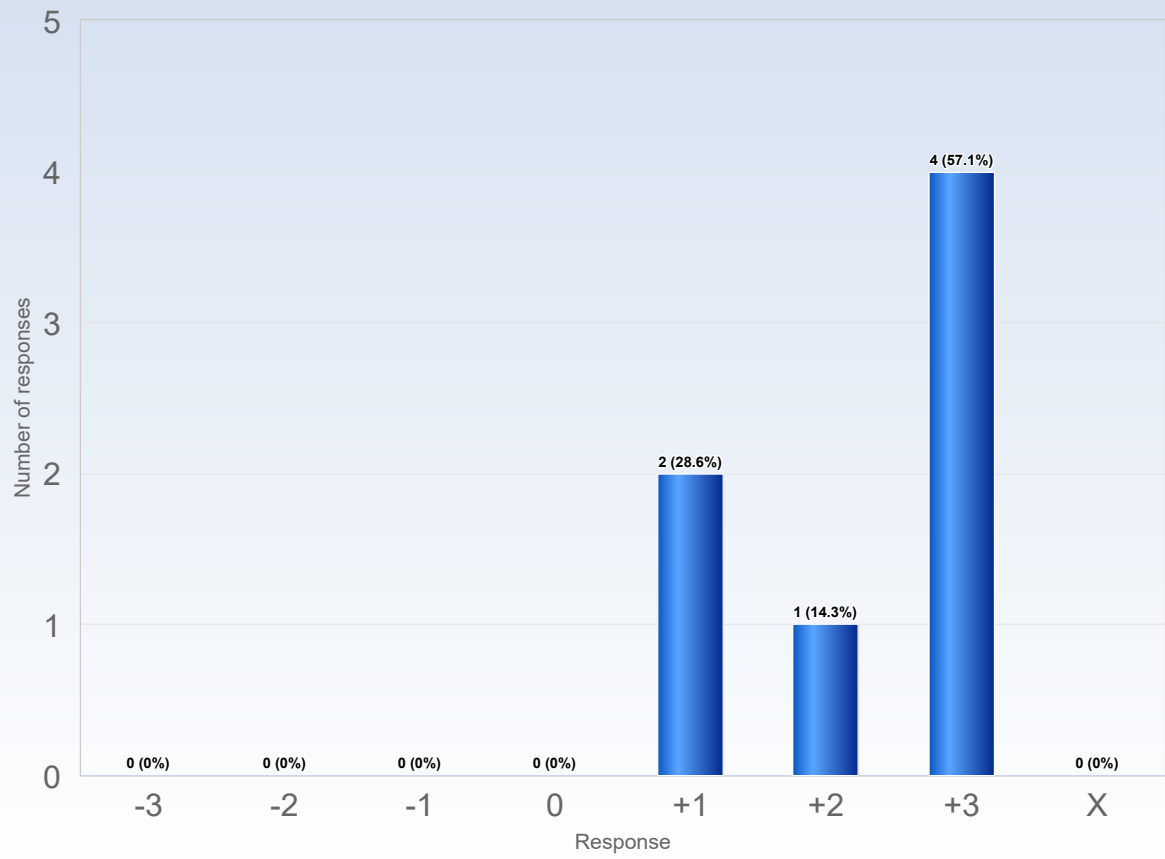
Comments (My response was: +3)

Projekt idé är fantastiskt, så man kan använda alla dina ide som under projekt

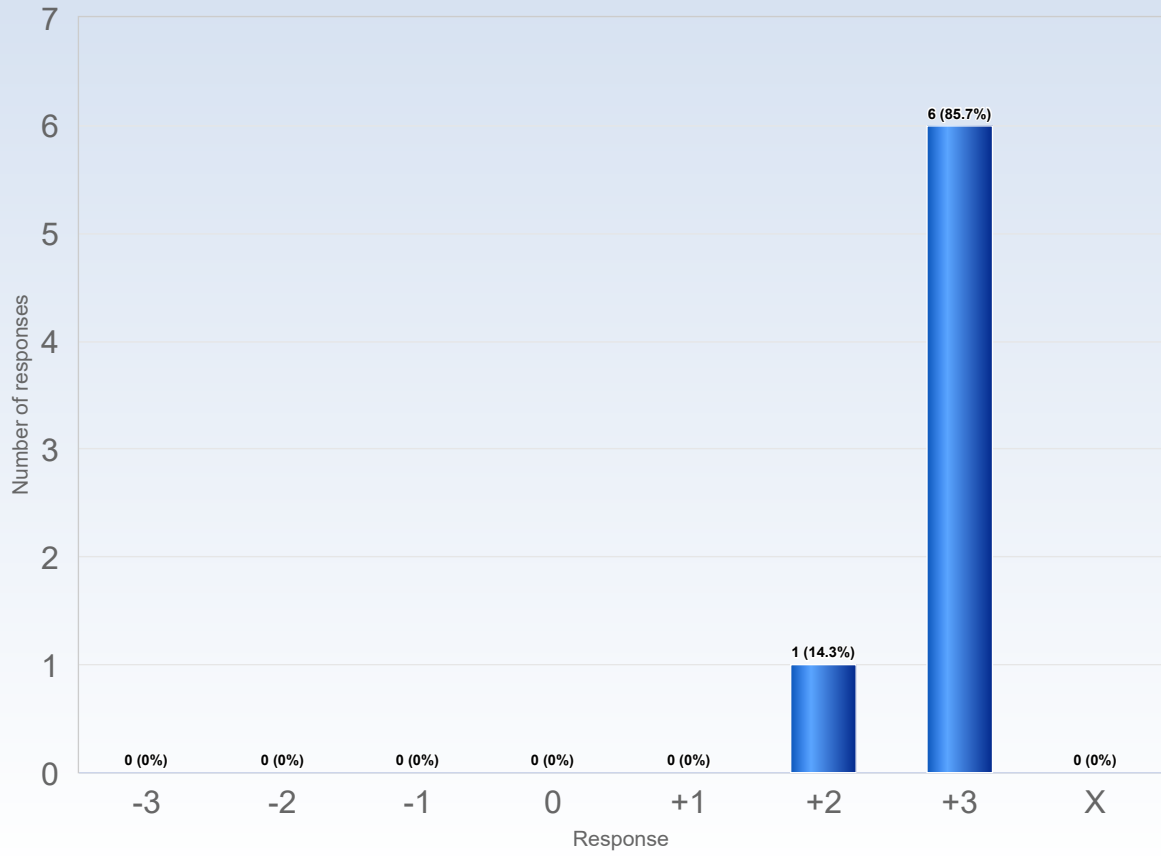
4. The course was challenging in a stimulating way



