Report - ID1021 - 2022-11-29

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):

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DESCRIPTION OF THE COURSE EVALUATION PROCESS
Describe the course evaluation process. Describe how all students have been given the possibility to give their opinions on the course. Describe how aspects regarding gender, and disabled students are investigated.

Kursanalysen baseras dels på de svar som kursutvärderingen gav men också genom samtal med såväl övriga lärare, övningshandledare och studenter.

Antalet respondenter på kursutvärderingen var endast 15% (26 st) vilket naturligtvis begränsar dess användbarhet.

DESCRIPTION OF MEETINGS WITH STUDENTS
Describe which meetings that has been arranged with students during the course and after its completion. (The outcomes of these meetings should be reported under 7, below.)

Inga formella möten har hållits då studenterna inte utsett någon kursrepresentant.

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

Kursen har ett nytt upplägg i år där tentamen ersatts med inlämningsuppgifter. Antalet inlämningsuppgifter

Föreläsningarna har i mångt och mycket tagit upp dels de teoretiska aspekterna av kursinnehållet dels legat till grund för de övningsuppgifter som fanns.

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

Av kursutvärderingen så tycks arbetsbördan vara aningen över halvtid men det finns ett stort spann. Om man kan dra någon slutsats så är det att programmeringsvana är en viktig faktor i hur mycket tid studenterna spenderade på kursen. Det framgår också att oklarheter i uppgiftsbeskrivningarna gav upphov till extra tid vilket naturligtvis bör åtgärdas.

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?

Resultatet, om man går på betyg och antalet som klarade kursen, får anses som god. I den svenska gruppen fick 186 av 231 godkänt vilket är 80%.

STUDENTS´ANSWERS TO OPEN QUESTIONS
What does students say in response to the open questions?

What was the best aspect of the course?
What was the best aspect of the course? (I worked: 6-8 timmar/vecka)
I really likes the assignments where I had to implement the data structures and algorithms myself and where I had to solve some problems myself. This taught me more than the benchmarks.
The best aspect is that the difficulty of the assignements increased every week.
What was the best aspect of the course? (I worked: 9-11 timmar/vecka)
The form of examination. The home assignments forced you to really understand the concepts. Because you had to explain everything in writing that you did.
Assignments instead of Written exam.
Assignments are better as it takes time to understand and when you experiments.
The professor. He is very passionate and articulate, and teaches in a very entertaining way.
What was the best aspect of the course? (I worked: 12-14 timmar/vecka)
I think the general structure (or at least the concept of it, will touch a bit more on execution later) was great. This course works very well with weekly assignnents, instead of exams, and it gave a lot of hands on experience to truly understand the material and concepts of this course.
Väldigt bra föreläsare och kursansvarig. Föreläsningarna var 10/10, man fick lära sig genom att sakta men säkert lära känna de olika algoritmerna/datastrukturerna, deras problem och tillsammans med föreläsaren diskutera för och nackdelar. Man fick ofta en känsla för vad ämnet handlar om innan man går in i kod och implementation, till exempel i föreläsningen om olika sorterings algoritmer, Johan hade med sig en kortlek där han praktiskt visade hur man ska tänka så att man får en djupare förståelse innan man kastar sig på att lösa uppgifterna. Utöver de bra föreläsningarna så var Johan flexibel och förstår studenter, Johan var hjälpsam med uppgifter genom att guida och hade en förståelse för studenter när det kom till deadlines och liknande. Jag frågade om att få ändra deadline för en uppgift där jag hade en "solid" anledning och Johan gick med på det. Många andra lärare har tyvärr inte den förståelsen för studenter.
The loose structure of the assignments meant one could focus on exploring the topics in a freer way than strictly following a list of instructions. It led to explorative programming that helped me in developing as a programmer. The ability to work in more languages than C and Java was also very nice.
What was the best aspect of the course? (I worked: 15-17 timmar/vecka)
I got a lot of programming practice and learned useful things about common algorithms that I can see myself needing in the future.
Lärdomarna om hur olika koncept fungerar.
Johan seem very knowledgeable in the course subjects. Pretty good lectures. I appreciated to be able to manage my time the way I wanted, as long as I did the assignments on time.
The best part was doing the coding for the assigment
No tentamen for the final grading, only assignments to turn in each week.
What was the best aspect of the course? (I worked: 18-20 timmar/vecka)
- The assignments were interesting and fun to do
- I appreciated that the due dates were at "reasonable times" meaning that they were made in a way where you shouldn't have to work on the weekend if you didn't want to.
- Not having a final exam was great, really appreciated only having assignments
Personally i found the subject to be interesting. I liked that we got to implement the algorithms and test them out and not only analyse and write text.
I also think the professor was good and made the subject fun, and that he had a lot of knowledge on the subject. He was good at explaining the algorithms and concepts if something was unclear. He was also good at including the students in the lectures, asking questions and/or having us vote for answers etc. which made it easier to follow along.
The examination form was also nice and i believe the exercises helped a lot with the understanding of the algorithms.
Det var bra att vi själva implementerade algoritmerna på olika sätt och tog tid och skrev rapporter med frågeställningar. Det gjorde att man själv förstod och tog till sig algoritmerna och skillnad på implementationer. Lärde mer kontra om det bara förelästes om det, då hade man inte förstått på samma sätt.
Easy to get E
Programming the assignments.
The subject! And the assignments were fun.
What was the best aspect of the course? (I worked: 21-23 timmar/vecka)
Intressant ämne, spännande algoritmer, grym föreläsare, engagerande föreläsningar
I liked that we got to test a lot of algorithms during the course and the layout of one per week. The tasks were good and I felt that they introduced me to a lot of new concept.
Ingen tentamen och roligt innehåll
Kul ämne, roligt med fokus på funktion i koden istället för kringtjafs. Kul att få programmera mycket.
Kursens kursupplägg! Tydligt för studenterna då varje vecka såg nästan identisk ut så det var lätt att skaffa en rutin för arbetet.
What was the best aspect of the course? (I worked: 24-26 timmar/vecka)
Fun professor and efficient lab examinations (the lab reports).
What was the best aspect of the course? (I worked: 27-29 timmar/vecka)
The topic. Very fun and interesting to learn about algorithms and data structures.
Great flexibility and availability to work from home and to get help on campus.
Data structures were very well explained. Algorithms were described in intuitive and original way as well.
Innehållet var väldigt bra och intressant. Jag tänker på kod jag skriver på ett annat sätt efteråt. Det känns som väldigt viktigt innehåll som jag kommer att använda framöver.
I learned a lot about computer science.
What was the best aspect of the course? (I worked: 30-32 timmar/vecka)
The actual content seems like a gold nugget carefully panned out of the stream.
Having a continual tasks-and-reports instead of a lump exam at the end of the course is the way to do it. We had the opportunity to practice the concepts. A bird in the hand is worth ten theory heavy ones in the bush.
Föreläsningarna
That most of the work was independent, there was no need to go to the lectures if we just understood the assignments.
It was very entertaining and the right amount of challenging. Assignments did not feel redundant and gave great understandings on how all of the data-structures worked.
Kul att få programmera. Det var bra att början på kursen hade mycket färdig kod men som sedan fasades ut under tidens gång. Kul med en lärare som faktiskt kan något.
Bra föreläsare!
The course as a whole was really fun and I learned a lot. The lectures were really good even though they sometimes could be a bit too basic for someone who is a bit more experienced. Showing both a presentation with theory and examples as well as doing live coding was a good structure.
Good structure to not have an exam and instead have assignments.
Interesting topics
For me, the best aspect of this course is the assignments. You learn a lot more. Exercise sessions were very helpful as well.
What was the best aspect of the course? (I worked: 33-35 timmar/vecka)
Really fun content.
The topics covered were relatively interesting and the subject as a whole is interesting and I enjoyed comparing different data structures and thinking when I would implement what dara structure bases on their performance
What was the best aspect of the course? (I worked: 36-38 timmar/vecka)
That something that appeared to be very hard at the beginning turned into a good learning experience.
What was the best aspect of the course? (I worked: 39-41 timmar/vecka)
The interactive lectures, as well as the examination form (writing reports).
What was the best aspect of the course? (I worked: > 41 timmar/vecka)
Report writing.
That there was no exam.
I felt that I learned a lot, instead of studying for an exam and then forgett everything right after the exam.
What would you suggest to improve?

What would you suggest to improve? (I worked: 6-8 timmar/vecka)
I would've liked if the assignments would have been available earlier. Instead of having one week time, maybe 1.5.
In the quicksort assignment it was not directly clear that one had to compare the algorithm with the other sorting algorithms.
In the T9 assignment it could have been clearer to clearer that one had to return all possible words given a sequence.
Overall the assignments, especially the early ones, could focus less on benchmarks. Benchmarks are tedious and I didn't learn much from them. For the most time the time complexity was clear to me before I did the benchmark.
Some assignement are not very clear. Maybe clarify what need to be done.
What would you suggest to improve? (I worked: 9-11 timmar/vecka)
On a few of the assignments I had a hard time understanding what the algorithm/assignments was about. Maybe it would have helped if I attended more of the lectures, but I still think that the assignments could be explained a little more extensively. I found myself looking at YouTube alot to try to understand the concepts.
Perhaps it would be too easy if the concepts were fully explained. However harder questions could be asked about the concepts, to force you to understand at a deeper level anyways. It could be frustrating sometimes when reading the assignment document but not understanding what to do.
Better instructions, more code snippets to work from. Course book which we can use to depth:n the knowledge and take code from.
Give a bit more time for the upper-grade assignments and maybe don't run the course during the exam week. Give us a breather before the next period!
What would you suggest to improve? (I worked: 12-14 timmar/vecka)
I think that the bonus assignments being put parallell to the other assignments made some weeks too stressful, considering we have more courses running at the same time. Because of this, I didn’t do all the bonuses, which I would’ve loved to do since they seem interesting. I think that the amount of assignments should be cut down to make it less stressful and more compelling to do the bonus assignments.
Uppgifterna var oftast dåligt beskrivna. Man fick lägga ner jätte mycket tid på att bara förstå vad det är man ska göra. Jag tror att uppgifterna var byggda på ett sätt så att man , på många delar i alla fall får själv reflektera och bestämma vad man ska göra. Det tycker är dåligt när det blir för mycket, man blir ofta osäker om man har gjort rätt eller fel och får vänta tills, rättning eller tills man själv kollar upp med någon lärare. Det som gjorde detta lite bättre var att som sagt att Johan var väldigt hjälpsam och rak på sak, om man var förvirrad och frågade om hjälp så sa han direkt vad man ska göra.
Feedback was almost nonexistent. Didn't expect it to be detailed, but any constructive feedback would have been nice.
What would you suggest to improve? (I worked: 15-17 timmar/vecka)
The instructions are very poor and often hard to understand, not because the concepts are advanced but rather because of ambiguity and poor wording. The lectures were fun but also quite chaotic. While it is amusing when the lecturer needs to change his slides mid-lecture and blames it on doing it last night after 5 beers, it does also make it more difficult to follow along. I am also not really sure about the examination through writing a report every week. The report writing itself takes a lot of time. During that time I would honestly rather have learned about more algorithms than formatting latex documents.
Uppgiftsbeskrivningarna, ibland var det otydligt om vad man ska ha med och inte i rapporten, eller vad man ska mäta eller inte. Första uppgiften kom lite väl tätt inpå kursstart.
With examination based only on assignments, the primary goal for myself (and many of my fellow students as far as I can tell) was not to learn

