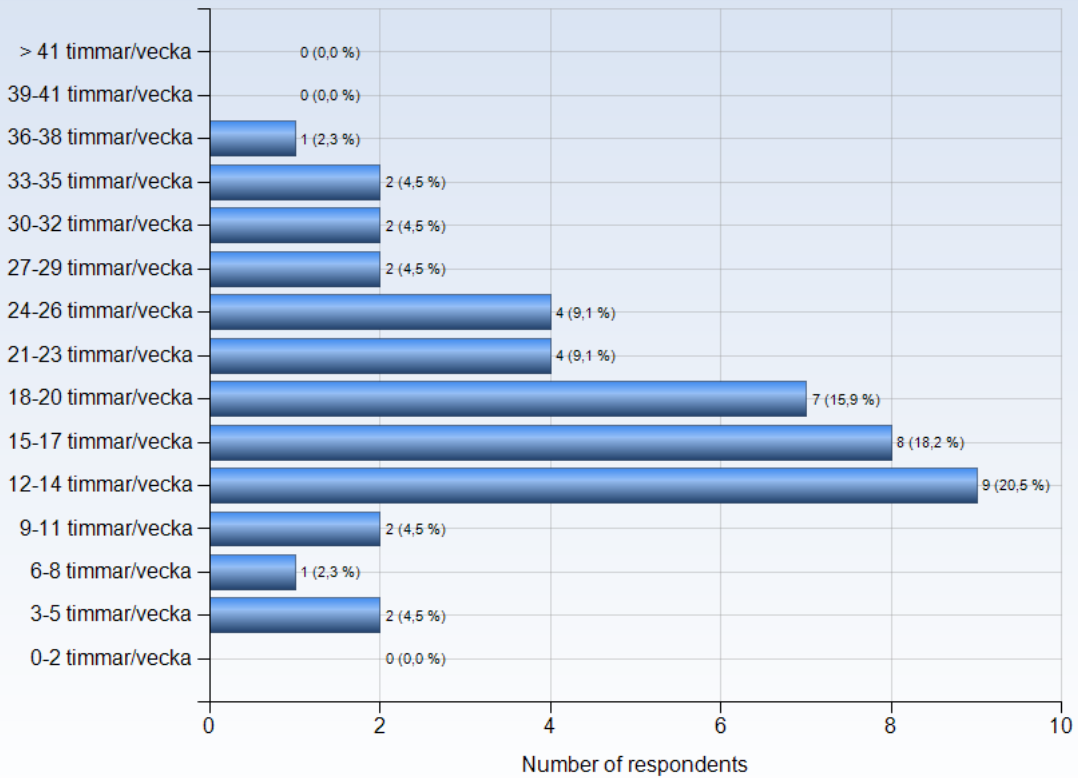# EN2720 - 2018-10-24

Antal respondenter: 114
Antal svar: 45
Svarsfrekvens: 39,47 %

ESTIMATED WORKLOAD

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

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

Number of respondents

Comments

I had a bit too much on my plate this period, so I could not put as much time on this course as I feel it deserves.

Comments (I worked: 12-14 timmar/vecka)
Good

Comments (I worked: 15-17 timmar/vecka)
We aimed for about 2 flags a week and it took about 14 hours, plus some extra time for lectures, hacking log and watching videos.
Sometimes you can spend a lot of hours, without having any result, which can be quite discouraging ...
Because of the hint system it's easier to pick your own level of ambition and manage your workload from that

Comments (I worked: 18-20 timmar/vecka)
Spent a lot of time initially without any results (flags) to show for.
Averaged out for the whole period. We completed the cyber range about halfway in and so didn't need to spend much time after that
Om vi inte hade tagit så mycket flaggor hade vi förmodligen lagt mycket mer tid.

Comments (I worked: 21-23 timmar/vecka)
The fact that the hint system makes the workload adaptable is great.

Comments (I worked: 24-26 timmar/vecka)
Often many hours could go in to just reading and learning about a certain topic or type of exploit.. Which was still interesting and eye-openinig, but could also lead to many more hours being spent on a certain flag / moment in the course.
Eftersom kursen förväntar sig att man ska tillgodogöra sig kunskap själv så kan man i praktiken lägga hur mycket tid som helst om man väljer att djupdyka i ett ämne, men för att klara kursen så tycker jag att arbetsinsatsen som krävdes var rimlig.

Comments (I worked: 27-29 timmar/vecka)
I started this course with no prior knowledge in this area. I learned everything from the start so I have to spend a lot of hours learning every week and even though I took a good amount of hints, I still had to spend hours learning because hacking is not easy.

Comments (I worked: 30-32 timmar/vecka)
The more time you spend the better. I had a lot of fun so time flew by.
The course was enjoyable, but too time consuming when considering one mandatory course read in parallell.

Comments (I worked: 33-35 timmar/vecka)
I didn't have much prior knowledge so I had to spend quite a lot of time to keep a good pace in the flag catching.
It was easy to spend a lot of time on this course some weeks probably more than 40 hours.

Comments (I worked: 36-38 timmar/vecka)
We knew we wanted to get an A in the course so we knew we had to spend quite the amount of time to reach this goal. I would say we could have spent significantly less if we had aimed at a lower grade and taken hints.

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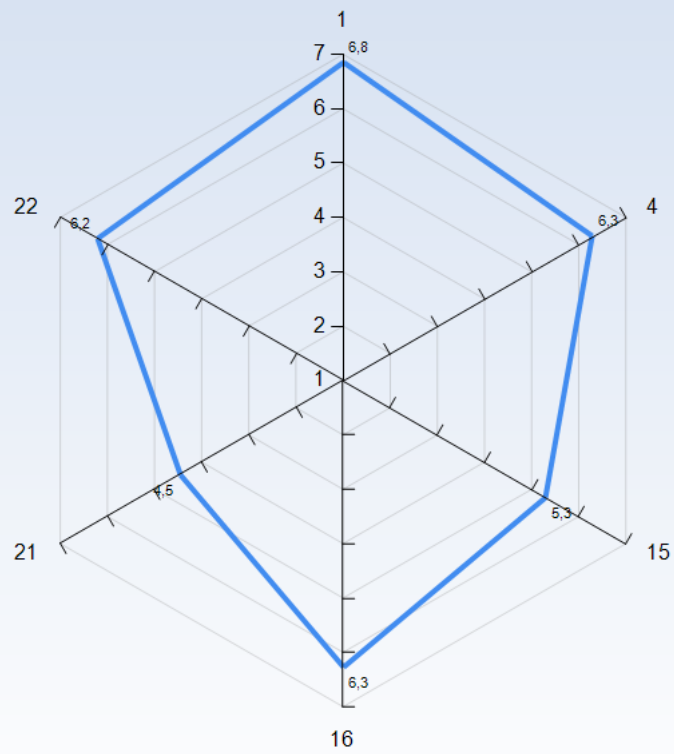
1 = No, I strongly disagree with the statement
4 = I am neutral to the statement
7 = Yes, I strongly agree with the statement