5. I felt togetherness with others on the course



6. The atmosphere on the course was open and inclusive

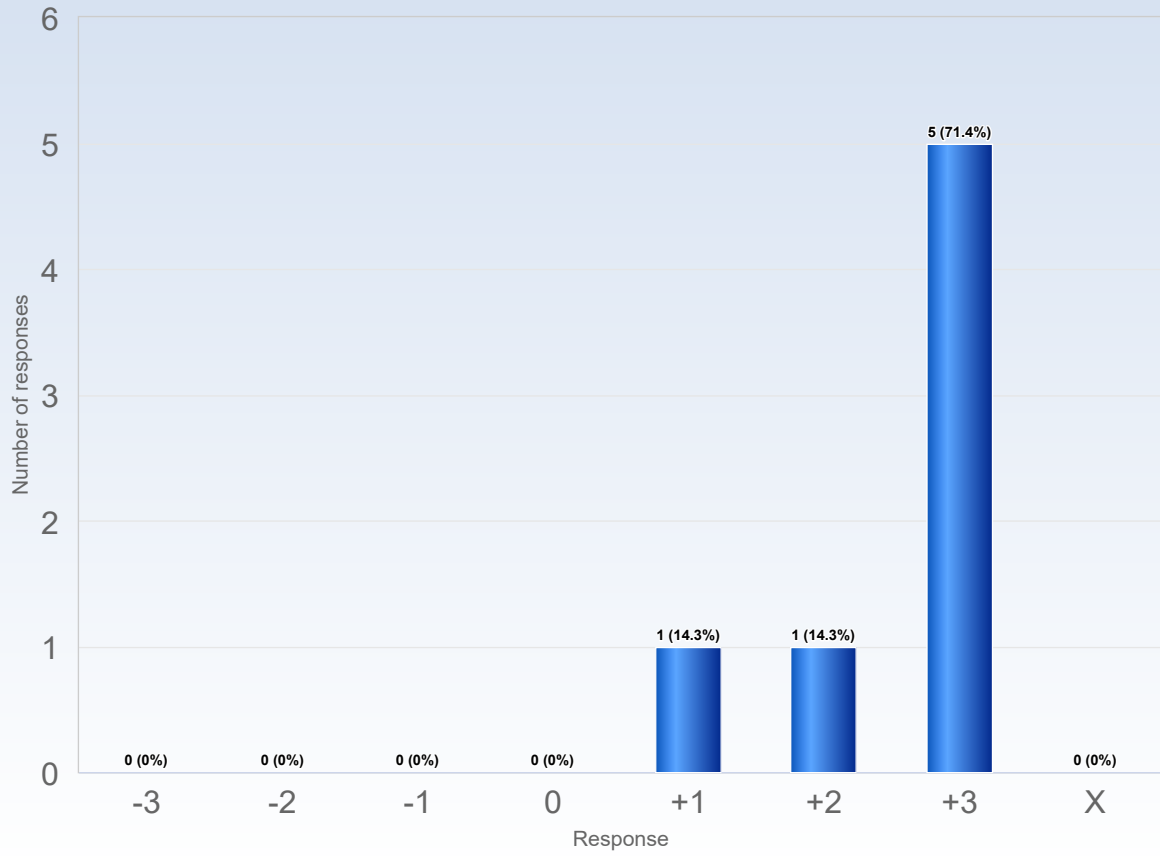


Comments

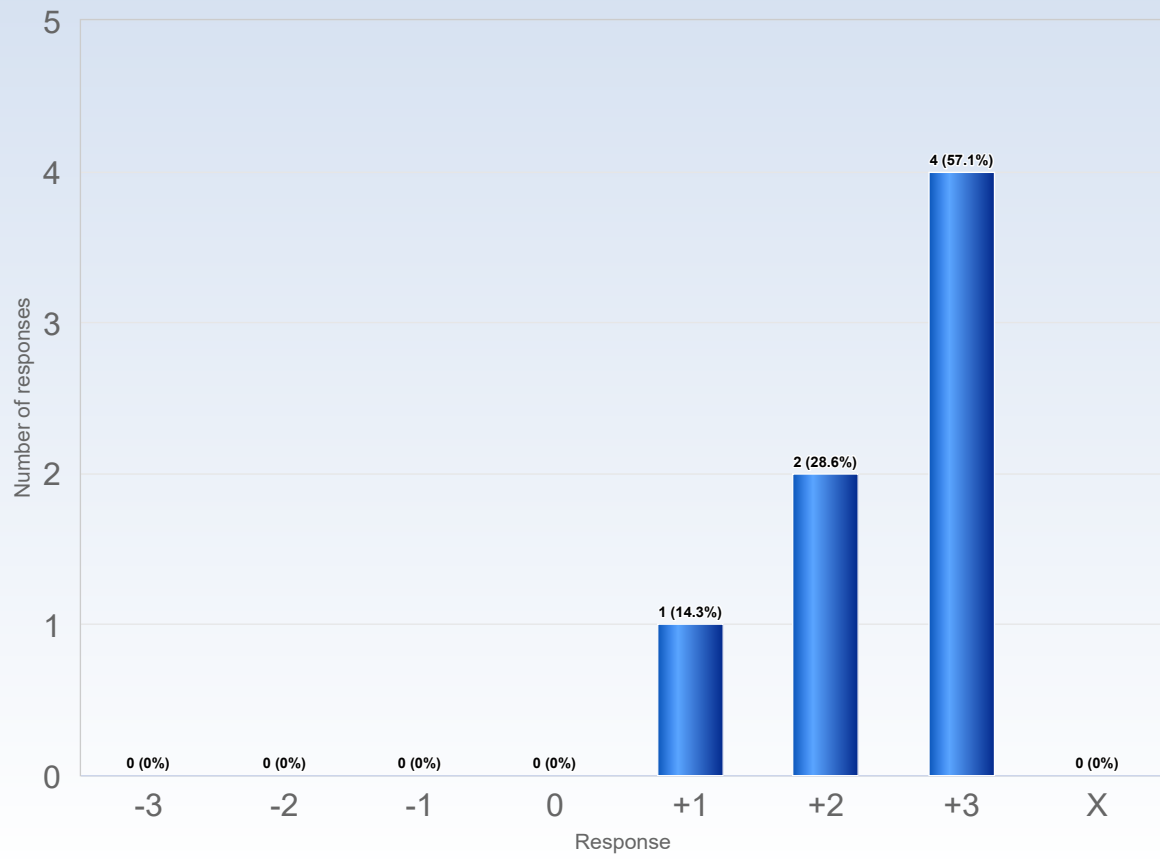
Comments (My response was: +3)