anything but to finish the assignments on time. I would have preferred one week of theory and one week of doing an assignment. The theory could be a combination of lectures and a short pdf or other reading material about the subject. It would be great if the reading material was mixed with simple tasks to practice the theory (especially if these were very specific, designed to only practice each concept in "isolation", leaving larger projects for the assignments). Understandably, the assignments would sometime be slightly larger as some subjects from this years course may need to be merged but there were redundancy in some of the assignments (compare benchmarks to ones from a previous assignment for example) that could be stripped away. Also, there was a lot of benchmarking in several assignments, maybe some of that could be skipped as well (or given in some cases).
Also, I would like to have oral examinations, at least for some of the assignments, for the following reasons: 1. It takes less time than writing a report (at least for me), 2. It gives the student an opportunity to ask questions about parts of the assignment that might have been difficult to understand and so on. 3. It gives (to some extent) immediate feedback on the assignment from a TA or teacher.
The lack of feedback on the assignments is probably the one thing that needs to be improved first in my opinion.
I would suggest that maybe one or two of the mandatory assigments be removed
The descriptions for the assignments. Some had informal tone which does related to how the lecurer seems to hold lectures (in a good way). However, because of the informal tone, important parts of the descriptions i.e what the report should give as a final answear, becomes unclear

and complicates the writing of the report.
What would you suggest to improve? (I worked: 18-20 timmar/vecka)
- The instructions for some of the assignments were seriously lackluster, spelling mistakes and incomplete sentences that made them unnecessarily difficult to understand.
- The level of detail in the instructions felt very inconsistent, some assignments would essentially give you the solutions while others barely told

you what the task was.
- The discussion forums would have been helped by having one per assignment pre-made, it seemed like this was something that you tried to do in the beginning of the course but later gave up on.
- This is just my personal preference but I prefer having access to all assignments at the beginning of the course so that it's easier to plan your

studies, especially since some weeks we had one easier assignment but next week you might be stuck with having to deal with 2 difficult ones (this is of course dependent on the person), but this made the workload very inconsistent for me. Some weeks only needed 2 hours while some I spent 20+.
The scripts for the assignments could be improved. For some assignments there were a lot of suggestions and thoughts about the algorithm and the subject, and I had to read the whole script multiple times to understand what was actually asked for and what the task was. Perhaps highlight / write in bold some key words/questions etc. for us to better understand. I get that the prof. might not want to present a list of tasks, but maybe if the "task" was presented in it's own section and not just as a sentence in the middle of the text. And for the future perhaps a Assignment-PM or something with some answers to FAQ?
The sessions with the TA's were also good. However when we had two assignments due each week for higher grades, it would be better if maybe there were two sessions each week? Or divide it into a swe-session and an eng-session on different days and let the students decide which one to attend.
Another thing i found difficult during the course is that if one lecture was missed, there was no course litterature or documents to go back to and revise. The power point slides were somewhat helpful, but I wish there was some kind of documents or videos one could re-watch if something was hard to understand. For programming courses i understand it might be difficult to record lectures where the professor shows code, but like a pdf of lecture-notes might be good? Might just be the powerpoint from the lecture, but with some additional comments explaining what's going on.
Vore bra om den andra föreläsningen om alla algoritmer låg tidigare i veckan, då en del algoritmer var väldigt svåra att förstå. På så sätt hade det blivit enklare om ytterligare en föreläsning gavs som förklarade hur algoritmen funkade. Dessutom lite mindre uppgifter, vissa var väldigt tunga uppgifter som tog mycket tid.
Start with higher grade earlier, better descriptions for higher grade assignments, D,C,B etc
The method of evaluation. Assginment for grade B has to be handed in before one knows if one has passed the assignment of grade D. I also believe that assignments should be oppened much earlier than just a week away from the due date. Also the way lectures are planned could be improved. Tuesdays' lectures are too focused on the assignment for the week and not on the data structures in general and Friday's lectures consist simply on running code and are quite hard to follow.
What would you suggest to improve? (I worked: 21-23 timmar/vecka)
Instruktionerna till uppgifterna! De var ibland otroligt svårtolkade och behövde samarbete mellan många studenter för att tolkas korrekt. Deadlines fredag 18:00, alla har inte alltid samma mån-fre 08-17 scheman. Vissa jobbar helger, vissa jobbar vardagar, vissa jobbar nätter, och

studerar omvänt. Om rättning ändå inte sker över helgen bör deadline sättas senare i veckan, exempelvis söndag 23:59. Latex support, det var visserligen intressant att få använda sig av latex, men hade behövts mer support, speciellt i början av kursen, för att komma igång med det

ordentligt.
I thought that the task description was a bit hard to follow at times, it felt that no one had proof read them and there were a lot of faculty writing. I would also liked to have a bit more theory of algorithms that we used, or some more general theory about algorithms as a whole, a

little bit more theory than we got. Not showing the solution in the lecture, people attending the lesson could be done a lot quicker than the rest since they got the solution showed to them and they did not even have to learn. And I felt that the tasks for higher grade should not be an entire new task since it would have been better if they were built on the tasks for E.
En del stavfel i uppgifterna och tydligare på vad som man bör ta med i sin rapport
Tydlighet i uppgiftsinstruktionerna, rapportkraven.
Ha inte engelska och svenska övningen samma tid. Skulle vara bättre med två övningstillfällen.
What would you suggest to improve? (I worked: 24-26 timmar/vecka)
Some of the assignments descriptions. It would be appreciated if it is possible to clarify some labs a bit more.
What would you suggest to improve? (I worked: 27-29 timmar/vecka)
Make clearer assignments. More structure in them so it is easier to follow, read and understand.
Each assignment should have a more general structure.
Don't give us assignments with an unreasonable time frame to finish them.
Focus on the algorithms and data structure. Get rid of all the weird writing your own benchmark. It is not a course about benchmarks. Have pre-made benchmarks for the student to use.
I would recommend to have course literature for this course since it would stimulate and improve student's work, creativity and writing even further.
Antalet inlämningar måste bli färre, eller så behöver inlämningarna bli mindre. Till exempel:
- Ta bort delar av uppgifterna där man ska implementera en ineffektiv lösning. Ibland var denna lösning något man ibland använder av olika anledningar, och då kan det finnas anledning att ha kvar det i uppgiften. I andra fall, som med att hitta kortaste vägen, gjorde man helt ineffektiva lösningar som inte var användbara alls
- Om de dåliga lösningarna måste vara med för att kunna jämföras med de bra, ha de dåliga lösningarna färdiga och skicka det med uppgiften, och låt studenter implementera de användbara lösningarna och göra jämförelsen
- Ge ett kodskelett och låt studenter implementera endast de delar av koden som är relevanta för kursen för att spara tid
- Ändra redovisningsformen (på vissa uppgifter i alla fall) till att vara mer som labbar som man redovisar, för att spara tiden det tog att skriva rapporten
Det är också viktigt att instruktionerna för uppgiften blir tydligare. Jag tycker att uppgiftsbeskrivningen borde delas in i två TYDLIGA delar: en teori-del och en där det står vad uppgiften är. Att ha det blandat gör att man lätt missar någon del av uppgiften att ha med i rapporten, speciellt

om beskrivningen är 7 sidor lång.
Would have liked more support with the coding. Not only by being able to ask TA, but more tutorial like study material.
What would you suggest to improve? (I worked: 30-32 timmar/vecka)
Someone other than the author should take an editor's pen to the assignment formulations. They were ill constructed, poorly laid out, full of poorly misspelled English. I took to severely editing them for my group of collaborating students and could more often than not redact entire paragraphs without changing any semantics. Considering the fact that grading was based on writing reports (in itself fair) I'd say the assignemnt instructions were de-motivational and couldn't be held as a standard to aim for.
Kanske lite lugnare tempo på rapporterna. Kanske nöja sig med en 5st istället för 10st. En varje vecka var hårt!
Maybe more and more varied assignments, especially for higher grades, maybe two submissions for a higher grade instead of one.
Make the instructions for the assignments clearer. I was very uncertain what parts of the assignment were instructions and what were tasks. And due to some graders being more strict than others, I often ended up doing unnecessary work because the distinction between the two was not clear.
Also, please do not have 2 assignments in the first week. Starting with two assignments where the deadline is the next day (or 2 days from when you're given it), caused unnecessary stress for very little benefit.
Lite tydligare uppgiftsbeskrivningar. Ibland hade man ingen aning om vad som efterfrågades. Tydligare krav på vad som ska vara med i rapporterna.
Tydligare och mer renskrivna uppgifter.
The assignments should be more equal in size, especially the heap took extremely heavy and took 7 whole days to do.
The number of assignments was also a bit too many, some of them could be combined for next year.
Benchmarks need to be explained way more in the beginning, because doing trial and error with benchmarks, in the beginning took a lot of time. Especially since benchmarks vary so much from computer to computer, then it is hard to compare your results early on in the course.
The instructions for the assignments were at many times unclear, often due to spelling and grammar mistakes.
There should be more lectures weekly .
What would you suggest to improve? (I worked: 33-35 timmar/vecka)
The instructions, mostly illegible. Could not understand what to be done most of the time and had to ask friends. Also unclear what to do to pass (using LATEX correctly yes, and doing some benchmarks), but then filling out the 4 pages was a bit difficult. Better to have instructions as points than rows upon rows of text and ‘maybe’ do this.
The assessment structure. Maybe have some leniency when it comes to failed assignments. Perhaps having 1-2 failed assignments out of the 10 mandatory assignments would give an Fx and a second chance would be offered.
What would you suggest to improve? (I worked: 36-38 timmar/vecka)
The first week. It was unnecessary harsh. The sentence: "Than you come back next year" made it even harder. Also, that sentence was hovering over us during the whole course, like a bad omen. Reality was not as bad as it was presented, so a lot of unnecessary stress could have been avoided. Relaxed and motivated students learn more eager.
Also, there should be more exercises and the assistants should be better prepared. It happened sometimes that some of them did not even read the assignment, let alone did it.
There should be a chance to pass the assignment(s) in some sort of buffer period (maybe during the last week plus during the re-exam weeks)