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

Average response to LEQ statements - all respondents

Medelvärde

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

Legend: Kvinna, Man, Annat, Vill ej uppge
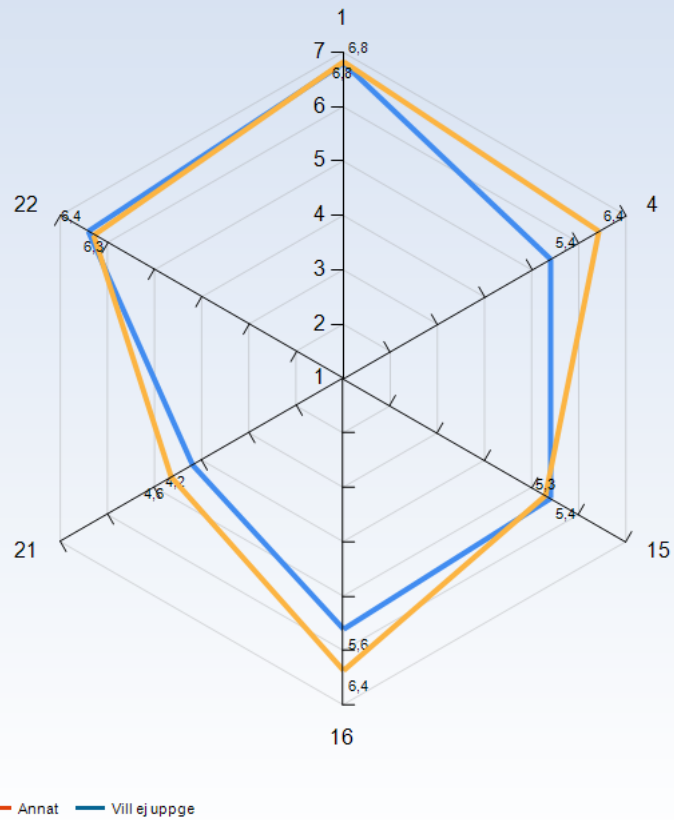
Comments

Comments (I am: Man)

Males and females had the exact same oppurtunities in this course.

I think it might be a bit easier to be a female, not in this course specifically though, but studying CS. They usually get special treatment such as invitations to companies or special social/fika/party events, just because they are girls. But I guess that's how equality is defined nowadays.

Vet inte vad jag ska kommentera här. Studenterna behandlades lika under kursen oavsett kön

Average response to LEQ statements - per type of student
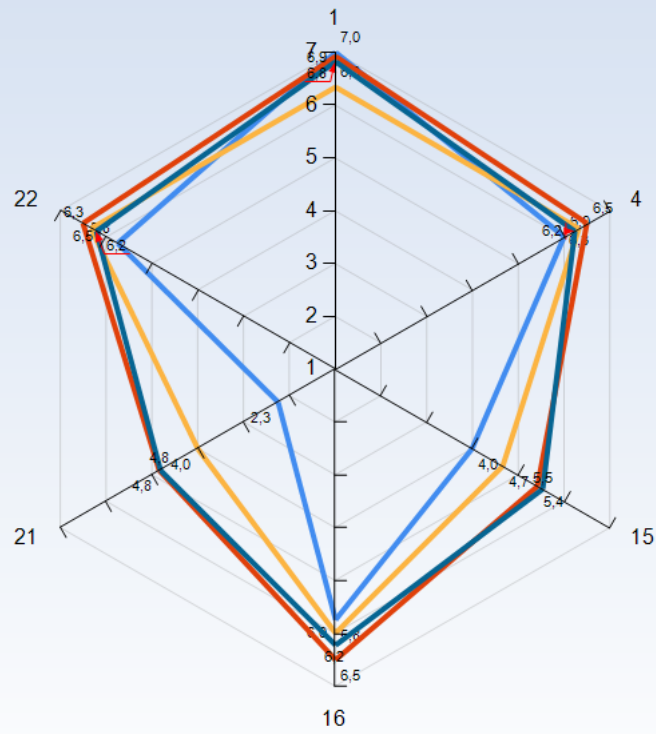
Legend:
- Internationell masterstudent
- Internationell utbytesstudent
- Svensk student i årskurs 1-3
- Svensk student i årskurs 4-5
- Annan typ av student
- Vill ej uppge

Comments

Comments (I am: Internationell masterstudent)
Some invitations/announcements were in swedish only.

Comments (I am: Internationell utbytesstudent)
Double degree student. It is really good that as a double degree student in Electrical Engineering I am free to enrol to a course that is not in my track.

| Comments (I am: Svensk student i årskurs 1-3) |
|---|
| Seen from a learning perspective I think the course suits both people studying for a bachelors degree and for a master. If you are on a lower skill level you can request more hints and use pre-programmed exploits. As a masters student you might request no hints and even write some of the exploits on your own, and then there's also the bonus assignment for the ambitious students. |
| Took this course in addition to normal studies, so I was doing 150%. A little stressful, but totally worth it :) |
| Det märktes att kursen var på avancerad nivå, speciellt när man inte hade någon tidigare erfarenhet av ämnet. Men hintsystemet var en bra lösning och man kunde lägga det på sin egen nivå/(tidsbrist..)! |
| Although I'm neither a master's student nor an electrical engineering student, I wanted to take the course because of how interesting it looked. |

Comments (I am: Svensk student i årskurs 4-5)
Excelllent course, not to difficult

Average response to LEQ statements – per disability
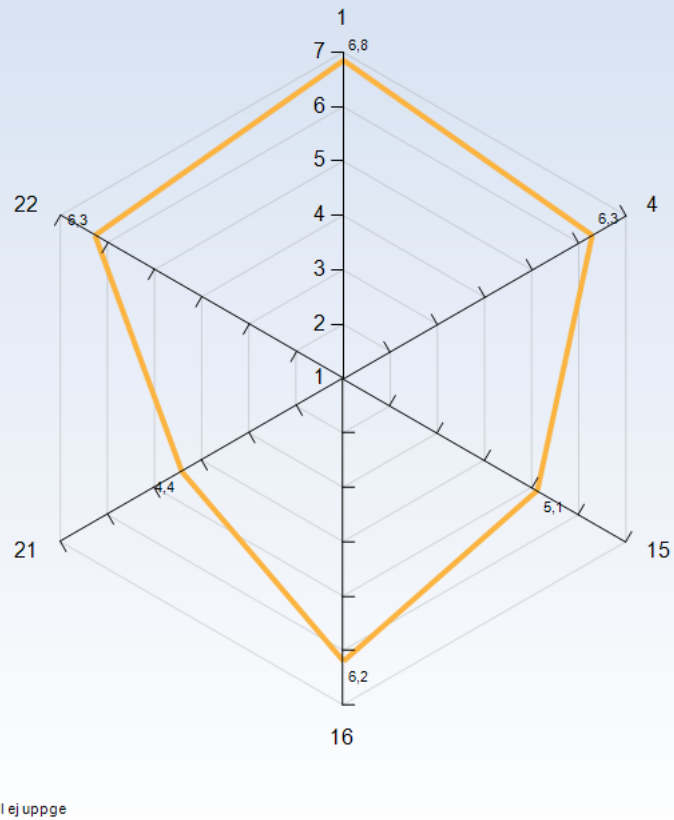
Comments

Comments (My response was: Ja)

dyslexi & add. It was alot to read in the course, I would have prefered if there were some lectures on the diffrent flag topics so you can learn from litening as well as from reading.