Bästa läraren

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



8. The course was organized in a way that supported my learning

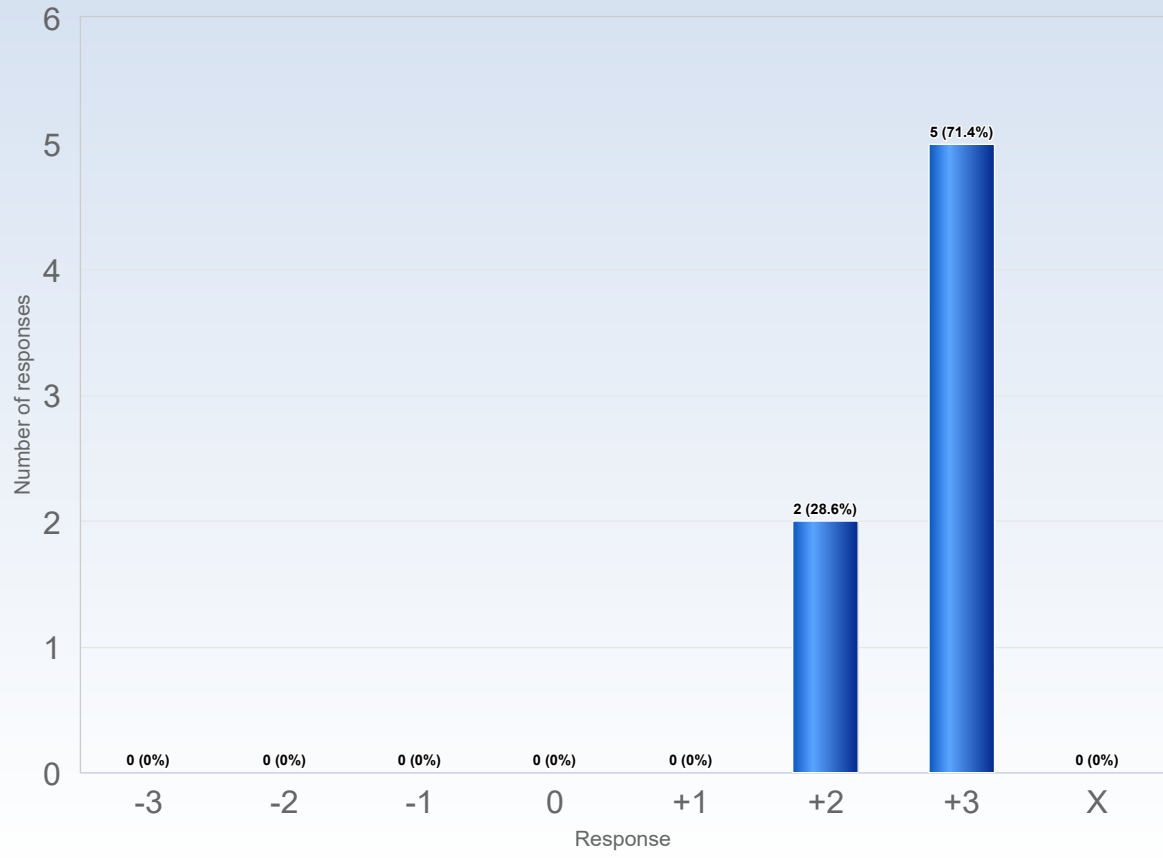


Comments

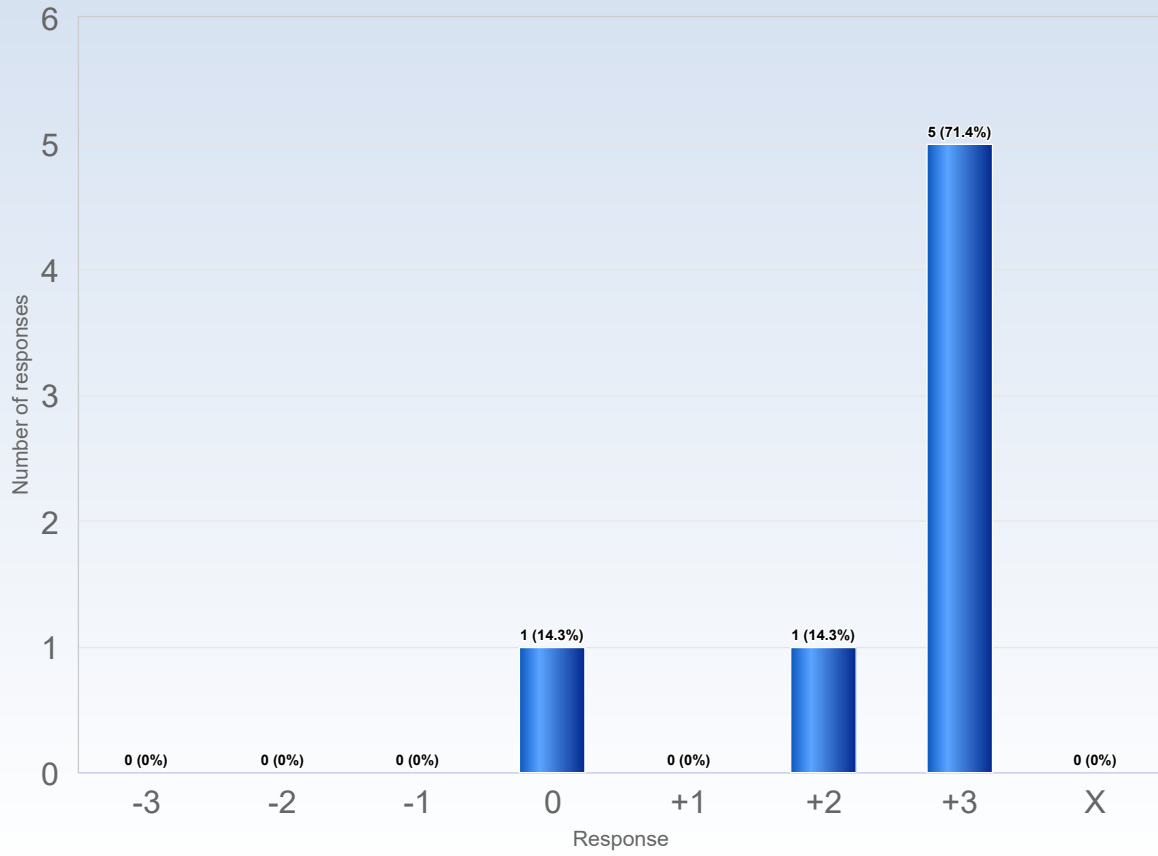
Comments (My response was: +3)  
Allting var organiserad på bra sätt