. This way we felt like we are in constant danger of losing the whole year immediately if we fail only one assignment or if we get sick for a week

of two or if whatever else out of our control happens.
The course should be available in Canvas more than only few days before the beginning of the period.
Maybe avoid "size matters" as a title of the part of the assignment.
What would you suggest to improve? (I worked: 39-41 timmar/vecka)
Clearer assignment instructions, as a lot of time was consumed by trying to deciphering what exactly is expected/required.
What would you suggest to improve? (I worked: > 41 timmar/vecka)
Literature. Seminars for discussions instead of exercise classes
The workload was high but it is worth it.
What advice would you like to give to future participants?
What advice would you like to give to future participants? (I worked: 6-8 timmar/vecka)
Start the assignements on Mondays and not on Fridays like I did.
What advice would you like to give to future participants? (I worked: 9-11 timmar/vecka)
write as much as you can, cause you will be writting alot
If you really want to know how it works, pick C++. Java with its JIT and other tricks will make it a little harder to truly understand the complexity of the algorithms.
Also, with C++, you can always disassemble your compiled binary to see if anything was optimized out.
What advice would you like to give to future participants? (I worked: 12-14 timmar/vecka)
Never be afraid to ask questions if you don’t understand everything completely. Chances are that someone can help you, or someone has the same issue and a conversation can be struck up to understand the problem together.
Gå på föreläsningarna. Visst finns det hur mycket som helst på internet om det som gås igenom, men föreläsningarna är mycket mer givande till just de uppgifterna man får, man får också chansen att fråga om det är något som man inte fattar direkt. Jag lyckades gå på alla föreläsningar (förutom sista halvan av sista föreläsningen) och lyckades att få ett A utan några större svårigheter.
Start straightaway and just keep coding. The first week or two will be hard but after that you will have learned a lot and it will be much easier. Also remember to reuse code as much as possible. Rewriting everything from scratch is just wasted time. You can generally keep things like benchmarking functions and classes like nodes and their associated methods as they will get reused.
What advice would you like to give to future participants? (I worked: 15-17 timmar/vecka)
It is very important to grasp the basic concepts of the language you work in. I think that I would have struggled a lot if I was not used to working in Java, and I know several of my peers were quite clueless when it came to things such as interfaces, which they arguably ought to be familiar with already.
Vänta inte med uppgifterna.

Make sure to keep up with the assigments
A lot of websites like youtube illustrated the conecept discussed in this course, go to lectures, ask others for help if neccessary.
What advice would you like to give to future participants? (I worked: 18-20 timmar/vecka)
Use the discussion forums if you get stuck and as always start with the assignments as soon as possible. Also for plotting data pgfplots is great as long as you're not plotting more points than latex can handle in memory when compiling.
Look at the task before the lecture. This really helped my understanding during the lectures.
And don't procrastinate and start with the tasks as soon as possible.
Gå på föreläsningarna och börja tidigt med uppgifterna.
Go to lectures! :D
Learn java before you go into the course. As all the classes are explained in java, if you don't know much of this programming language you might struggle.
What advice would you like to give to future participants? (I worked: 21-23 timmar/vecka)
Börja direkt, deadlines varje vecka, så se till att vara igång från början. Tolka uppgiften så gott du kan, läs igenom allt och skriv dig en lista på vad du behöver göra i vilken ordning för att lösa uppgiften, och börja först med uppgiften därefter. Mycket lättare att klara av uppgiften då man har en helhetsbild om vad man ska utföra, samt en färdig lista att jobba sig igenom för rapporten.
Make the most out of the courser, try to do the higher grade tasks since they are great
Gå på föreläsningarna och läs igenom uppgifterna nogrant
Våga fråga när du inte förstår.
What advice would you like to give to future participants? (I worked: 24-26 timmar/vecka)
Work together with others!
What advice would you like to give to future participants? (I worked: 27-29 timmar/vecka)
Take this course at a different school.
Only take this course if you are only taking this one course.
Skip the lectures and only look at things online.
Don't focus too much on how your report is. Just make sure you understand the assignment and have correct benchmark.
Play around in LaTeX early on and get used to it.
Pay attention to what is asked from you. You can of course indulge in details but it could be better to simply spend time on task at hand. If you need more information don't be afraid to ask professor, ask fellow students that take this course or do a research of your own. Sometimes, tasks can be frustruating because of programming language or because you didn't understand task at first. Don't be afraid and keep moving on with the task later, take a break, do work on other stuff you have and then come back with clear head and tackle the problem again.
Föreläsningarna kan vara bra att gå på för att förstå uppgiften, när den känns oklar. Gör uppgifterna så mycket i förskott som det går.
Samarbeta med andra för att förstå instruktionerna.
What advice would you like to give to future participants? (I worked: 30-32 timmar/vecka)
Jump in on an interpretation early, get going practically. If you get stuck on anything, remember that search engines are there for you.
Börja med uppgifterna i tid!
Start the assignments as soon as they are available.
Start with the assignments early and do a little here and there, instead of large sprints at the end. You'll learn more and you're given more time

to ponder and understand the concepts.
Get started with assignments asap!
Sätt igång direkt. Får du en bugg som du inte lyckas lösa direkt kanske du missar deadline. Vissa saker tar tid att förklara i rapporten. Hjälps åt.
Sätt igång direkt, plugga och diskutera med andra! När man fastnar underlättar det mycket att diskutera.
Start early and be on time with all reports, not submitting it at the last second. Because if a harder assignment comes the next week then you want to have as much time as possible.
Discuss with other students and help each other out instead of just doing everything by yourself and getting stuck at a bug for hours on hours.
Focus on assignments.
Start from the very first days as you have deadlines.
Work in groups.
What advice would you like to give to future participants? (I worked: 33-35 timmar/vecka)
Work in teams.
This is a challenging course. Expect to put a lot of work into it
What advice would you like to give to future participants? (I worked: 36-38 timmar/vecka)
Repeat the course topics in Java (or whatever language allowed by the course you use) before the course start. Talk to the previous generations, ask for advice, get informed about the course structure. Get familiar with Latex. When writing the reports during the course, use the template provided by the teacher.
What advice would you like to give to future participants? (I worked: 39-41 timmar/vecka)
Attend classes, as they cover relevant theory in an interactive way. Also, utilise the forum for questions. The lecturer is very active in responding.
Is there anything else you would like to add?
Is there anything else you would like to add? (I worked: 9-11 timmar/vecka)
It was a great course where I got a lot better at coding and understanding the algorithms concepts.
Only my gratitude for this amazing course.
Is there anything else you would like to add? (I worked: 12-14 timmar/vecka)
No
Is there anything else you would like to add? (I worked: 15-17 timmar/vecka)
Fun course with a clear direction, albeit confusing instructions and noticeably rushed. Will probably be a lot better next time around.
no
Is there anything else you would like to add? (I worked: 18-20 timmar/vecka)
No :)
Is there anything else you would like to add? (I worked: 21-23 timmar/vecka)
Bästa och roligaste kursen jag haft! Såg fram mot denna kurs och den har inte varit en besvikelse. Det var detta jag ville plugga när jag valde programmet. Finns förbättringar, men även om den förblir oförändrad så är det en fantastisk kurs med en stjärna till kursansvarig och föreläsare. Om nu alla kurser i programmet kunde vara lika engagerande och entusiasmerande så skulle detta program vara det bästa i Sverige, och tankar på att se sig om för annat försvinna.
Lite många uppgifter
Is there anything else you would like to add? (I worked: 24-26 timmar/vecka)
Thank you for this course.
Is there anything else you would like to add? (I worked: 27-29 timmar/vecka)
Fix this course. It is such an interesting and important subject it's such a waste that it was so bad.
Is there anything else you would like to add? (I worked: 30-32 timmar/vecka)
I wish the lectures had had more of a structure to them. They often seemed improvisational. Halfway through the course I realised my actual useful notes from them were less than a page long and so I stopped going.
Överlag en rolig kurs! Gillar den nya approachen på kursen även fast tempot var för högt, hoppas bara jag klarar av att ha lite tur med matten nu.
For me, personally, it would've been much better if the higher-grade assignments were all given a due date at the end of the course so you could work on them whenever you had the spare time. Having to do 2 assignments each week because they both got locked by the end of it was very stressful and even caused me to miss two of them which felt awful because I know I could've done it, given enough time.
No .

SUMMARY OF STUDENTS' OPINIONS
Summarize the outcome of the questionnaire, as well as opinions emerging at meetings with students.

En summering av 26 svar är kanske inte så meningsfullt. Det finns många positiva kommentarer och förslag på hur kursen kan förbättras. Flera har kommenterat att uppgifterna var svår att förstå och ibland inkluderade saker som inte var det mest effektiva sättet att lösa problemet med. Önskemål om flera övningstimmar har också kommit under kursens gång och det är någonting som man bör se över.

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.