Comments (My response was: Nej)

Nothing to add here.

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 virtual network

Not much mandatory, could study on own

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

Working on interesting topics that were completely unknown to me.

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

The hacking project

I think the support of the teachers were great! The availability of help whenever something went wrong was impressive. Also the engagement from the teachers, with all the extra information being sent out, is really nice to have! It is fun when the teachers really care for the course.

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

The fact that the course was so free

Fantastiskt välutförd kurs med fokus på helt rätt saker. Riktigt bra arbete med intressanta flaggor som tog upp alla olika kursmål.

That it had a practical orientation regarding security and that you were working with really interesting problems.

The students were free to decide when to work

To get hands on experience

Interesting subject and you learned a lot

It was fun when it worked

The freeform format

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

The flag hunt. It was the most fun course I have taken at KTH.

That it was a big precticall project instead of theoretical talk. I like the pre-constructed enviroment and the freedom given in solving the tasks.

The "game" aspect, and that we had a lot of practice to do.

Interesting where you can spend time on the actual learning through practical experience.

I liked the fact that it was challenging and project-oriented.

The freedom and (from my point of view) realistic tasks.

It was a nice way to learn by playing a game.

Learning interesting tools

It felt real

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

Free to work whenever.

The entire project was insanely fun, definitely the best thing I've done at KTH

The free environment in practicing your skills

Intressant ämne, bra kursupplägg med att man praktiskt får testa på teknikerna istället för att sitta på föreläsningar. Bra med kontinuerliga kontakt/utskick. Engagerade, aktuella (på ämnet) och hjälpsamma lärare och assistenter. Snabba på att ta till er feedback och förbättra på direkten om möjligt. Roliga gästföreläsare!

The freedom. Both in how much to spend each week in the course but also the freedom in how to approach the different tasks.

Ämnet var intressant och man lärde sig en hel del

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

Getting flags! :D

To have a real cloud environment to work with and explore.

That the tasks felt really relevant and challenging. I also appreciated the support you got when there was a problem, the course assistants were really fast at answering.

What was the best aspect of the course? (I worked: 24-26 timmar/vecka)

The guest lectures were fantastic, and te labs were also very well made. Canvas was also perfectly integrated with the course. You have done a great job!

Att få praktiskt erfarenhet av att hacka! Dessutom gillade jag starkt föreläsningarna och de små videoklippen som fanns tillgängliga. Att rätt information blev tillgänglig efterhand var också mycket uppskattat.

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

The virtual network and that the course is very practical.

The course was made to represent reality which made it very interesting to work with.

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

The whole set up, the exercises and the teachers.

The best aspect was the thrill of not knowing anything, and finding things out progressively.

What was the best aspect of the course? (I worked: 33-35 timmar/vecka)

The flag catching process is very addictive, in a good way. Catching a flag was such a great sense of accomplishment that it made me motivated to keep studying a t a good pace through the course. Comparing with other courses there's often no such accomplishments during the courses but rather after they're finished and you get your exam graded.

The freedom of the course was really refreshing. Being able to work at your own pace and decide what you want to do next.

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

How well structured and well executed by the teacher and assistants. Very impressed with the cyber-range and the quick feedback 24/7.

What would you suggest to improve?

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

More checkpoints, so you don't have to re-do the same hacks several times a week.

Would like to be more pointed to where to look for hacks. I dont like being blind and have to look through 10's of youtube videos / stackoverflow threads to test all available solutions. One solution would be to show general hacks in lectures, e.x show metasploit

What would you suggest to improve? (I worked: 6-8 timmar/vecka)

I think that giving 0 points for flags found using the maximum hint is a bit harsh, because sometimes it is not that easy even with the video tutorials. At least 1 or 2 points would be much more encouraging!

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

I think the punishments for missing a lecture or send in a hacking log in time is unnecessarily harsh. I understand that it is to encourage people to attend/to do things in time but it felt a bit unreasonable.

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

Det enda egentligen stora problemet var att det krävdes en hel del support när maskiner i miljön gick ner av olika anledningar. Kanske går att införa någon funktion som startar om en maskin som inte svarat på sin SSH-port på 15 min eller liknande? Skulle underlätta för er och för oss studenter.

I would like to know more about the research that the course staff is doing so one or several lectures dedicated to these areas would be interesting. Also, I thought the lecture given by Jonas Lejon was not that interesting since he could not speak very much about the actual work carried out at Försvarsmakten. Perhaps he could instead talk about the work he does outside FM CERT?

All the information was under Announcments which was sometines difficult to find. Easy to miss things

it would have been fun with a final lecture that explained how the world was set up.

A lot of things got fixed during the run of the course, for example the hint system was remade and a bug was found that prevented people from accessing the network. So I think it is going to get even better next time. To improve on more is hard, because the course is very unique in that you can't really ask questions so you feel kind of alone during the entirety of the course, but that is fine

Rework the initial part of each flag so new beginners more easily can get started

What would you suggest to improve? (I worked: 15-17 timmar/vecka)

I would have liked at least one lecture about the academical aspect of all this. About how you are doing research in this area or some references to interesting papers.

First of all, some type of roadmap/method describing how to take on such an open task would be good.
Also a lecture that is a demonstration of a hack where the lecturer would share his/her thoughts while performing the hacks, and choosing methods.

Give some lectures about the bases of the different way to hack, instead of reading suggestions.

You have got to remove the blind host scanning from the course. I get the concept, but for a course with people that have limited time it is not appreciated. Nmap through proxychains takes time, scanning the whole range would have taken hours if I didn't take a hint. Why was I looking for a smb port to check if a previous user/pass combo was used somewhere else in the cyber range on another flag? It's just... I don't know not fun and just time consuming.