9. I understood what the teachers were talking about



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

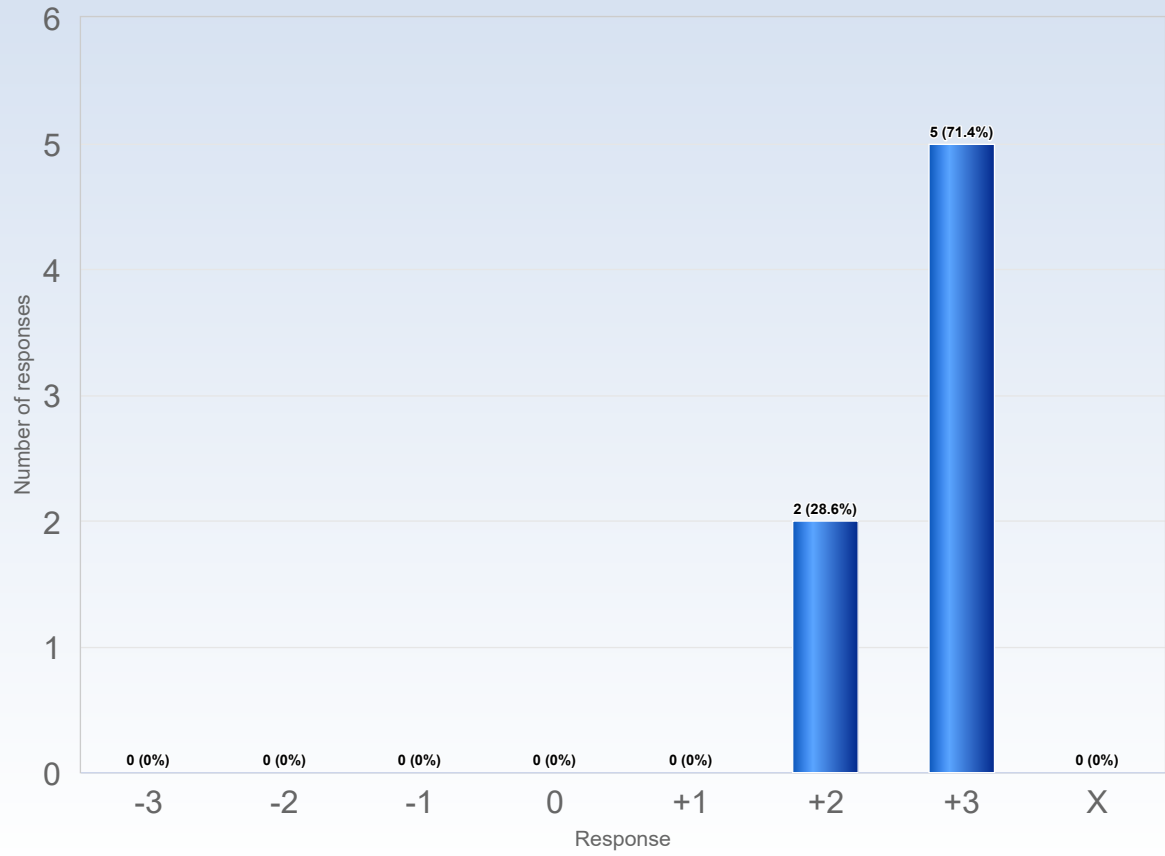


Comments

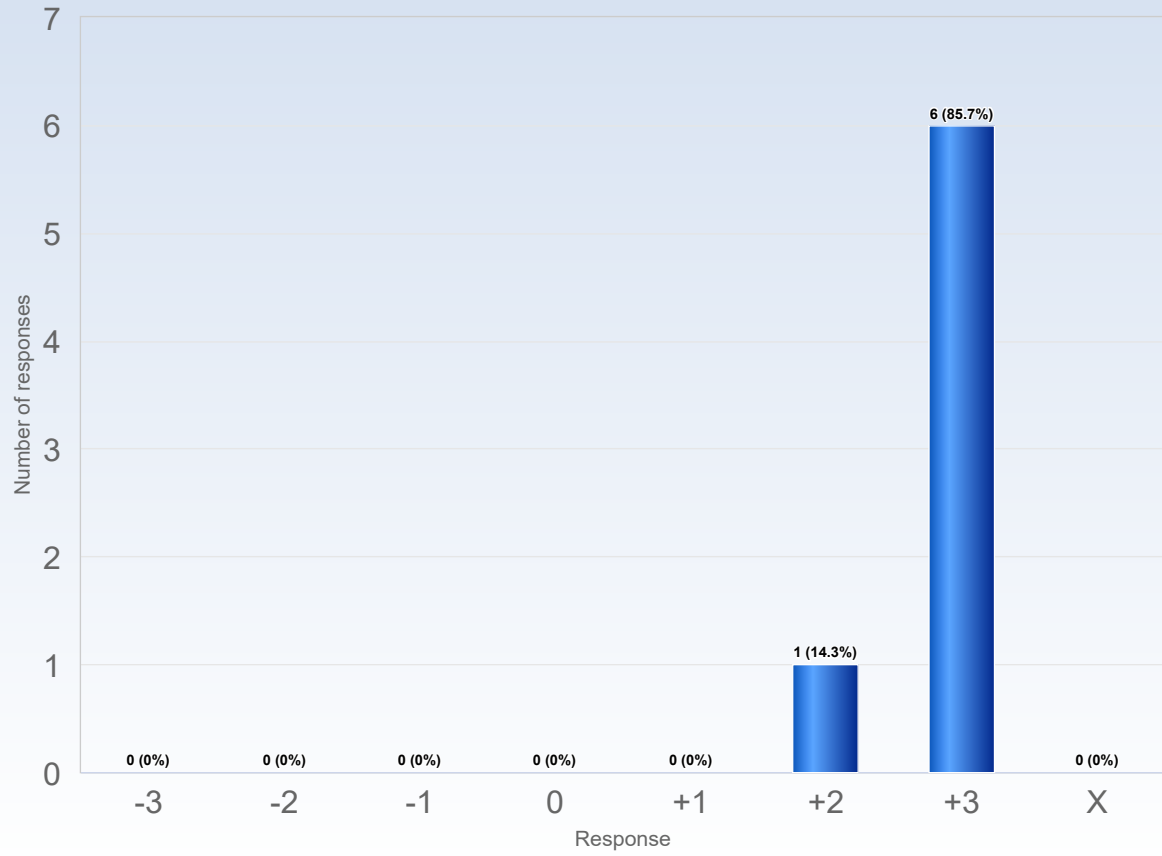
Comments (My response was: +3)

Alla exempel som lärare ger , dem hjälper mycket

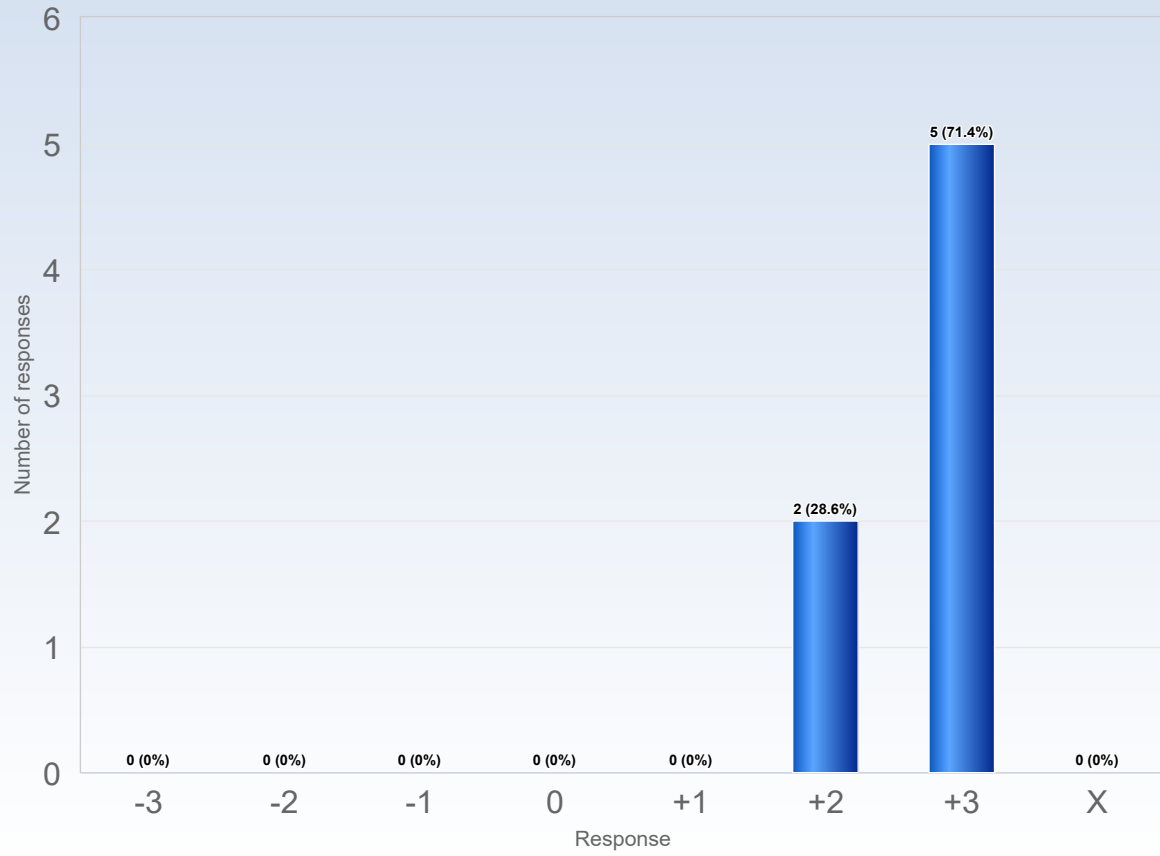
11. Understanding of key concepts had high priority