Att gå från tentamen till inlämningsuppgifter tycker jag har fungerat om än med problem. Antalet inlämningsuppgifter vara kanske i överkant och speciellt för de studenter som även gick för de högre betygen. En revidering av uppgifterna: antal, fördelning och formulering, måste ske inför nästa kursomgång.

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?

Den största skillnaden är programmeringsvana som för en stor grupp studenter är för låg. Det är iofs inte så konstigt eftersom de, även om detta är en kurs det andra året, inte har mycket programmeringskurser det första året i sitt program.

PRIORITIZED COURSE DEVELOPMENT
What aspects of the course should be developed primaily? How can these aspects be developed in short and long term?

Genomgång av inlämningsuppgifterna.

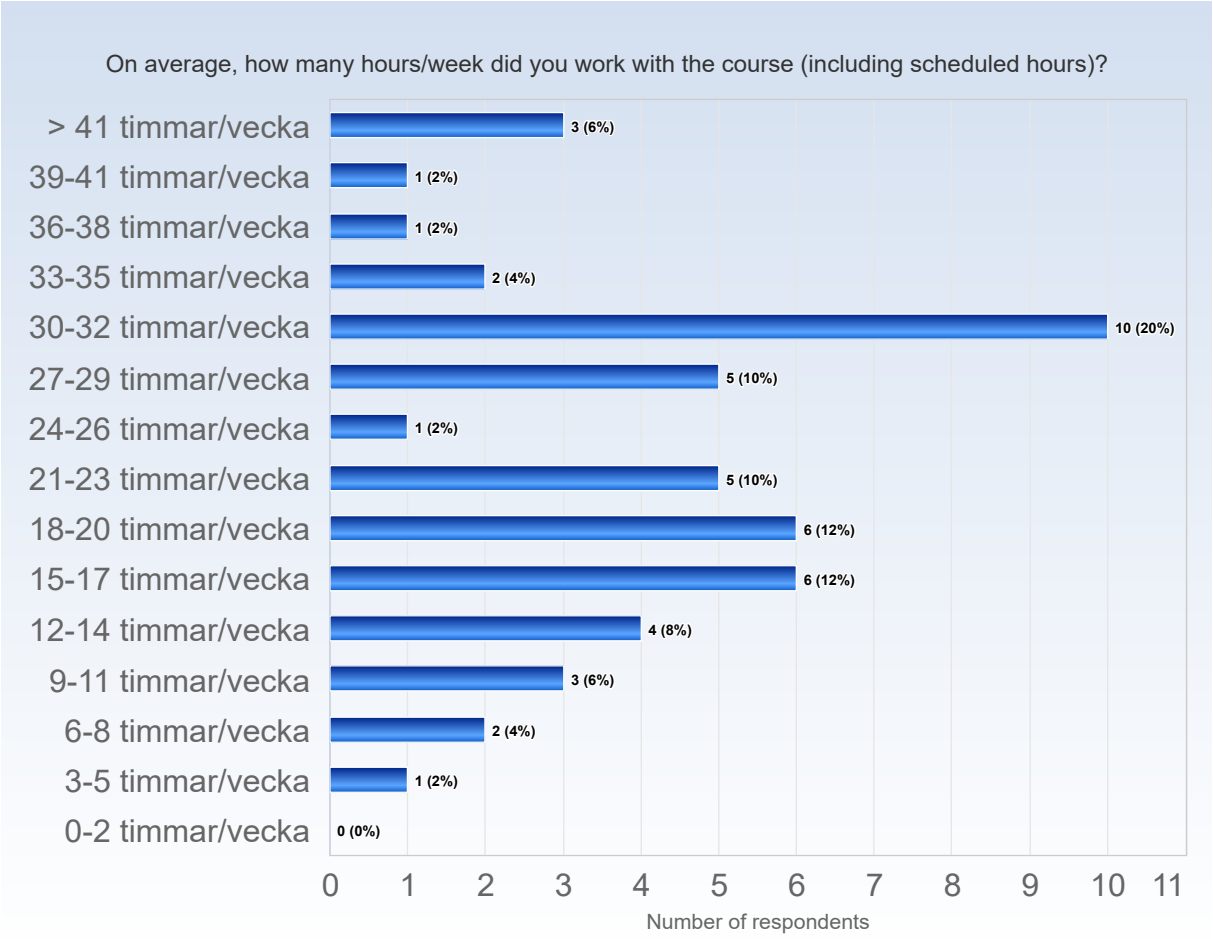
OTHER INFORMATION
Is there anything else you would like to add?

Programmen i datateknik och it måste förändras så att studenterna lär sig programmera första året.

ID1021 - 2022-11-04

Antal respondenter: 245
Antal svar: 51
Svarsfrekvens: 20,82 %

ESTIMATED WORKLOAD



Comments

Comments (I worked: 6-8 timmar/vecka)
I just did the assignments and didn't go to the lectures. I think I understood the course content well, however I had most of the course content in high school so I had a big advantage.
I did not go to the lectures, because I knew all the structures we studied so I worked around 6 hours every week on the assignement.

Comments (I worked: 9-11 timmar/vecka)
I did not attend the lectures. This were not because i thought that they were bad in any way, I just found that I could learn enough form the internet to complete the taks. To complete a assignment usually took a day or two. If i had a problem i knew that i could go to the lecture or exercise to ask questions and get help with the problem. Also i could ask in discussions on canvas.
The workload is quite evenly balanced. However, when the higher grade assignments start coming in, you might have to work a little more.

Comments (I worked: 12-14 timmar/vecka)
I think that the time spent per week was fair. However, certain weeks had 2 assignments in them (assignments for higher grades) and during these weeks the workload was a bit too much in my opinion
Bra balans mellan uppgifter och föreläsningar veckovis.
Was sufficient time for passing the course.

Comments (I worked: 15-17 timmar/vecka)
The work load was reasonable, but I did not attempt the bonus assignments for a higher grade, primarily due to a lack of time on my part. I do not think they were beyond my ability, but 4 extra assignments were simply beyond what I could have managed with my very packed schedule.
Det var mycket att göra ibland, speciellt med B och A uppgifterna som låg under tentatiden och skulle göras parallellt med uppgift 9 resp. 10.
Many hours was put in, in order to understand each concept. I've had previous excperince with some of the algorithm (Hashtables being the newest and smart solution to data collision). This is probably the one course where I had more space for myself and doing thinks at my own phase. Most of my time was needed in order to get all information from the assignment description. These descriptions was not necessarily bad, but they did have ambiguity to major problems of the assignments which took more time. The lecturer was very relaxed and the lecturer created interesting, but unfortunaly

Comments (I worked: 18-20 timmar/vecka)
This is just my personal preference but I prefer having access to all assignments at the beginning of the course so that it's easier to plan your studies, especially since some weeks we had one easier assignment but next week you might be stuck with having to deal with 2 difficult ones (this is of course dependent on the person), but this made the workload very inconsistent for me. Some weeks only needed 2 hours while some I spent 20+.
Differed with the difficulty of the assignments..
Ok
The content on the lectures is not sufficient in order to complete the huge amount of assignments that need to be completed in order to get grade E. A lot of reading has to be done after class if one wants to understand the subject.

Comments (I worked: 21-23 timmar/vecka)
Rimlig arbetsbörda och relativt jämt fördelad över veckorna
I went for the higher grade as well
Föreläsningarna gav mycket, missade man en föreläsning tog det längre tid att klara av uppgiften för den veckan.

Comments (I worked: 24-26 timmar/vecka)
The course felt quite heavy at the beginning. However, after getting into a good working rhythm, the course felt much more manageable, even when trying for the higher grades. The moments that could consume a lot of time in this course was writing the reports, decoding faulty code for the labs and also trying to understand some of the concepts for some algorithms.

Comments (I worked: 27-29 timmar/vecka)
Most of the time we had two assignments per week where most of them was very time consuming. The assignments were very hard to understand. No clear instructions on what to do. It took a very long time to just decrypt what the examinator wanted from us with the vague instructions.
Got stuck on some parts but after some work (simplification and pen and papper) was able to progress.
First week deadlines were hard to meet. It could also be a fine paced course if there wouldn't be too many details examiners pay attention to. Otherwise, this is a somewhat normally paced course (although, it could be said for a student that takes only this course for academic year's quarter)
Jag har studieinventerat och spenderat i snitt 16 timmar per vecka på kursen. Det är verkligen effektiv tid räknat, endast lyssna på föreläsning, skriva kod och skriva rapport, så varje liten paus, varje gång jag tänkt på annat har jag pausat tiden. Därför har jag svarat ett högre antal timmar, som bättre reflekterar hur mycket tid jag la på kursen. På kursens innehåll, det man behövde lära sig, var det egentligen inte för högt tempo. Det gick utan problem att ta in all information och problemet låg inte där. Däremot var det väldigt mycket inlämningsuppgifter i kursen. För att få A skulle 14 uppgifter göras, och det var alltså ofta två uppgifter på en vecka. Det tog väldigt lång tid att få uppgifterna klara, det snittade på 9 timmar effektiv tid per uppgift. Mycket tid gick åt att förstå uppgiften. Det var många sena kvällar för att få uppgifter klara. Jag försökte ha marginal på uppgifterna och bli klar i förväg, och satt även helger med uppgifter, men på grund av mängden uppgifter var det ändå svårt att ha marginal framåt utan uppgifterna blev klara snart innan deadline.
I would describe myself as an “advanced beginner” in programming. And I studied a math course simultaneously(discrete math).