The renewed hint system has been a very huge improvement compared to the first version of it. However, I think that there's still some improvement margin, where you should be able to know if you are in a good path to the next flag or not. The most frustrating part for me was the scenario where I felt that I was close to one flag, but I couldn't manage to do that last step, so I kept looking for other ways to finally discover that I was just doing fine. So, some kind of way that you could know if you should keep looking in that way or not would be helpful. Maybe this could be some kind of help lectures aimed to specific topics/flags.

Keep the matrix-based hint system, I conceded many point early on the course because I was looking for hints to help me.
I would not recommend or even mention the course book, I found it completely useless.

Hint system could still be improved. I had the problem not knowing which host to expoit and took a hint to help me get started, but it didn't help, next hint didn't help either. When trying to catch flag1ffd4b. I also had the same problem with flagb62a4d so the announcement you made that there might be a backdoor from that one didn't help either.

1) Inform students about the difficulties of the flags
2) If a student gets the hint and you find that it was useless for him, give his points back.

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

Maybe make the initial flags slightly easier to get. Also make other later flags more difficult.

I really don't like sharing worlds

Refrain from giving out free hints and tips in announcements, it makes it too easy and/or confusing and disrupt the natural flow/path of the course. The course doesn't seem to be designed with those free hints in mind.

It's not entirely clear what kind of guidance is available when you get stuck. We ended up sending lots of emails and got a solid amount of guidance without having to take hints but some kind of clarification on that would be swell. In a more general sense the ability to learn without it directly affecting your grade is one of the weaker points of the course, perhaps giving X free hints or increasing the margin so you can take a few more hints while still getting an A would be good.

The only improvement I have is that the peer-reviewing deadline was very unclear, nowhere on canvas could it be found.

Som andra påpekat kanske möjlighet att diskutera med varandra på något sätt. Gällande essayn så gärna både anonym inlämning (att de som ska betygsätta en inte vet vem de utvärderar) och anonym betygssättning (att jag som författare inte ser namn på de som betygssatt mig, förutom er som lärare då kan ju vara bra att veta vilken utvärdering som är den "viktigaste").

Nothing.

Jag tycker att man skulle kunnat ha någon typ av hjälptillfälle för att sätta upp kali linux och för att få det bekräftat att man har konfogurerat allt på rätt sätt. Ett typ av system med labtillfällen där man kan ställa frågor och be om hjälp skulle också vara givande, även om de skulle innebära att man kanske får göra om examinationsformen med hints osv.

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

It felt like it was way to easy to get an E on the course as you could just request all hints. I would suggest putting the limit for E to only request 90% of the hints

Would be nice to learn how to actually write your own exploit for a given vulnerability and not only deploy exploits written by others.

Maybe even more reading material in terms of lecture notes, it was sometimes hard to get a grasp of the different subjects without google:ing for hours.

What would you suggest to improve? (I worked: 24-26 timmar/vecka)

I would like to have a summary lecture where you pressent all the different stupid things you saw us do around the network. That would be fun and interesting

Eftersom etikuppsatsen är en del av kursen borde den kanske ha en egen föreläsning. Uppsatsuppgiften behöver också tydligare skillnaden med vad som förväntas i frågan av egna åsikter kontra generell diskussion om det etiska dilemma.

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

Nothing

As a beginner I would've liked more support. You said that you didn't want to guide us through the course, but I would've appreciate more guidance in the beginning at least. Maybe some exercise before starting with the project, because the project was being graded as soon as we started and it was hard for me to improve my grade when I started from zero. Or maybe more guidance in the hints. I would like feedback every week on my hacking log. I was able to complete the course in the last few days, but I could've finished it faster if I got feedback on how it was going for me. I underestimated how hard it was and I was stuck on the same flag for 3-4 weeks, and when I finally took the last hint I had spent too much hours on it. If I didn't take the hint, I wouldn't have been able to finish the course in time. I learned a lot in those 3-4 weeks but I was too much behind schedule, which eventually resulted in me taking almost all the hints because of how much time I've wasted. So If I had gotten more feedback on how much time I had wasted for one flag, maybe if you told me it was time to request a hint, I could've finished sooner and maybe got a higher grade.

What would you suggest to improve? (I worked: 30-32 timmar/vecka)
Can't really think of anything
The initial description of hints could be a bit more descriptive in order to prevent useless hints to be taken.

What would you suggest to improve? (I worked: 33-35 timmar/vecka)
Just a minor detail, I think the pages "flag topics" and "flag dependencies" should be merged into a single document and be released from the very beginning of the course.

As a beginner I spent a lot of the initial time exploring dead ends and following paths that didn't lead anywhere because I had no real clue what to look for. Of course this is part of being a hacker but I think it's important that you get a good start in the course. The flag topics are a fair hint to help the beginner with that.
I wouldn't mind more lectures.

What would you suggest to improve? (I worked: 36-38 timmar/vecka)
There were some levels that had restrictions and therefore only one group could really hack on the hosts at a time. The second to last week of the course there were 3 groups on the "wifi-station" computer at the same time (including us) maybe don't put a "level" of flags that requires exclusivity in the end of the flags..

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)

Start on time. The announcements gives away enough info to get you in the right direction.

What advice would you like to give to future participants? (I worked: 6-8 timmar/vecka)

Start working on a regularly basis on this course from the beginning, and don't hesitate on requesting hints!

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

Make sure you have enough time to do everything. It is not impossible to get a high grade, you just need a lot of patience and time.

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

Start early with the flags they take time

Den rekommenderade läsningen är otroligt bra utvald!

Be thorough when looking for vulnerabilities, this will cost you less points in terms of hints.

Start early and take hints

start early and take hints if you get stuck for to long

Don't be too scared of taking hints when you are stuck, otherwise it is very easy to fall behind on schedule and force you to be in more of a hurry on the last flags

If you see something on the internet that might work but you don't think it will, it is worth a try.

Keep an even pace in the course so you don't have a big chunk of work at the end (when you might have exams in other courses)

What advice would you like to give to future participants? (I worked: 15-17 timmar/vecka)

Keep a steady pace throughout the course.

Get started with metasploit early, and try to grab 1-2 flags a week to maintain a good pace.

Try to make a schedule of the capture of the flags, and follow it, no matter the number of hints needed ... Otherwise, you would have to always take the last hints for the last flags, in order to finish the project!

It is a very interesting course, but keep in mind that it can be frustrating some times and requiring a lot of time if you aim to a high grade.

Start early, work often. Keep tidy notes of how to reproduce hacks. Script as much as possible.

I'm not sure i have any.

1) You are on your own. It is mostly a self-learning course and getting help from teacher will cost you loosing grade.
2) If you are not ADVANCED in security probably the course will cost you huge amount of time

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

It will be crazy frustrating in the beginning. Just read and learn. After the first 3 flags it will be a lot easier.