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



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

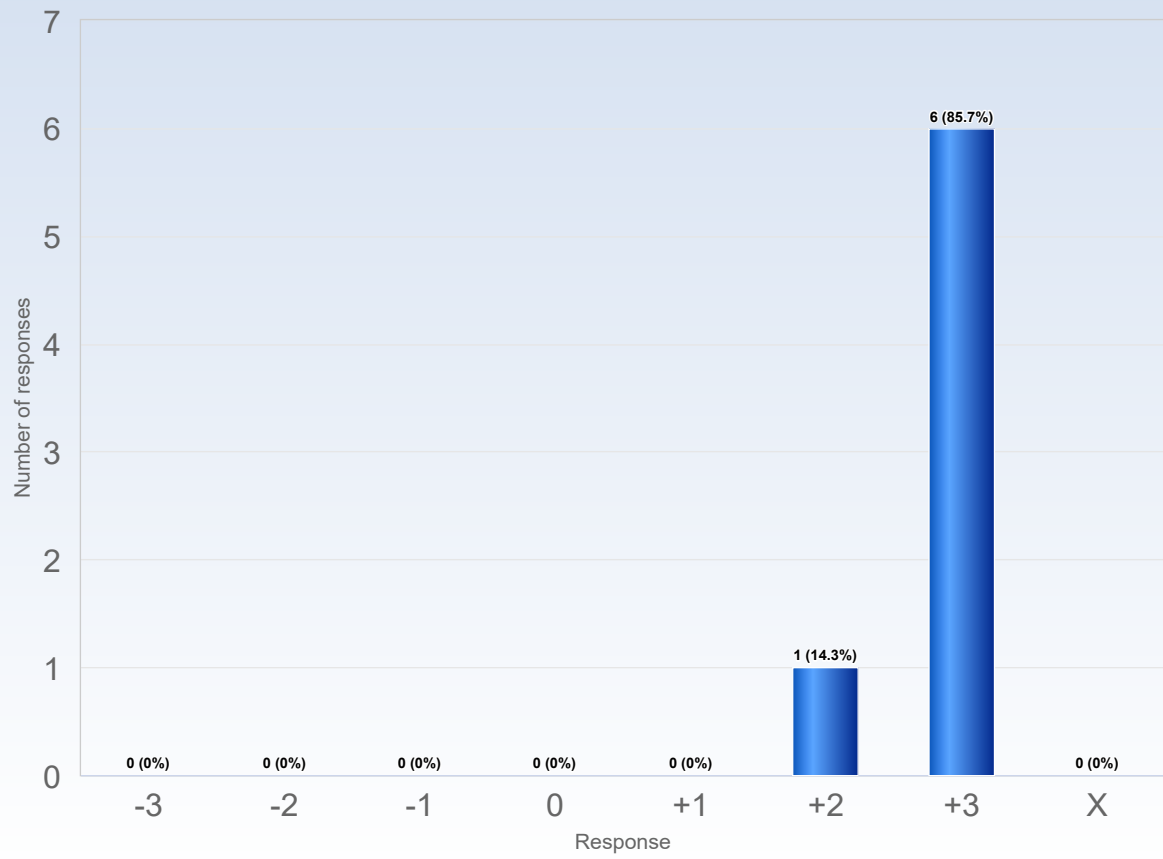


Comments

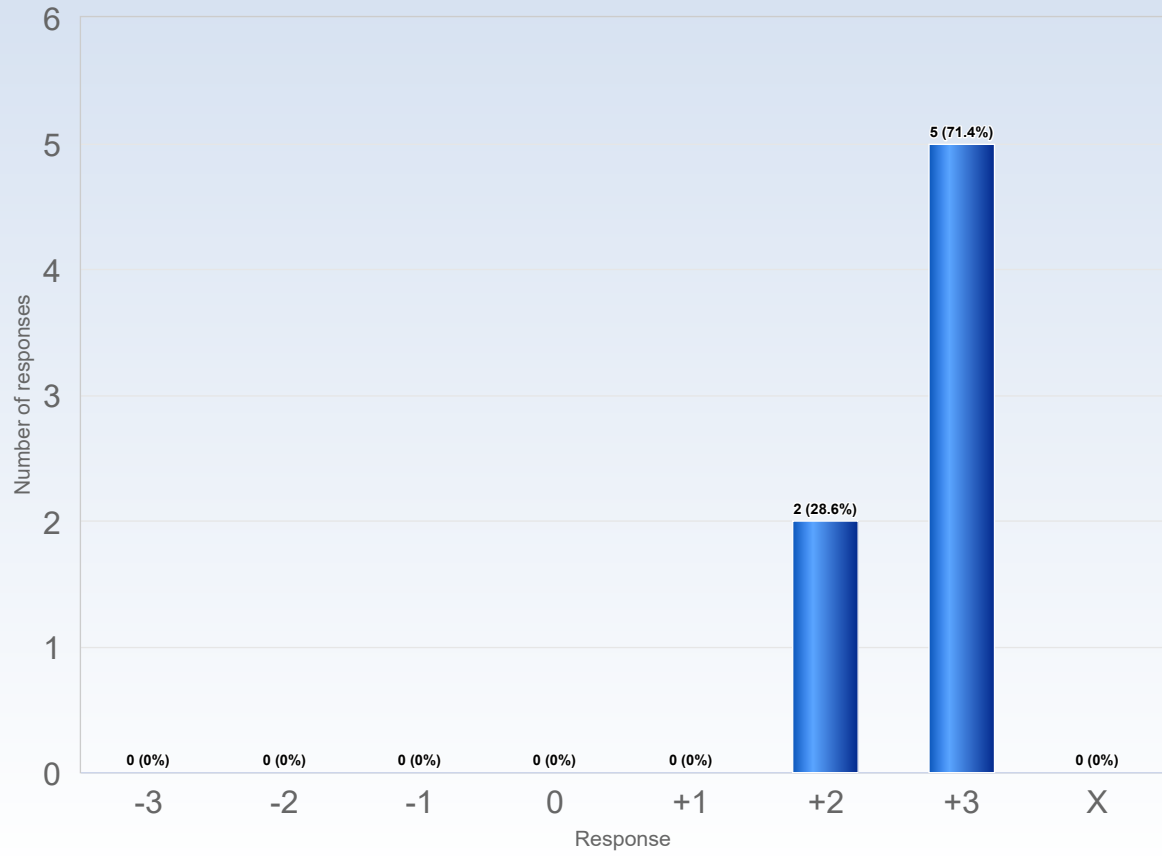
Comments (My response was: +3)