Comments (I worked: 30-32 timmar/vecka)
Tycker tempot var otroligt högt. Behöve lägga mkt mer än 20h i veckan för att hänga med
It was very varied from assignment to assignment. While most assignments took between 25-30 hours to complete for me, some were done in less than 10 and a few took almost 40 hours. The work-balance between the assignments was a bit of a mess in my opinion, but overall they were great.
Felsökning av kod och rapportskrivning tog tid. Vissa uppgifter hade mycket högre arbetsbelastning än andra. Känns som att vissa uppgifter hade kunnat kombineras. T ex quick sort. Istället för en egen rapport hade man kunnat lagt till den i slutet på sorteringsuppgiften.
Felsökning av kod kan ta mycket tid... Vissa uppgifter tog betydligt längre än andra. Va lite väl många inlämningar/rapporter. Skulle kunna slå ihop vissa uppgifter, tex köer och prioriteringsköer eller att uppgifterna för högre betyg kan va extra på den vanliga uppgiften. Tex kunde quick sort va en extra frivillig del av sorteringsuppgiften, då blir det mindre rapporter att skriva.
On average the course took more time than 50% it should have. Even for me as an experienced programmer, this is because of tasks had to be redone or took a long time to understand due to unclear instructions. The total time it took varied a bit from week to week some weeks were easier and some weeks the assignments took the whole week to complete, taking up the full 100% or 40 hours, working from 8-17 each day, due to the assignments not being of equal size and difficulty. For example, the heap was one of the assignments that took the whole week were the Heap which made me personally go from submitting the assignment around Monday to submitting it on the last day.

Comments (I worked: 33-35 timmar/vecka)
Some assignments were really complex and long. Especially the first two.
I feel like the workload was far too high, especially of taking this course along with other courses

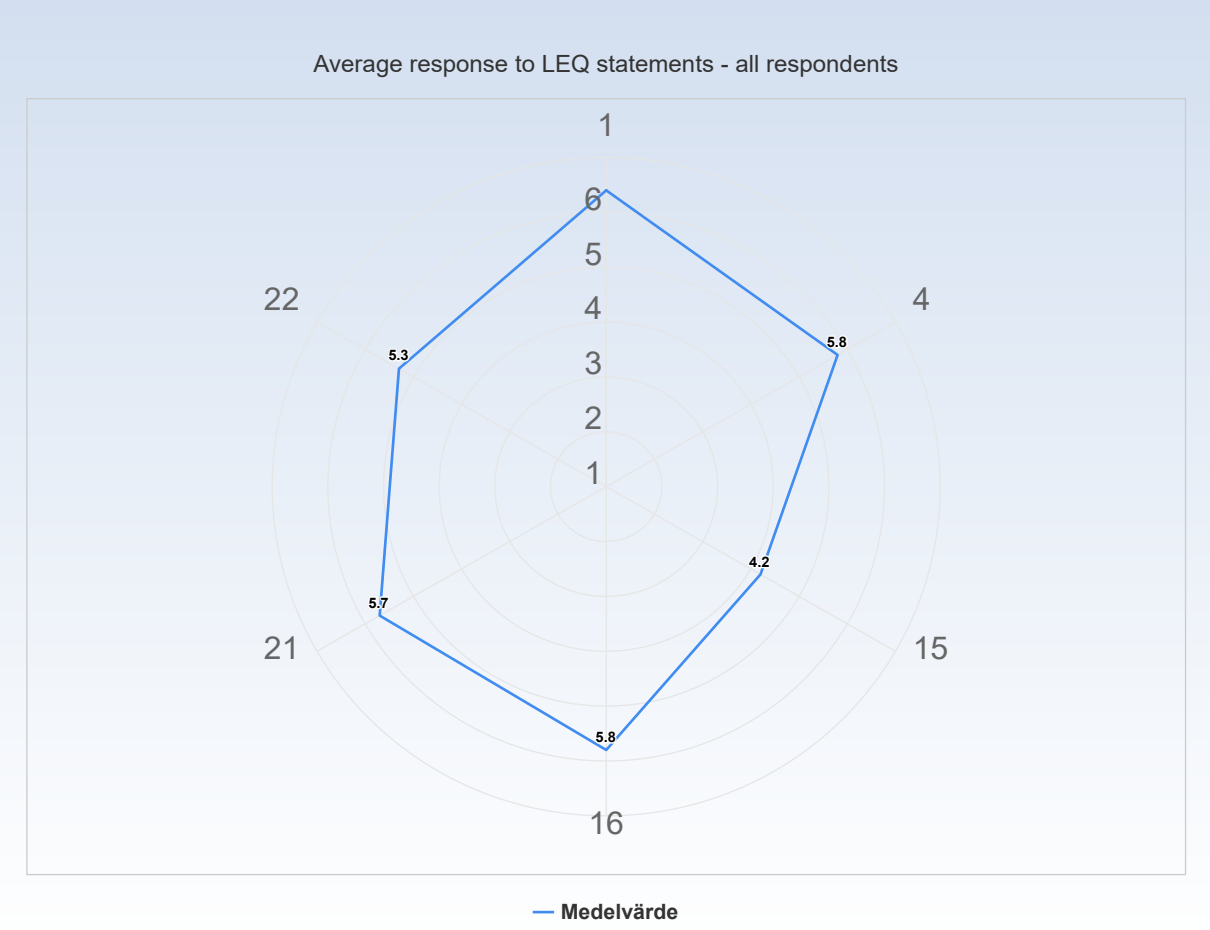
Comments (I worked: 36-38 timmar/vecka)
Because of the amount of time needed for this course, it was very hard to follow the other one we had during the Period 1.

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

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

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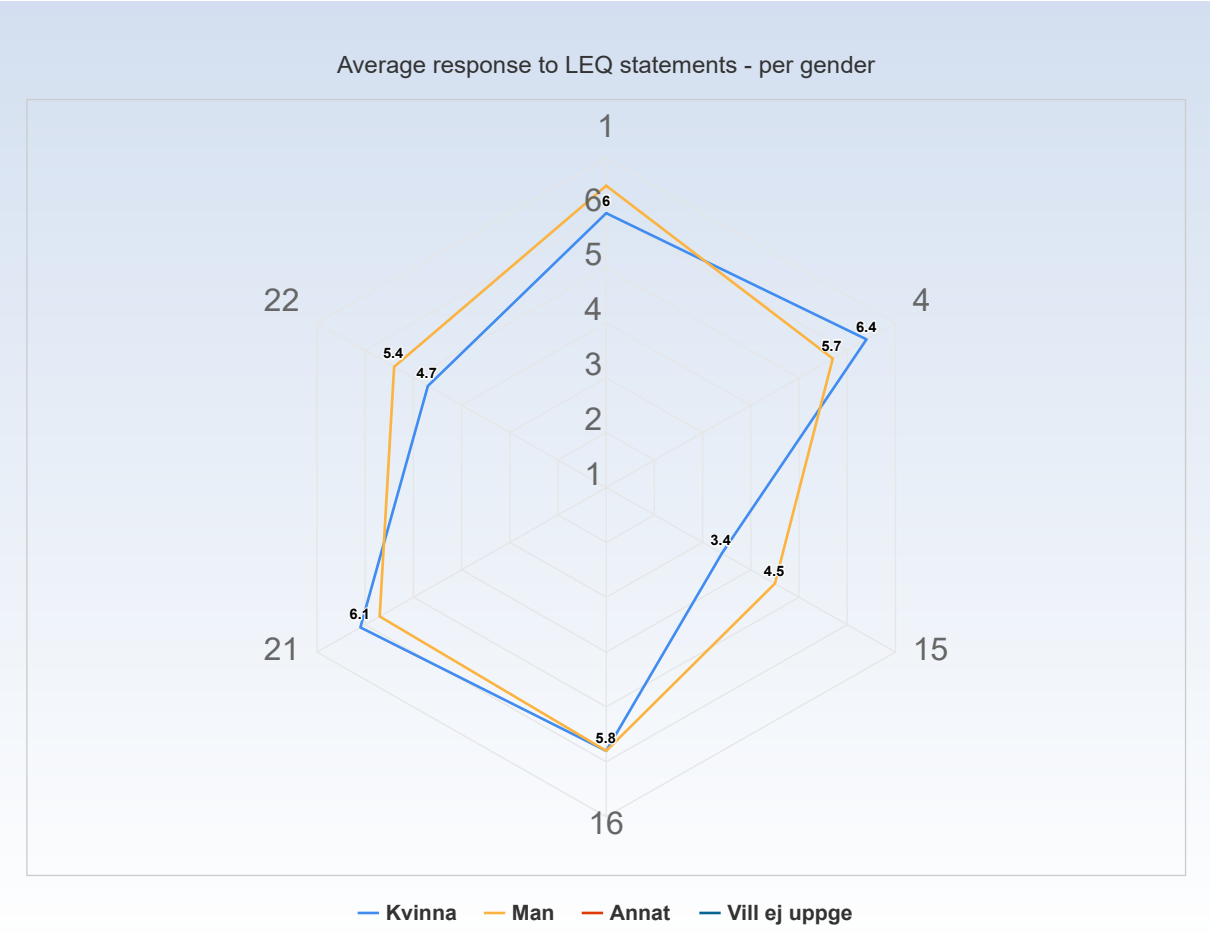
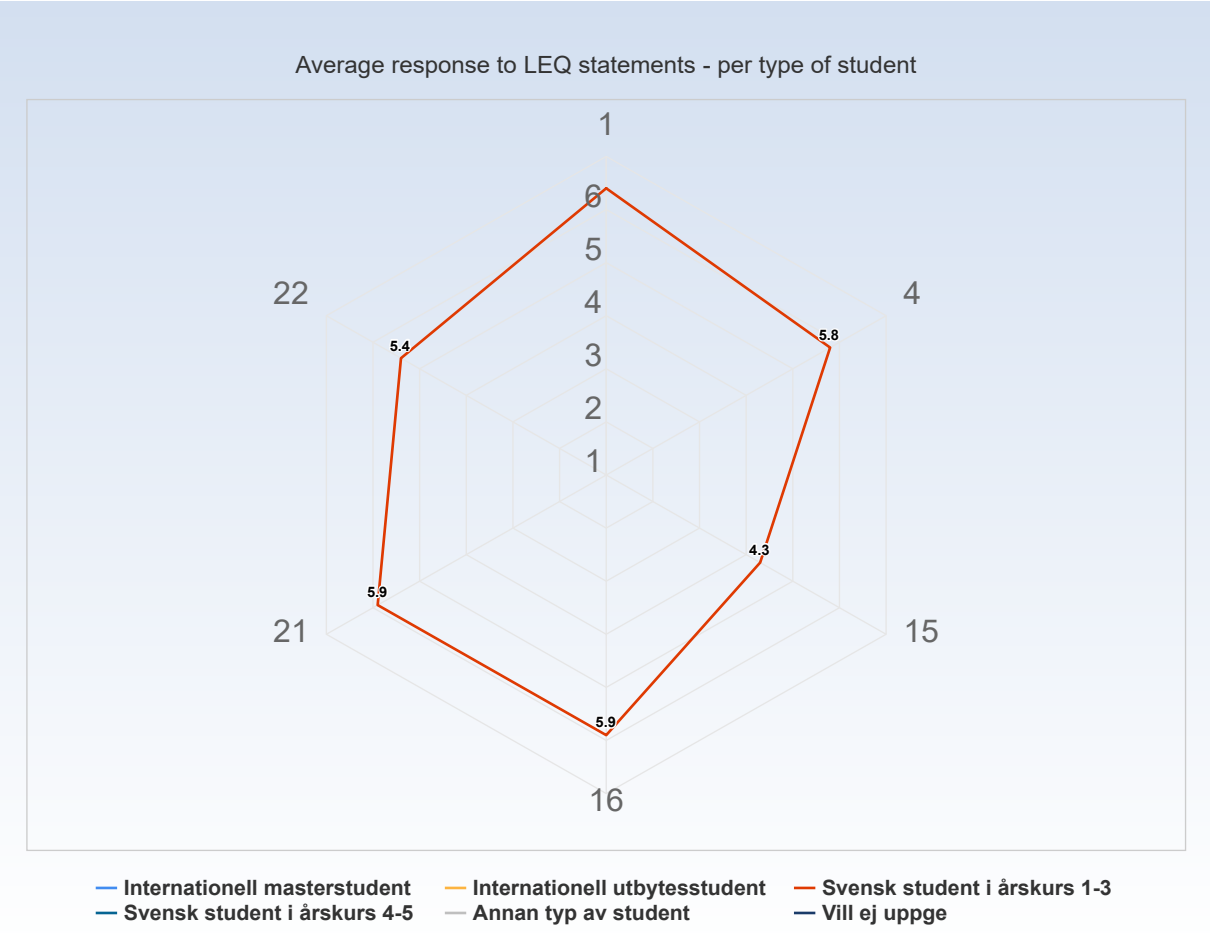