Skim some general purpose books and read all the readings. The readings are pretty much all on point and give more or less everything needed to complete the course. The flag topics are also very useful for not getting stuck doing the wrong thing.

Start early, especially with just the installation of the vpn setup since you can potentially run into a lot of issues there

Börja hacka i tid och var inte rädd för att ta hints. Det blev lättare när varje flagga fick ett ämnesområde men ta gärna hints ändå om du fastnar.

Spend a lot of time of learning the approaches of hacking early on, instead of just using tools blindly. Try to understand what you are exploiting.

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

Don't stress over finding flags but instead try to enjoy exploring the network. Also, request hints when you have been stuck for more than about 30 hours on a flag(I was stuck on a flag for a long time because I was looking at the completely wrong things and I wouldn't have gotten back on track without a hint).

Do not be afraid to use hints.

Don't give up without trying several strategies first, and don't be afraid to take a hint if you feel stuck.

What advice would you like to give to future participants? (I worked: 24-26 timmar/vecka)

Dont be afraid of taking hints

Börja i tid och hacka kontinuerligt. Ha en bra log av vad som gjort och hur ni tog er in på olika ställen, detta hjälper då flaggorna i kursen bygger på varandra.

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

Start hacking right away and keep believing you can find the solution on the internet somewhere

Don't be afraid of hints. I liked how the course changed with the hint system so that it was easier to request a hint that would help. I would say this is the hardest course I've ever had, so don't underestimate it! Hacking is not user friendly and it will be very frustrating from time to time.

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

Spend a lot of time hacking. You will get stuck and you will get frustrated, but you'll realize that you learn so much from struggling.

Start early. This course is a black hole in terms of time. One can easily devote his/her entire spare time to this course.

What advice would you like to give to future participants? (I worked: 33-35 timmar/vecka)

To have a collaboration partner and not be afraid of requesting hints when they're stuck. I guess it would be a good idea to make a time plan for how much progress should be done each week. If you are not able to follow that timeplan, then request a hint.

I didn't want to take any hints in the beginning of the course so I spent a lot of time at first. Then I got stuck and my paced slowed down quite a bit and I didn't spend as much time. Then I requested some hints and my pace speeded up greatly again as I was more motivated by the new flag catched. I ended up requesting a bit more hints than I probably would have needed to, had I just been willing to take some hints when I first got stuck.

Read the announcements. Also if you believe that you are right and something doesn't work, just ask the TAs and they will check.

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

Try to read before you start hacking away. The reading material actually gives pretty good hints about the context of the exploits.

Is there anything else you would like to add?

Is there anything else you would like to add? (I worked: 3-5 timmar/vecka)

I had issues with the course due to hacks simply not working, where i did the steps. This was super frustrating, and I would like you to chose more robust hacks, since this is for learning

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

It is really frustrating when the hosts dont work as intended. It felt like it wasn't working the way it was supposed to more often than it was working correctly. Which kind of destroys the purpose of the course, as I feel like we had to spend so much time dealing with that instead of actually learn the intended learnings.

Is there anything else you would like to add? (I worked: 12-14 timmar/vecka)

Best course given at KTH this far!

No

No

Is there anything else you would like to add? (I worked: 15-17 timmar/vecka)

One of the most interesting courses I've taken at KTH together with one of the best course staffs made this an excellent course, thank you.

No.

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

Absolutely amazing course, 10/10. Best course I've ever taken, both in terms of how much I learned and how much fun I had doing it.

Good course, I really enjoyed it

Roligaste kursen hittills på mänga sätt och en kurs jag inte kommer glömma. Kommer rekommendera den till alla!

Lite orelevant kanske men nu när kursen är avslutad så vore det bra om ni kunde plocka bort oss studenter ur diverse "hint grupper" som man är med i. Jag är med i en del sådana och det har "spammat upp" min Canvas sida

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

This course was awesome!

Great course!

Is there anything else you would like to add? (I worked: 24-26 timmar/vecka)

Jag uppskattade också ert koncept med hacking logs, bra att kunna lämna feedback och utvärdera sig själv kontinuerligt. Det var också kul att få se statistik varje vecka.

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

Best course so far at KTH

I'm neither a master's student nor an electrical engineering student, so this course was probably more difficult for me than most of the others. I was able to finish the course though.

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

This was the best course I've taken at KTH. Recommended it to several friends.

Is there anything else you would like to add? (I worked: 33-35 timmar/vecka)

I'd like give a special thanks to the teacher assistants for their very fast and accurate support when I ran into trouble in the cyber range. And of course thanks to Pontus for a very well made up course. It has been one of my best course experiences so far at KTH.

This was the best course that I've taken at KTH!

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

I would love to see a advanced course or deep dive in the same topics explored during this course. Offensive security is really fun.
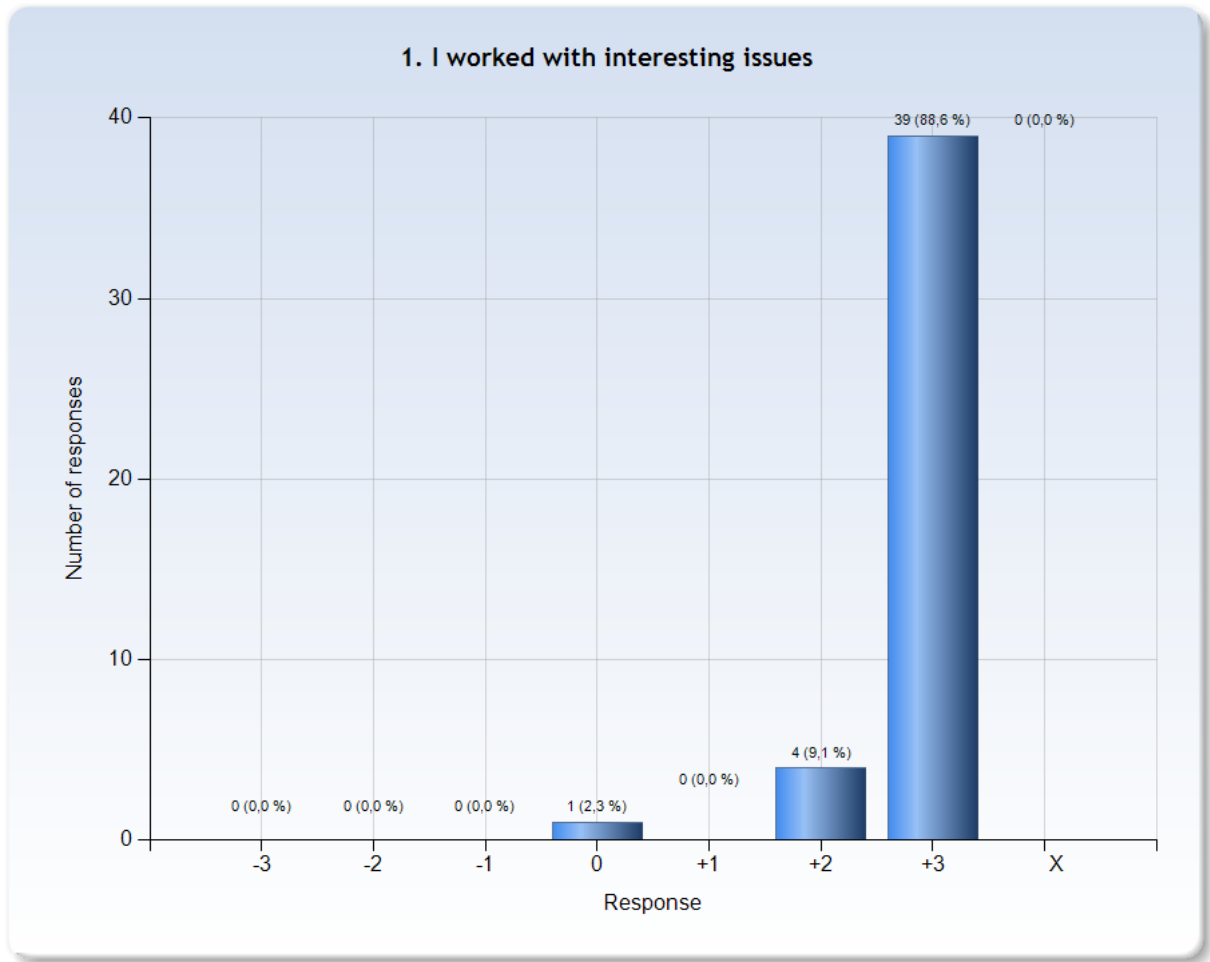
SPECIFIC QUESTIONS