Det var bra med checklista då är mer tydligt vad man måste göra

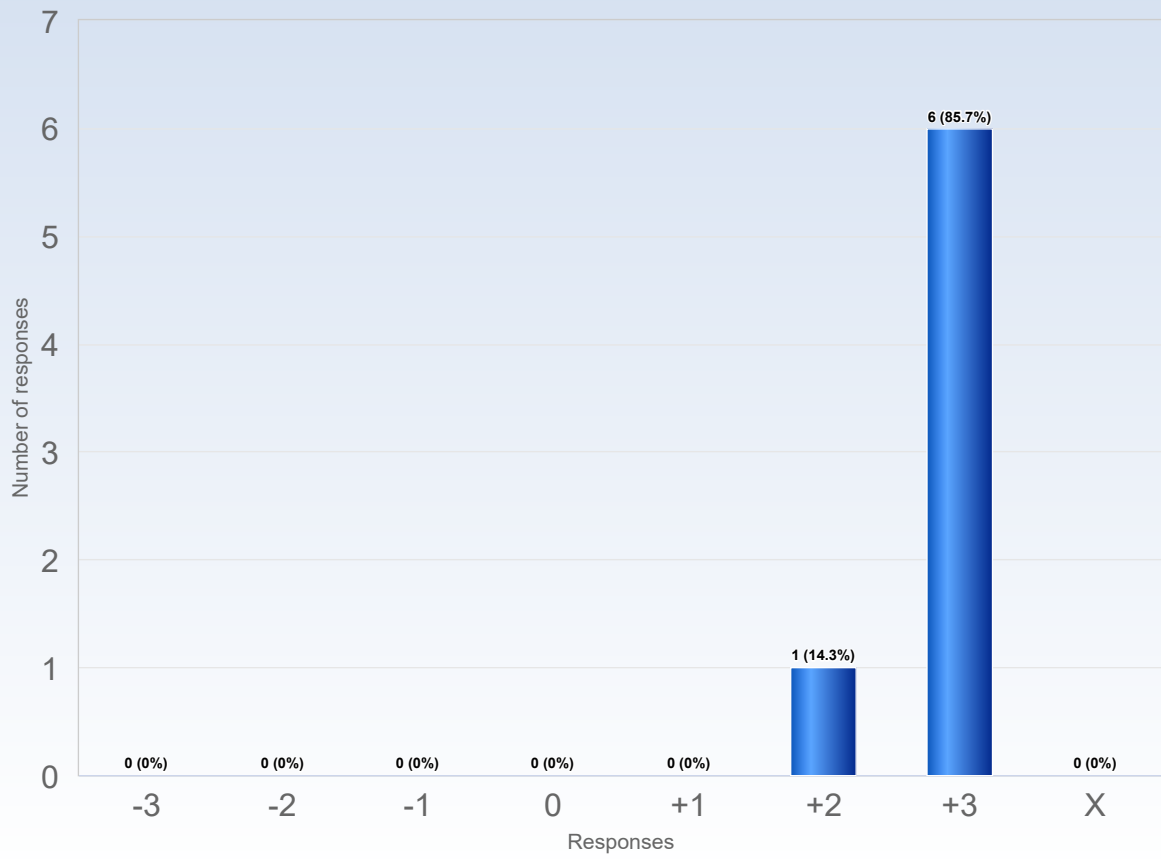
14. I received regular feedback that helped me to see my progress