Comments

Comments (I am: Kvinna)
Both girls and boys were equally treated and included by the teacher. It felt like the course responsible was aware how much this industry can benefit by including more female perspective (generally speaking).

Comments (I am: Man)
I have nothing to add from this perspective. I noticed nothing special happening due to my gender.
Positive impression
No opinion.
I noticed no discrimination towards either sex.

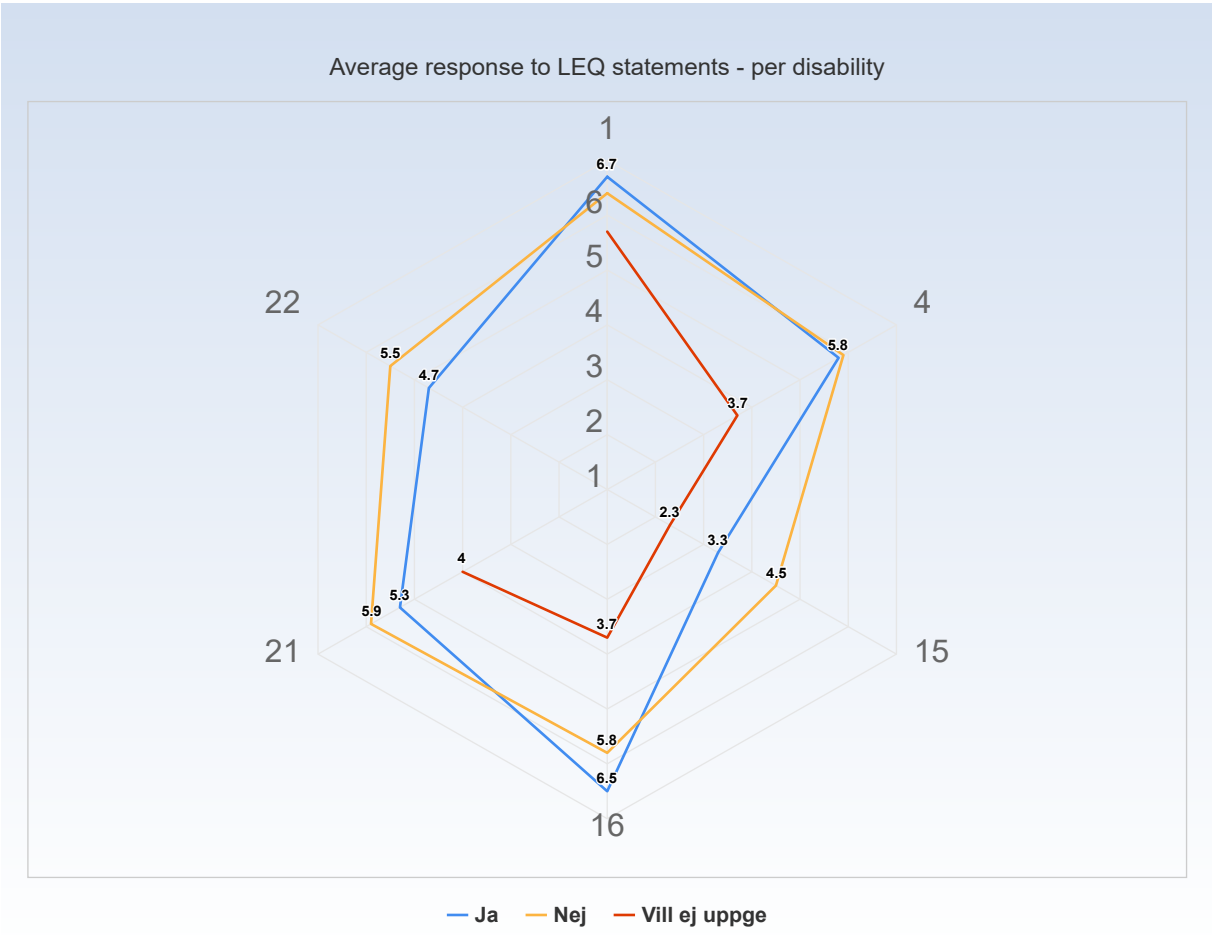


Comments

Comments (I am: Internationell utbytesstudent)
I already knew all the structures but I liked implementing them all.
The course and course discussions were held entirely in English, so I had no difficulties following them.

Comments (I am: Svensk student i årskurs 1-3)
As a second year student, this was one of the more intense courses I've taken so far. The workload was high, but the learning experience was great. Due to the fluctuating workloads from week to week, it did put a strain on the other courses I was taking at the time.
Positive impression
Bla bla bla.

Comments (I am: Annan typ av student)
I am an international bachelor student. KTH should add this option here. But I mean it's not the first time where I feel kth forgets about the English bachelor programme.
International bachelor student



Comments

Comments (My response was: Ja)
Hard to understand the assignment instructions. I could misinterpret a lot.
My disability did not prove too much of a hindrance in this course. Therefore I don't have much to say on this topic.
Jag har dyslexi. Fick ingen extra hjälp för jag frågade inte om någon extra hjälp då jag inte ansåg att det behövdes.

Comments (My response was: Nej)
Positive impression
Nope.

GENERAL QUESTIONS

What was the best aspect of the course?

What was the best aspect of the course? (I worked: 6-8 timmar/vecka)
I really likes the assignments where I had to implement the data structures and algorithms myself and where I had to solve some problems myself. This taught me more than the benchmarks.
The best aspect is that the difficulty of the assignements increased every week.

What was the best aspect of the course? (I worked: 9-11 timmar/vecka)
The form of examination. The home assignments forced you to really understand the concepts. Because you had to explain everything in writing that you did.
Assignments instead of Written exam. Assignments are better as it takes time to understand and when you experiments.
The professor. He is very passionate and articulate, and teaches in a very entertaining way.

What was the best aspect of the course? (I worked: 12-14 timmar/vecka)
I think the general structure (or at least the concept of it, will touch a bit more on execution later) was great. This course works very well with weekly assignnents, instead of exams, and it gave a lot of hands on experience to truly understand the material and concepts of this course.
Väldigt bra föreläsare och kursansvarig. Föreläsningarna var 10/10, man fick lära sig genom att sakta men säkert lära känna de olika algoritmerna/datastrukturerna, deras problem och tillsammans med föreläsaren diskutera för och nackdelar. Man fick ofta en känsla för vad ämnet handlar om innan man går in i kod och implementation, till exempel i föreläsningen om olika sorterings algoritmer, Johan hade med sig en kortlek där han praktiskt visade hur man ska tänka så att man får en djupare förståelse innan man kastar sig på att lösa uppgifterna. Utöver de bra föreläsningarna så var Johan flexibel och förstår studenter, Johan var hjälpsam med uppgifter genom att guida och hade en förståelse för studenter när det kom till deadlines och liknande. Jag frågade om att få ändra deadline för en uppgift där jag hade en "solid" anledning och Johan gick med på det. Många andra lärare har tyvärr inte den förståelsen för studenter.
The loose structure of the assignments meant one could focus on exploring the topics in a freer way than strictly following a list of instructions. It led to explorative programming that helped me in developing as a programmer. The ability to work in more languages than C and Java was also very nice.

What was the best aspect of the course? (I worked: 15-17 timmar/vecka)
I got a lot of programming practice and learned useful things about common algorithms that I can see myself needing in the future.
Lärdomarna om hur olika koncept fungerar.
Johan seem very knowledgeable in the course subjects. Pretty good lectures. I appreciated to be able to manage my time the way I wanted, as long as I did the assignments on time.
The best part was doing the coding for the assigment
No tentamen for the final grading, only assignments to turn in each week.