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

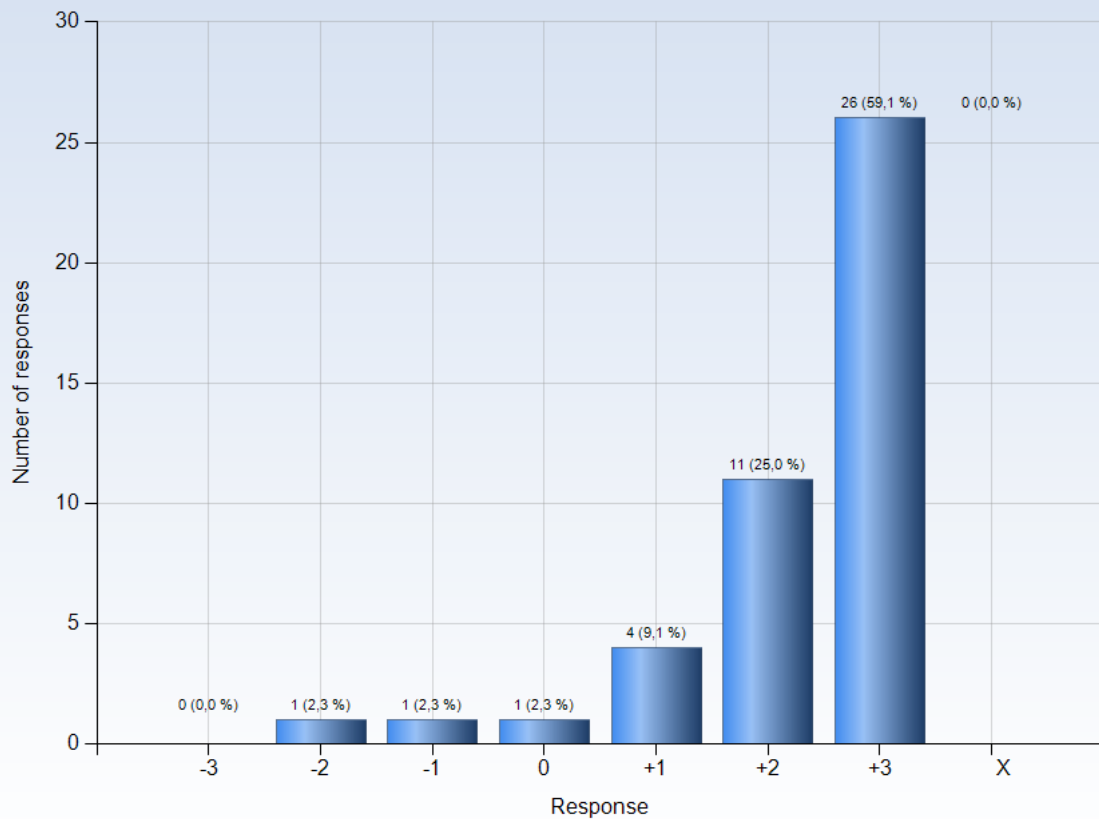X = I decline to take a position on the statement

1. I worked with interesting issues

Number of responses vs Response

- -3: 0 (0,0 %)
- -2: 0 (0,0 %)
- -1: 0 (0,0 %)
- 0: 1 (2,3 %)
- +1: 0 (0,0 %)
- +2: 4 (9,1 %)
- +3: 39 (88,6 %)
- X: 0 (0,0 %)

Comments

Comments (My response was: +3)

En av de mest intressanta kurserna jag läst under mina år på KTH

4. The course was challenging in a stimulating way

Comments

Comments (My response was: -1)
A lot of the time the challenging parts were only frustrating and not a chance to learn, as it was often related to the instability of the hosts.