15. I could practice and receive feedback without being graded

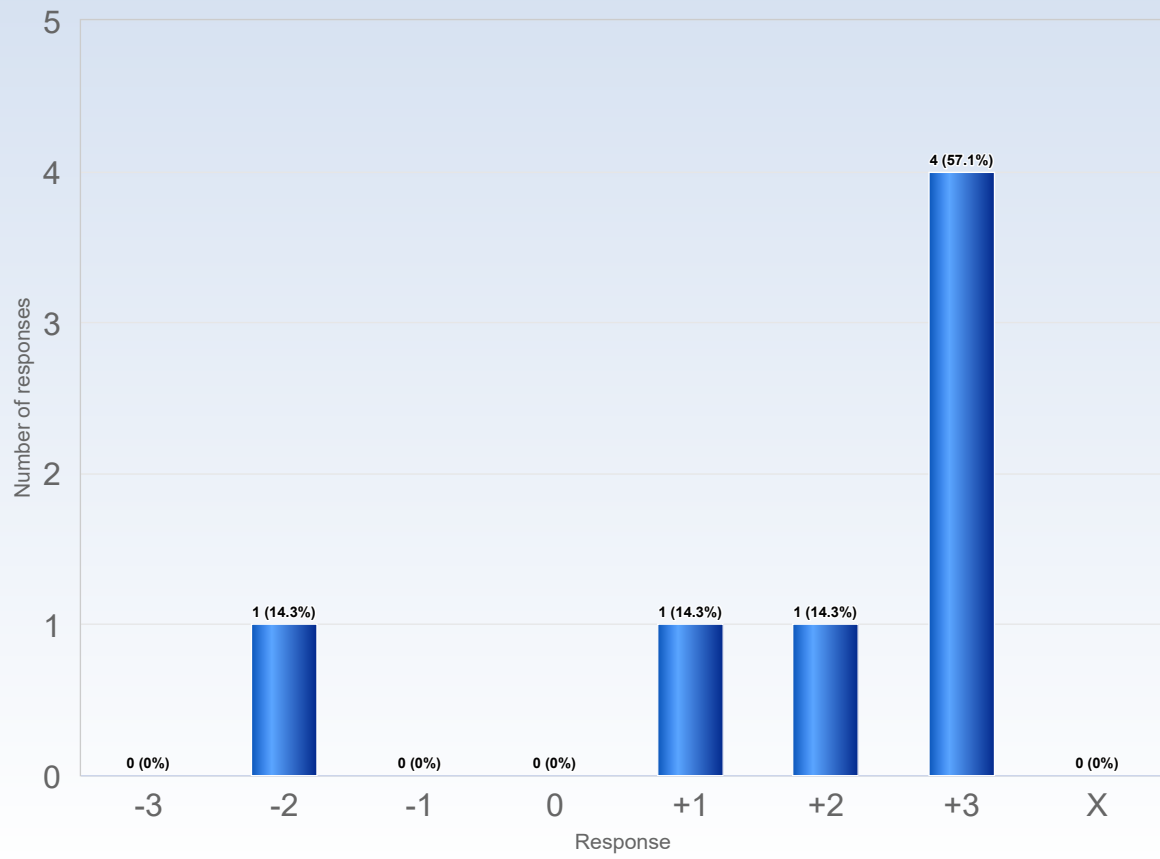


16. The assessment on the course was fair and honest

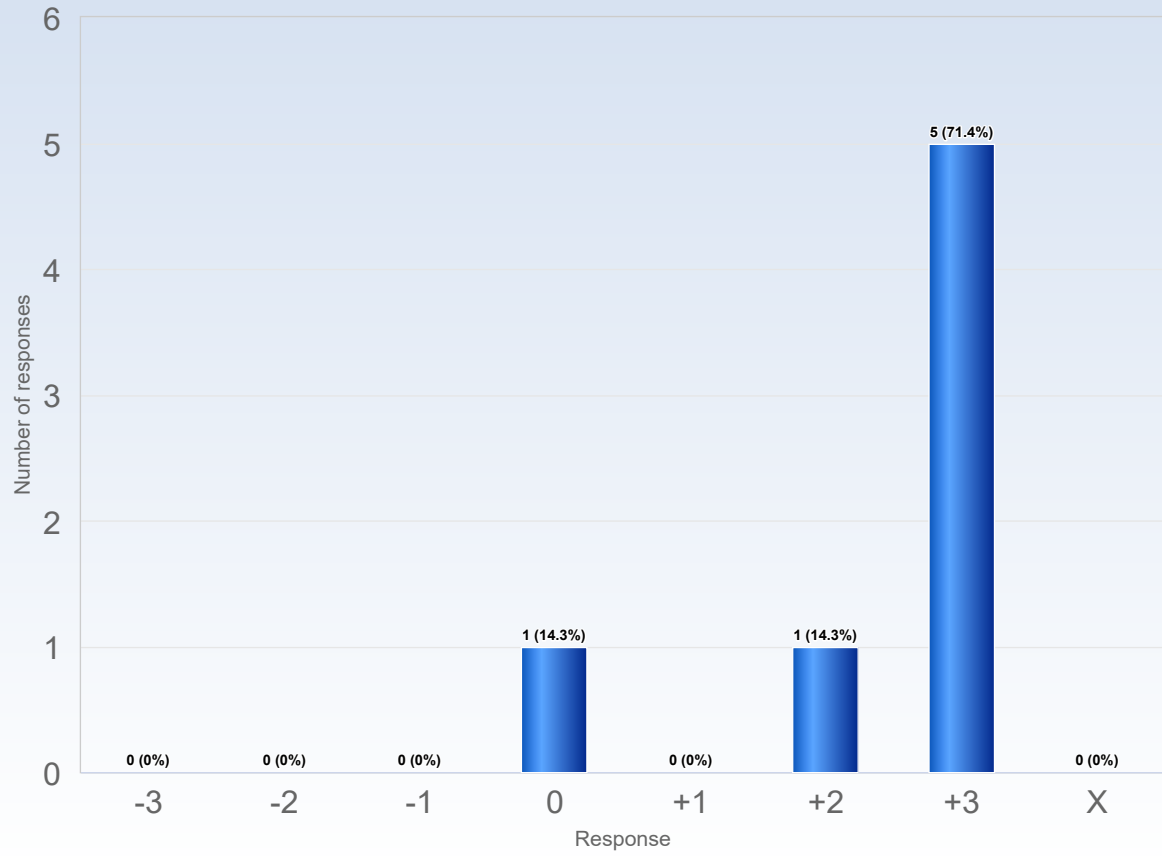




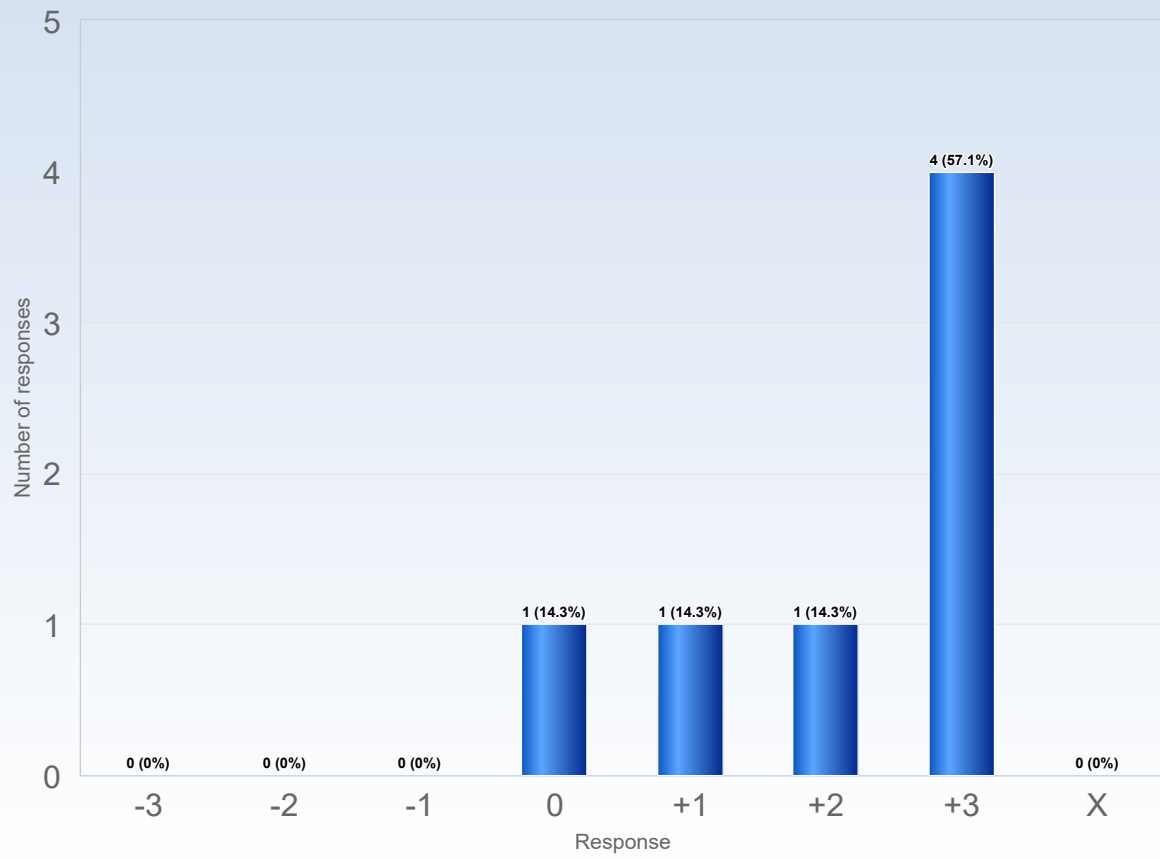
17. My background knowledge was sufficient to follow the course



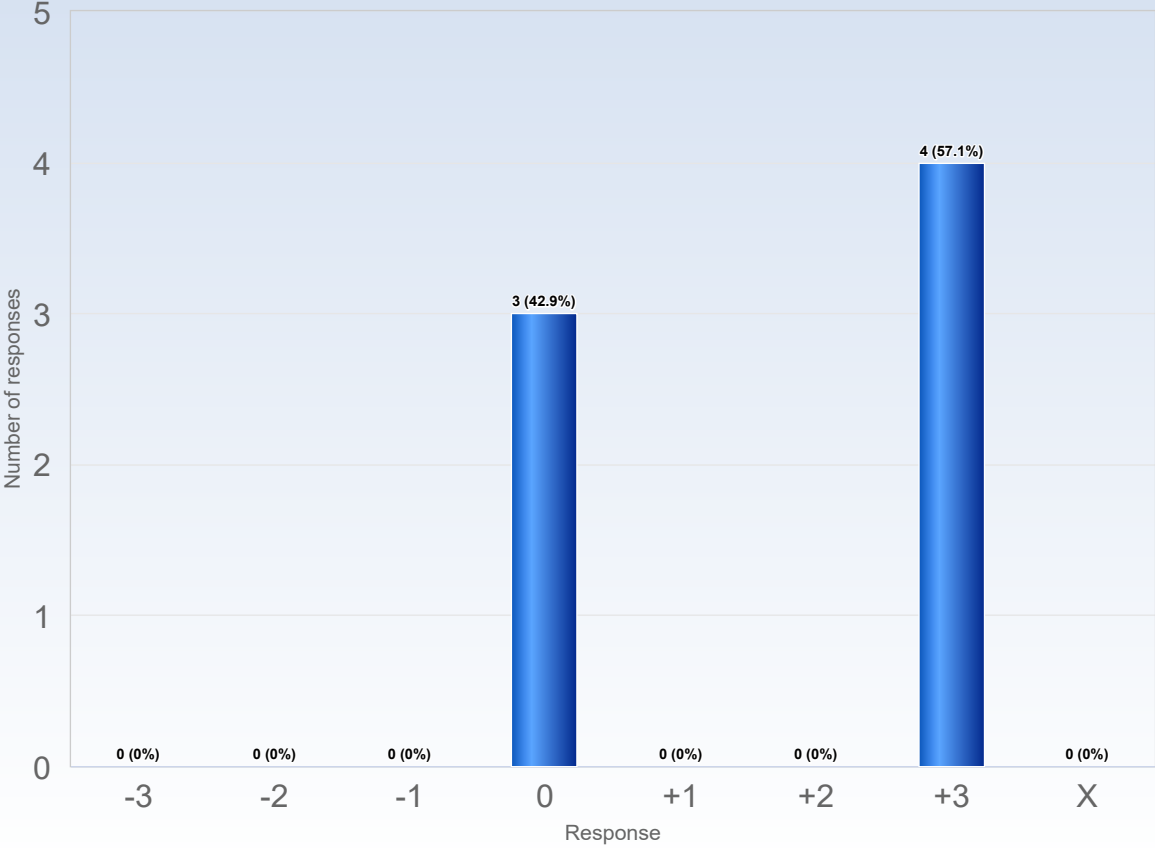
18. I regularly spent time to reflect on what I learned