What was the best aspect of the course? (I worked: 18-20 timmar/vecka)
- The assignments were interesting and fun to do - I appreciated that the due dates were at "reasonable times" meaning that they were made in a way where you shouldn't have to work on the weekend if you didn't want to. - Not having a final exam was great, really appreciated only having assignments
Personally i found the subject to be interesting. I liked that we got to implement the algorithms and test them out and not only analyse and write text. I also think the professor was good and made the subject fun, and that he had a lot of knowledge on the subject. He was good at explaining the algorithms and concepts if something was unclear. He was also good at including the students in the lectures, asking questions and/or having us vote for answers etc. which made it easier to follow along. The examination form was also nice and i believe the exercises helped a lot with the understanding of the algorithms.
Det var bra att vi själva implementerade algoritmerna på olika sätt och tog tid och skrev rapporter med frågeställningar. Det gjorde att man själv förstod och tog till sig algoritmerna och skillnad på implementationer. Lärde mer kontra om det bara förelästes om det, då hade man inte förstått på samma sätt.
Easy to get E
Programming the assignments.
The subject! And the assignments were fun.

What was the best aspect of the course? (I worked: 21-23 timmar/vecka)
Intressant ämne, spännande algoritmer, grym föreläsare, engagerande föreläsningar
I liked that we got to test a lot of algorithms during the course and the layout of one per week. The tasks were good and I felt that they introduced me to a lot of new concept.
Ingen tentamen och roligt innehåll
Kul ämne, roligt med fokus på funktion i koden istället för kringtjafs. Kul att få programmera mycket.
Kursens kursupplägg! Tydligt för studenterna då varje vecka såg nästan identisk ut så det var lätt att skaffa en rutin för arbetet.

What was the best aspect of the course? (I worked: 24-26 timmar/vecka)
Fun professor and efficient lab examinations (the lab reports).

What was the best aspect of the course? (I worked: 27-29 timmar/vecka)
The topic. Very fun and interesting to learn about algorithms and data structures.
Great flexibility and availability to work from home and to get help on campus.
Data structures were very well explained. Algorithms were described in intuitive and original way as well.
Innehållet var väldigt bra och intressant. Jag tänker på kod jag skriver på ett annat sätt efteråt. Det känns som väldigt viktigt innehåll som jag kommer att använda framöver.
I learned a lot about computer science.

What was the best aspect of the course? (I worked: 30-32 timmar/vecka)
The actual content seems like a gold nugget carefully panned out of the stream. Having a continual tasks-and-reports instead of a lump exam at the end of the course is the way to do it. We had the opportunity to practice the concepts. A bird in the hand is worth ten theory heavy ones in the bush.
Föreläsningarna
That most of the work was independent, there was no need to go to the lectures if we just understood the assignments.
It was very entertaining and the right amount of challenging. Assignments did not feel redundant and gave great understandings on how all of the data-structures worked.
Kul att få programmera. Det var bra att början på kursen hade mycket färdig kod men som sedan fasades ut under tidens gång. Kul med en lärare som faktiskt kan något.
Bra föreläsare!
The course as a whole was really fun and I learned a lot. The lectures were really good even though they sometimes could be a bit too basic for someone who is a bit more experienced. Showing both a presentation with theory and examples as well as doing live coding was a good structure. Good structure to not have an exam and instead have assignments.
Interesting topics

For me, the best aspect of this course is the assignments. You learn a lot more. Exercise sessions were very helpful as well.

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

Really fun content.

The topics covered were relatively interesting and the subject as a whole is interesting and I enjoyed comparing different data structures and thinking when I would implement what dara structure bases on their performance

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

That something that appeared to be very hard at the beginning turned into a good learning experience.

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

The interactive lectures, as well as the examination form (writing reports).

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

Report writing.

That there was no exam.
I felt that I learned a lot, instead of studying for an exam and then forgett everything right after the exam.

What would you suggest to improve?

What would you suggest to improve? (I worked: 6-8 timmar/vecka)
I would've liked if the assignments would have been available earlier. Instead of having one week time, maybe 1.5. In the quicksort assignment it was not directly clear that one had to compare the algorithm with the other sorting algorithms. In the T9 assignment it could have been clearer to clearer that one had to return all possible words given a sequence. Overall the assignments, especially the early ones, could focus less on benchmarks. Benchmarks are tedious and I didn't learn much from them. For the most time the time complexity was clear to me before I did the benchmark.
Some assignement are not very clear. Maybe clarify what need to be done.

What would you suggest to improve? (I worked: 9-11 timmar/vecka)
On a few of the assignments I had a hard time understanding what the algorithm/assignments was about. Maybe it would have helped if I attended more of the lectures, but I still think that the assignments could be explained a little more extensively. I found myself looking at YouTube alot to try to understand the concepts. Perhaps it would be too easy if the concepts were fully explained. However harder questions could be asked about the concepts, to force you to understand at a deeper level anyways. It could be frustrating sometimes when reading the assignment document but not understanding what to do.
Better instructions, more code snippets to work from. Course book which we can use to depth:n the knowledge and take code from.
Give a bit more time for the upper-grade assignments and maybe don't run the course during the exam week. Give us a breather before the next period!

What would you suggest to improve? (I worked: 12-14 timmar/vecka)
I think that the bonus assignments being put parallell to the other assignments made some weeks too stressful, considering we have more courses running at the same time. Because of this, I didn't do all the bonuses, which I would've loved to do since they seem interesting. I think that the amount of assignments should be cut down to make it less stressful and more compelling to do the bonus assignments.
Uppgifterna var oftast dåligt beskrivna. Man fick lägga ner jätte mycket tid på att bara förstå vad det är man ska göra. Jag tror att uppgifterna var byggda på ett sätt så att man , på många delar i alla fall får själv reflektera och bestämma vad man ska göra. Det tycker är dåligt när det blir för mycket, man blir ofta osäker om man har gjort rätt eller fel och får vänta tills, rättning eller tills man själv kollar upp med någon lärare. Det som gjorde detta lite bättre var att som sagt att Johan var väldigt hjälpsam och rak på sak, om man var förvirrad och frågade om hjälp så sa han direkt vad man ska göra.
Feedback was almost nonexistent. Didn't expect it to be detailed, but any constructive feedback would have been nice.

What would you suggest to improve? (I worked: 15-17 timmar/vecka)
The instructions are very poor and often hard to understand, not because the concepts are advanced but rather because of ambiguity and poor wording. The lectures were fun but also quite chaotic. While it is amusing when the lecturer needs to change his slides mid-lecture and blames it on doing it last night after 5 beers, it does also make it more difficult to follow along. I am also not really sure about the examination through writing a report every week. The report writing itself takes a lot of time. During that time I would honestly rather have learned about more algorithms than formatting latex documents.
Uppgiftsbeskrivningarna, ibland var det otydligt om vad man ska ha med och inte i rapporten, eller vad man ska mäta eller inte. Första uppgiften kom lite väl tätt inpå kursstart.
With examination based only on assignments, the primary goal for myself (and many of my fellow students as far as I can tell) was not to learn anything but to finish the assignments on time. I would have preferred one week of theory and one week of doing an assignment. The theory could be a combination of lectures and a short pdf or other reading material about the subject. It would be great if the reading material was mixed with simple tasks to practice the theory (especially if these were very specific, designed to only practice each concept in "isolation", leaving larger projects for the assignments). Understandably, the assignments would sometime be slightly larger as some subjects from this years course may need to be merged but there were redundancy in some of the assignments (compare benchmarks to ones from a previous assignment for example) that could be stripped away. Also, there was a lot of benchmarking in several assignments, maybe some of that could be skipped as well (or given in some cases). Also, I would like to have oral examinations, at least for some of the assignments, for the following reasons: 1. It takes less time than writing a report (at least for me), 2. It gives the student an opportunity to ask questions about parts of the assignment that might have been difficult to understand and so on. 3. It gives (to some extent) immediate feedback on the assignment from a TA or teacher. The lack of feedback on the assignments is probably the one thing that needs to be improved first in my opinion.
I would suggest that maybe one or two of the mandatory assigments be removed
The descriptions for the assignments. Some had informal tone which does related to how the lecurer seems to hold lectures (in a good way). However, because of the informal tone, important parts of the descriptions i.e what the report should give as a final answear, becomes unclear and complicates the writing of the report.

What would you suggest to improve? (I worked: 18-20 timmar/vecka)
- The instructions for some of the assignments were seriously lackluster, spelling mistakes and incomplete sentences that made them unnecessarily difficult to understand. - The level of detail in the instructions felt very inconsistent, some assignments would essentially give you the solutions while others barely told you what the task was. - The discussion forums would have been helped by having one per assignment pre-made, it seemed like this was something that you tried to do in the beginning of the course but later gave up on. - This is just my personal preference but I prefer having access to all assignments at the beginning of the course so that it's easier to plan your studies, especially since some weeks we had one easier assignment but next week you might be stuck with having to deal with 2 difficult ones (this is of course dependent on the person), but this made the workload very inconsistent for me. Some weeks only needed 2 hours while some I spent 20+.
The scripts for the assignments could be improved. For some assignments there were a lot of suggestions and thoughts about the algorithm and the subject, and I had to read the whole script multiple times to understand what was actually asked for and what the task was. Perhaps highlight / write in bold some key words/questions etc. for us to better understand. I get that the prof. might not want to present a list of tasks, but maybe if the "task" was presented in it's own section and not just as a sentence in the middle of the text. And for the future perhaps a Assignment-PM or something with some answers to FAQ? The sessions with the TA's were also good. However when we had two assignments due each week for higher grades, it would be better if maybe there were two sessions each week? Or divide it into a swe-session and an eng-session on different days and let the students decide which one to attend. Another thing i found difficult during the course is that if one lecture was missed, there was no course litterature or documents to go back to and revise. The power point slides were somewhat helpful, but I wish there was some kind of documents or videos one could re-watch if something was hard to understand. For programming courses i understand it might be difficult to record lectures where the professor shows code, but like a pdf of lecture-notes might be good? Might just be the powerpoint from the lecture, but with some additional comments explaining what's going on.
Vore bra om den andra föreläsningen om alla algoritmer låg tidigare i veckan, då en del algoritmer var väldigt svåra att förstå. På så sätt hade det blivit enklare om ytterligare en föreläsning gavs som förklarade hur algoritmen funkade. Dessutom lite mindre uppgifter, vissa var väldigt tunga uppgifter som tog mycket tid.
Start with higher grade earlier, better descriptions for higher grade assignments, D,C,B etc
The method of evaluation. Assginment for grade B has to be handed in before one knows if one has passed the assignment of grade D. I also believe that assignments should be oppened much earlier than just a week away from the due date. Also the way lectures are planned could be improved. Tuesdays' lectures are too focused on the assignment for the week and not on the data structures in general and Friday's lectures consist simply on running code and are quite hard to follow.