Comments (My response was: +2)
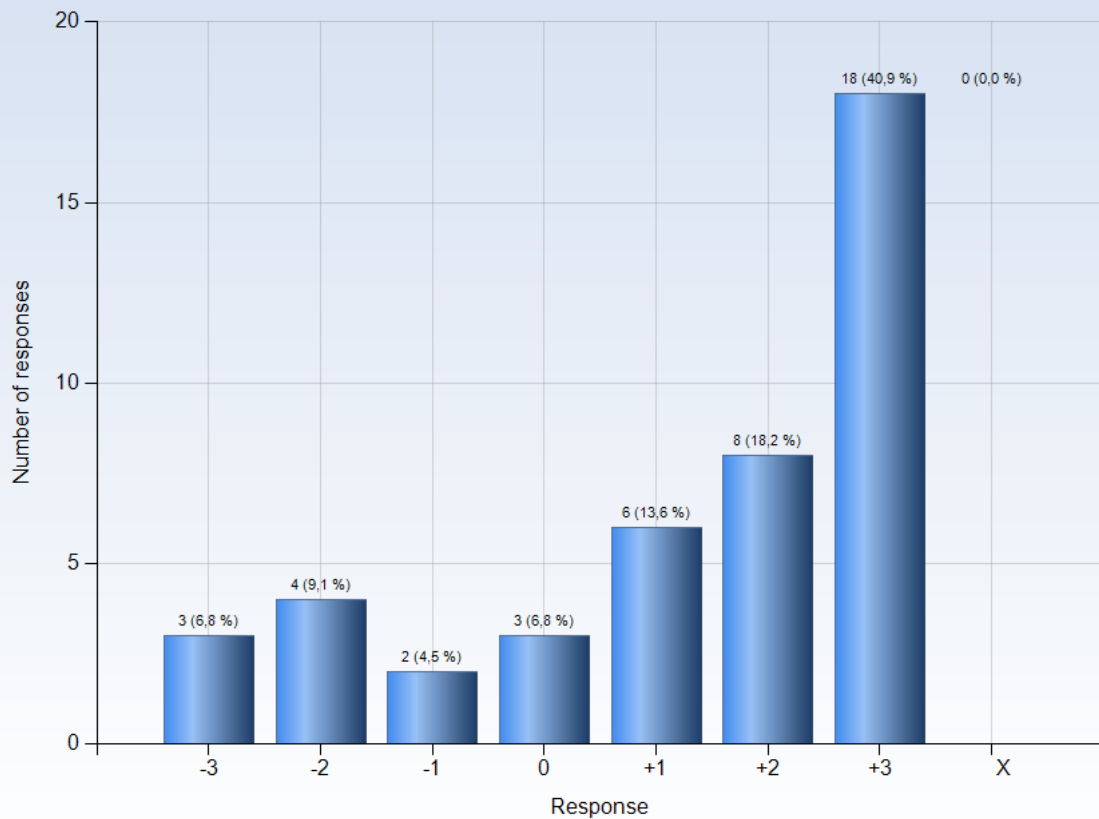At times too challenging, but overall good amount

Comments (My response was: +3)
Very frustrating course but fun!
It was one of the most frustrating courses I have taken, but also one of the most rewarding.
Mycket bra upplägg med att faktiskt få praktisera ethical hacking!

15. I was able to practice and receive feedback without being graded

Number of responses

Response	Count
-3	3 (6,8 %)
-2	4 (9,1 %)
-1	2 (4,5 %)
0	3 (6,8 %)
+1	6 (13,6 %)
+2	8 (18,2 %)
+3	18 (40,9 %)
X	0 (0,0 %)

Comments

Comments (My response was: -3)

(all work were graded)

The essay was graded without receiving feedback, which made it hard to improve.

Comments (My response was: -1)

Jag fick lite kommentarer på mina hacking logs men det var ungefär den feedback man kunde få
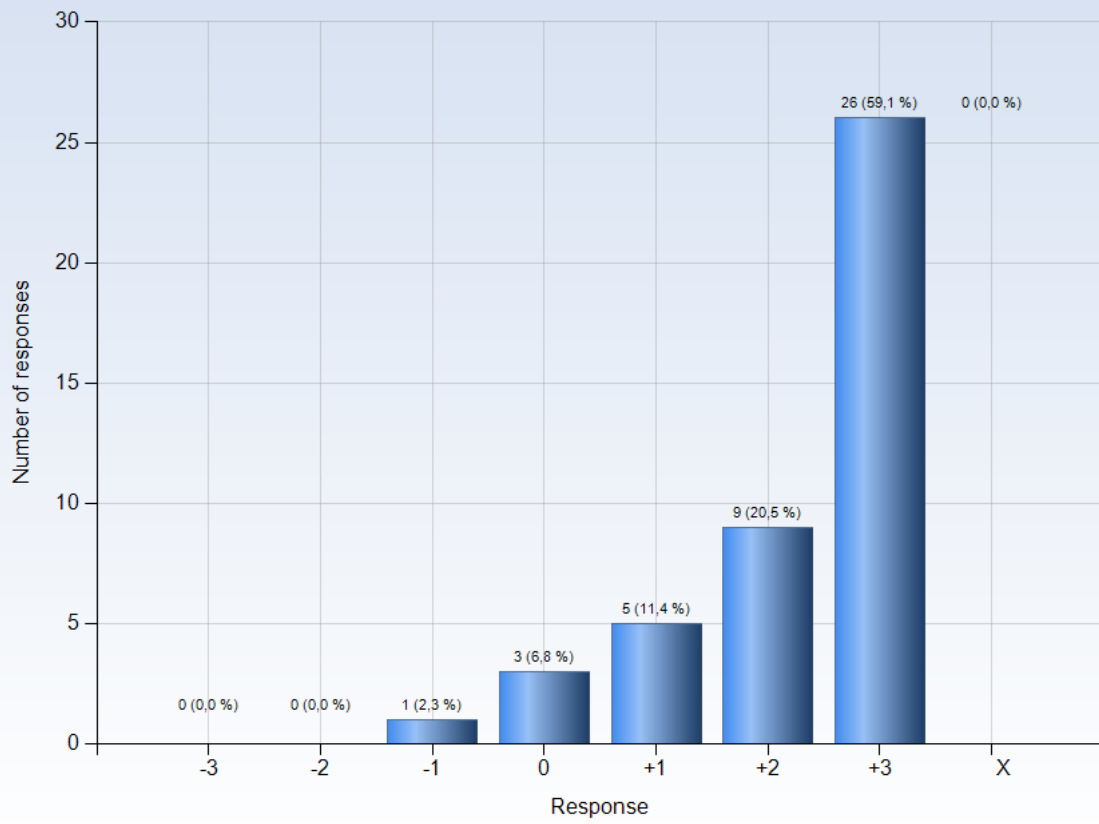
Comments (My response was: +1)

Hint system makes it a bit hard to go further without losing points towards the finalg grade, but the teachers were good about giving vague hints without docking points

Only in hacking logs weekly

Comments (My response was: +3)