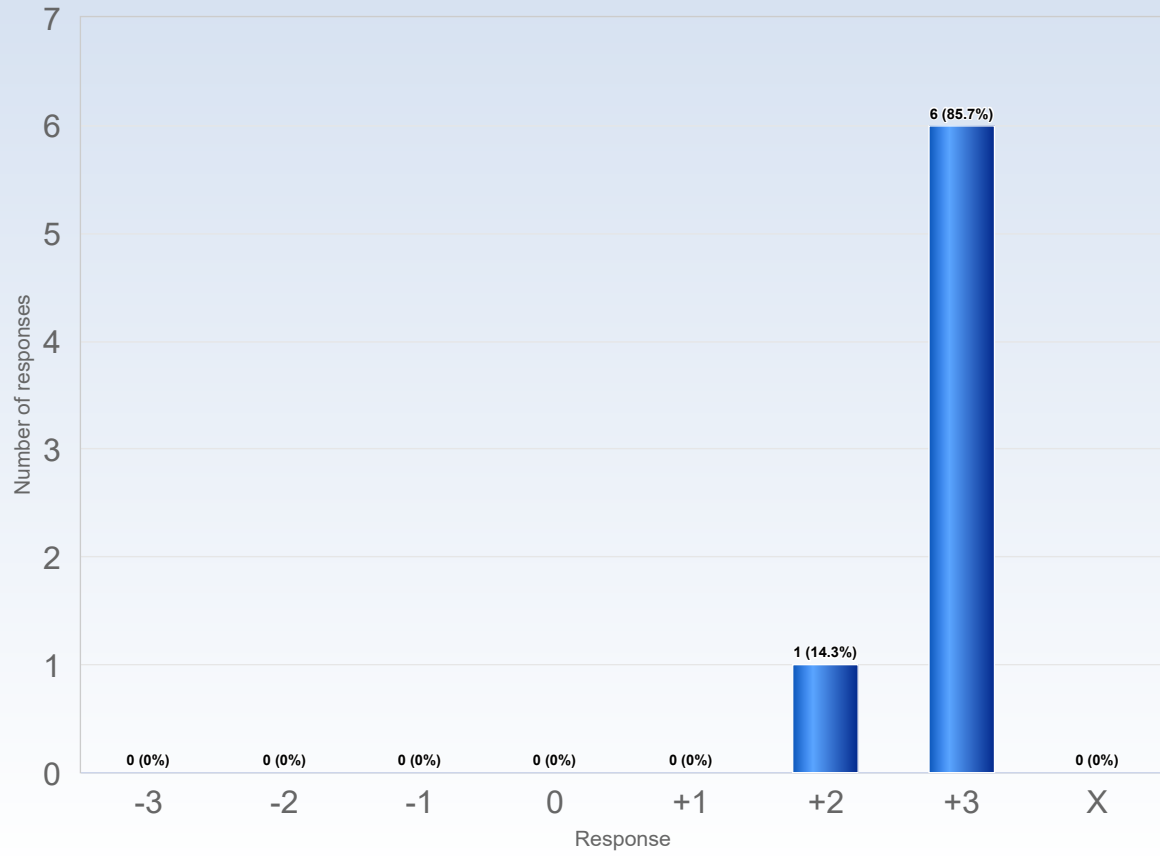
19. The course activities enabled me to learn in different ways



20. I had opportunities to influence the course activities



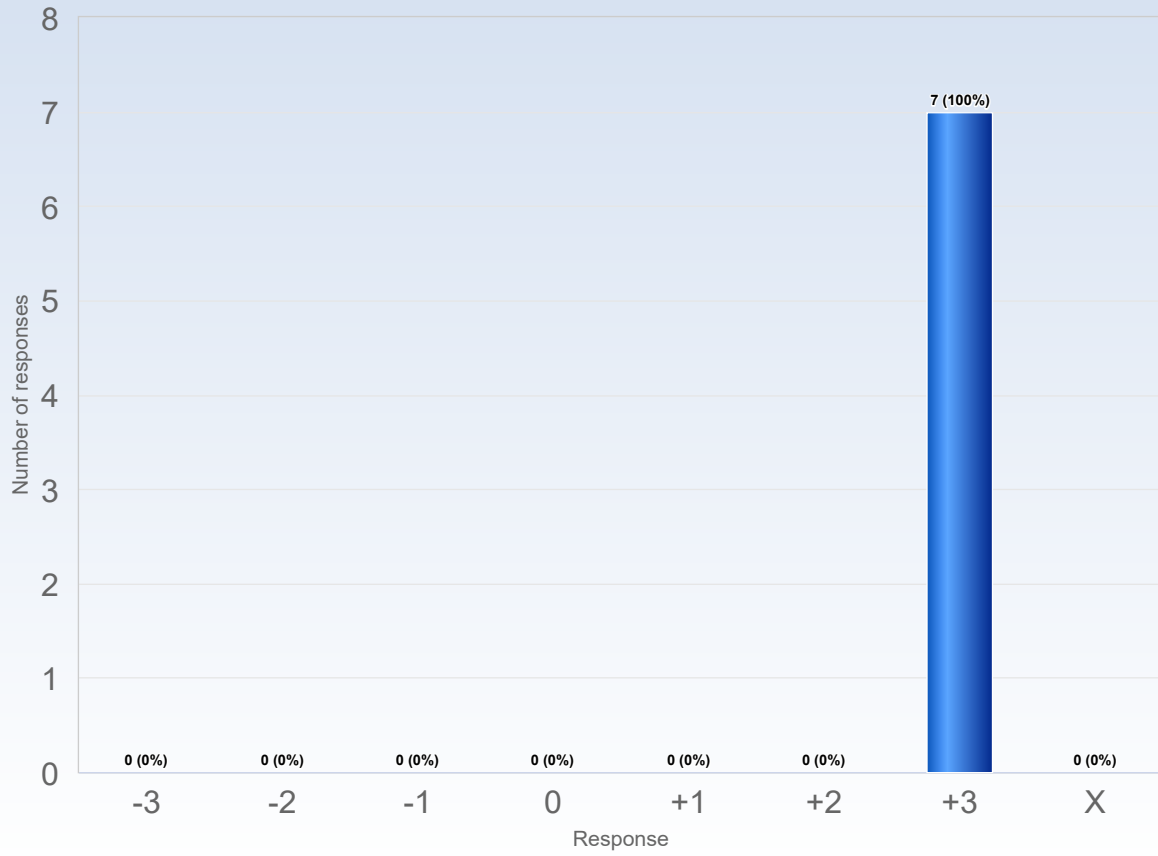
21. I was able to learn by collaborating and discussing with others



Comments

Comments (My response was: +3)  
Jätte bra att arbeta med gruppen

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



Comments

Comments (My response was: +3)

Läraen alltid svarar på frågor vi email eller telefon