Yes! Only capturing the flags counted towards the final grade
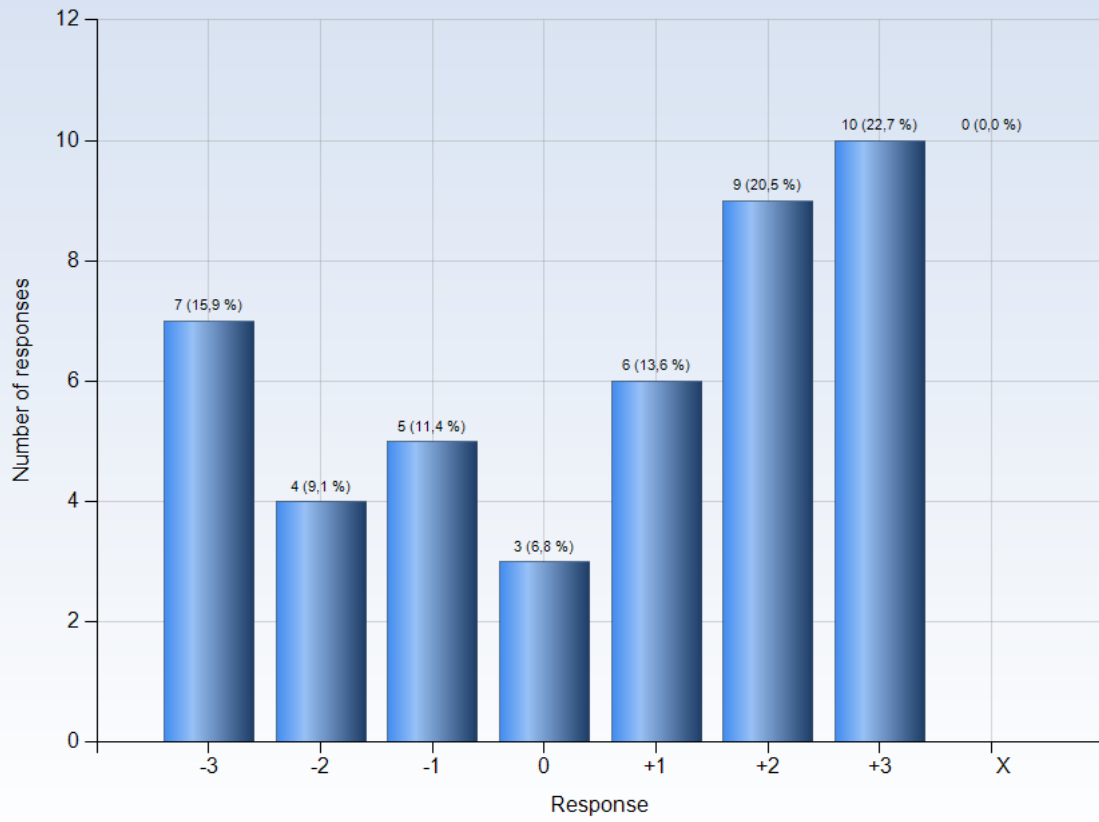
16. The assessment on the course was fair and honest

Number of responses

Response	Count
-3	0 (0,0 %)
-2	0 (0,0 %)
-1	1 (2,3 %)
0	3 (6,8 %)
+1	5 (11,4 %)
+2	9 (20,5 %)
+3	26 (59,1 %)
X	0 (0,0 %)

Comments

Comments (My response was: +3)

You knew beforehand how you would be assessed, very nice

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

Comments

Comments (My response was: -3)
I almost never met my "class"

Comments (My response was: -2)
I worked alone; it felt like communication with other groups was strictly forbidden

Comments (My response was: -1)
I decided to do the project individually, but maybe some lab session with peers looking for the same flag could be useful.

Comments (My response was: +1)
Only with my lab partner since talking between groups were prohibited
I had my partner to discuss with but nobody else. This wasn't that much of an issue
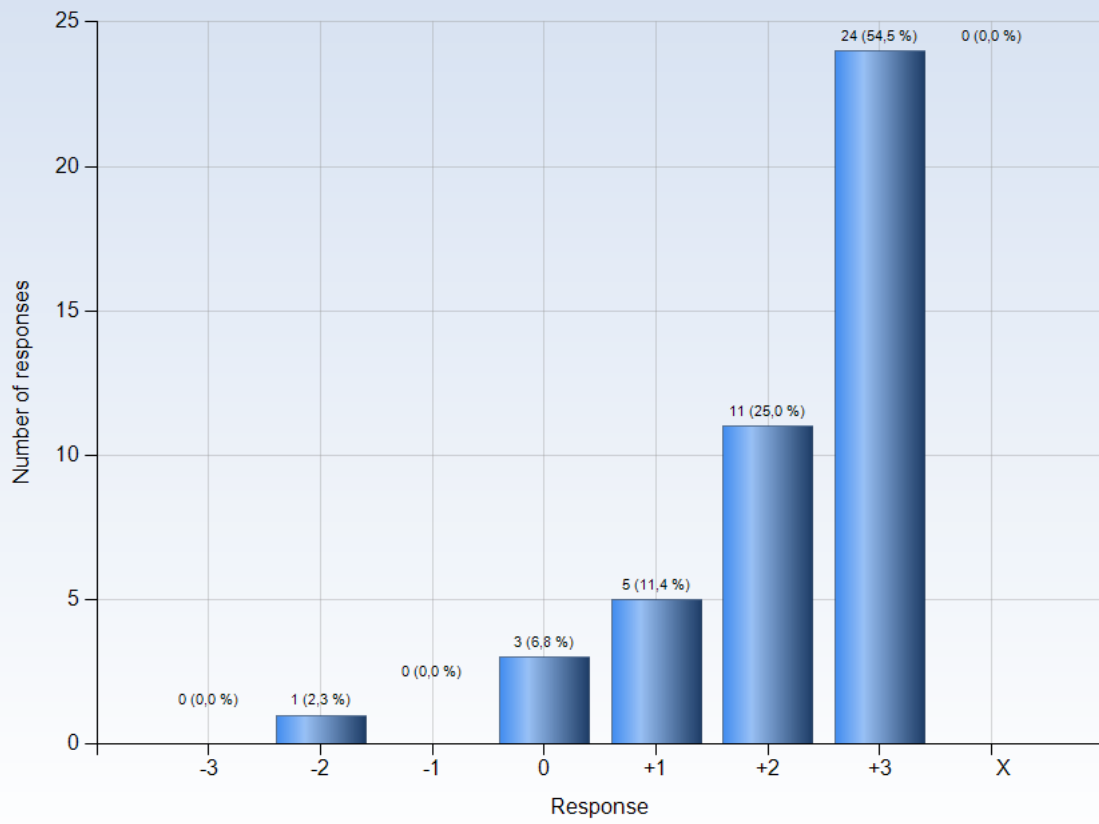
Comments (My response was: +2)
My groupmate, and we learned a lot this way.
Working in pairs was a great way to discuss different topics

Comments (My response was: +3)
Det var mycket bra att man kunde göra kursen i par

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

Comments

Comments (My response was: -2)

I think lab sessions would be helpful, where scheduled meetings with TA:s would help more than to explain the issue over an email

Comments (My response was: 0)

Yes but there was a penalty

Comments (My response was: +2)

Some help lectures could be useful

It wasn't always so that the hints helped.

Comments (My response was: +3)

The course staff was always helpfull when we emailed them and provided good assistence (or refered to the hint system when relevant)

Support from teacher and assistants was excellent

One of the best and quickes TAs I've had

The hint system is really good

Kursansvariga var mycket snabba på att hjälpa till vid behov