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

Instruktionerna till uppgifterna! De var ibland otroligt svårtolkade och behövde samarbete mellan många studenter för att tolkas korrekt. Deadlines fredag 18:00, alla har inte alltid samma mån-fre 08-17 scheman. Vissa jobbar helger, vissa jobbar vardagar, vissa jobbar nätter, och studerar omvänt. Om rättning ändå inte sker över helgen bör deadline sättas senare i veckan, exempelvis söndag 23:59. Latex support, det var visserligen intressant att få använda sig av latex, men hade behövts mer support, speciellt i början av kursen, för att komma igång med det ordentligt.

I thought that the task description was a bit hard to follow at times, it felt that no one had proof read them and there were a lot of faculty writing. I would also liked to have a bit more theory of algorithms that we used, or some more general theory about algorithms as a whole, a little bit more theory than we got. Not showing the solution in the lecture, people attending the lesson could be done a lot quicker than the rest since they got the solution showed to them and they did not even have to learn. And I felt that the tasks for higher grade should not be an entire new task since it would have been better if they were built on the tasks for E.

En del stavfel i uppgifterna och tydligare på vad som man bör ta med i sin rapport

Tydlighet i uppgiftsinstruktionerna, rapportkraven.

Ha inte engelska och svenska övningen samma tid. Skulle vara bättre med två övningstillfällen.

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

Some of the assignments descriptions. It would be appreciated if it is possible to clarify some labs a bit more.

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

Make clearer assignments. More structure in them so it is easier to follow, read and understand.
Each assignment should have a more general structure.
Don't give us assignments with an unreasonable time frame to finish them.
Focus on the algorithms and data structure. Get rid of all the weird writing your own benchmark. It is not a course about benchmarks. Have pre-made benchmarks for the student to use.

I would recommend to have course literature for this course since it would stimulate and improve student's work, creativity and writing even further.

Antalet inlämningar måste bli färre, eller så behöver inlämningarna bli mindre. Till exempel:
- Ta bort delar av uppgifterna där man ska implementera en ineffektiv lösning. Ibland var denna lösning något man ibland använder av olika anledningar, och då kan det finnas anledning att ha kvar det i uppgiften. I andra fall, som med att hitta kortaste vägen, gjorde man helt ineffektiva lösningar som inte var användbara alls
- Om de dåliga lösningarna måste vara med för att kunna jämföras med de bra, ha de dåliga lösningarna färdiga och skicka det med uppgiften, och låt studenter implementera de användbara lösningarna och göra jämförelsen
- Ge ett kodskelett och låt studenter implementera endast de delar av koden som är relevanta för kursen för att spara tid
- Ändra redovisningsformen (på vissa uppgifter i alla fall) till att vara mer som labbar som man redovisar, för att spara tiden det tog att skriva rapporten

Det är också viktigt att instruktionerna för uppgiften blir tydligare. Jag tycker att uppgiftsbeskrivningen borde delas in i två TYDLIGA delar: en teori-del och en där det står vad uppgiften är. Att ha det blandat gör att man lätt missar någon del av uppgiften att ha med i rapporten, speciellt om beskrivningen är 7 sidor lång.

Would have liked more support with the coding. Not only by being able to ask TA, but more tutorial like study material.

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

Someone other than the author should take an editor's pen to the assignment formulations. They were ill constructed, poorly laid out, full of poorly misspelled English. I took to severely editing them for my group of collaborating students and could more often than not redact entire paragraphs without changing any semantics. Considering the fact that grading was based on writing reports (in itself fair) I'd say the assignemnt instructions were de-motivational and couldn't be held as a standard to aim for.

Kanske lite lugnare tempo på rapporterna. Kanske nöja sig med en 5st istället för 10st. En varje vecka var hårt!

Maybe more and more varied assignments, especially for higher grades, maybe two submissions for a higher grade instead of one.

Make the instructions for the assignments clearer. I was very uncertain what parts of the assignment were instructions and what were tasks. And due to some graders being more strict than others, I often ended up doing unnecessary work because the distinction between the two was not clear.

Also, please do not have 2 assignments in the first week. Starting with two assignments where the deadline is the next day (or 2 days from when you're given it), caused unnecessary stress for very little benefit.

Lite tydligare uppgiftsbeskrivningar. Ibland hade man ingen aning om vad som efterfrågades. Tydligare krav på vad som ska vara med i rapporterna.

Tydligare och mer renskrivna uppgifter.

The assignments should be more equal in size, especially the heap took extremely heavy and took 7 whole days to do.
The number of assignments was also a bit too many, some of them could be combined for next year.
Benchmarks need to be explained way more in the beginning, because doing trial and error with benchmarks, in the beginning took a lot of time. Especially since benchmarks vary so much from computer to computer, then it is hard to compare your results early on in the course.

The instructions for the assignments were at many times unclear, often due to spelling and grammar mistakes.

There should be more lectures weekly .

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

The instructions, mostly illegible. Could not understand what to be done most of the time and had to ask friends. Also unclear what to do to pass (using LATEX correctly yes, and doing some benchmarks), but then filling out the 4 pages was a bit difficult. Better to have instructions as points than rows upon rows of text and ‘maybe’ do this.

The assessment structure. Maybe have some leniency when it comes to failed assignments. Perhaps having 1-2 failed assignments out of the 10 mandatory assignments would give an Fx and a second chance would be offered.

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

The first week. It was unnecessary harsh. The sentence: "Than you come back next year" made it even harder. Also, that sentence was hovering over us during the whole course, like a bad omen. Reality was not as bad as it was presented, so a lot of unnecessary stress could have been avoided. Relaxed and motivated students learn more eager.
Also, there should be more exercises and the assistants should be better prepared. It happened sometimes that some of them did not even read the assignment, let alone did it.
There should be a chance to pass the assignment(s) in some sort of buffer period (maybe during the last week plus during the re-exam weeks) . This way we felt like we are in constant danger of losing the whole year immediately if we fail only one assignment or if we get sick for a week of two or if whatever else out of our control happens.
The course should be available in Canvas more than only few days before the beginning of the period.
Maybe avoid "size matters" as a title of the part of the assignment.

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

Clearer assignment instructions, as a lot of time was consumed by trying to deciphering what exactly is expected/required.

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

Literature. Seminars for discussions instead of exercise classes

The workload was high but it is worth it.

What advice would you like to give to future participants?

What advice would you like to give to future participants? (I worked: 6-8 timmar/vecka)
Start the assignements on Mondays and not on Fridays like I did.

What advice would you like to give to future participants? (I worked: 9-11 timmar/vecka)
write as much as you can, cause you will be writting alot
If you really want to know how it works, pick C++. Java with its JIT and other tricks will make it a little harder to truly understand the complexity of the algorithms. Also, with C++, you can always disassemble your compiled binary to see if anything was optimized out.

What advice would you like to give to future participants? (I worked: 12-14 timmar/vecka)
Never be afraid to ask questions if you don't understand everything completely. Chances are that someone can help you, or someone has the same issue and a conversation can be struck up to understand the problem together.
Gå på föreläsningarna. Visst finns det hur mycket som helst på internet om det som gås igenom, men föreläsningarna är mycket mer givande till just de uppgifterna man får, man får också chansen att fråga om det är något som man inte fattar direkt. Jag lyckades gå på alla föreläsningar (förutom sista halvan av sista föreläsningen) och lyckades att få ett A utan några större svårigheter.
Start straightaway and just keep coding. The first week or two will be hard but after that you will have learned a lot and it will be much easier. Also remember to reuse code as much as possible. Rewriting everything from scratch is just wasted time. You can generally keep things like benchmarking functions and classes like nodes and their associated methods as they will get reused.

What advice would you like to give to future participants? (I worked: 15-17 timmar/vecka)
It is very important to grasp the basic concepts of the language you work in. I think that I would have struggled a lot if I was not used to working in Java, and I know several of my peers were quite clueless when it came to things such as interfaces, which they arguably ought to be familiar with already.
Vänta inte med uppgifterna.
Make sure to keep up with the assigments
A lot of websites like youtube illustrated the conecept discussed in this course, go to lectures, ask others for help if neccessary.

What advice would you like to give to future participants? (I worked: 18-20 timmar/vecka)
Use the discussion forums if you get stuck and as always start with the assignments as soon as possible. Also for plotting data pgfplots is great as long as you're not plotting more points than latex can handle in memory when compiling.
Look at the task before the lecture. This really helped my understanding during the lectures. And don't procrastinate and start with the tasks as soon as possible.
Gå på föreläsningarna och börja tidigt med uppgifterna.
Go to lectures! :D
Learn java before you go into the course. As all the classes are explained in java, if you don't know much of this programming language you might struggle.

What advice would you like to give to future participants? (I worked: 21-23 timmar/vecka)
Börja direkt, deadlines varje vecka, så se till att vara igång från början. Tolka uppgiften så gott du kan, läs igenom allt och skriv dig en lista på vad du behöver göra i vilken ordning för att lösa uppgiften, och börja först med uppgiften därefter. Mycket lättare att klara av uppgiften då man har en helhetsbild om vad man ska utföra, samt en färdig lista att jobba sig igenom för rapporten.
Make the most out of the courser, try to do the higher grade tasks since they are great
Gå på föreläsningarna och läs igenom uppgifterna nogrant
Våga fråga när du inte förstår.

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

What advice would you like to give to future participants? (I worked: 27-29 timmar/vecka)
Take this course at a different school. Only take this course if you are only taking this one course. Skip the lectures and only look at things online. Don't focus too much on how your report is. Just make sure you understand the assignment and have correct benchmark.
Play around in LaTeX early on and get used to it.
Pay attention to what is asked from you. You can of course indulge in details but it could be better to simply spend time on task at hand. If you need more information don't be afraid to ask professor, ask fellow students that take this course or do a research of your own. Sometimes, tasks can be frustruating because of programming language or because you didn't understand task at first. Don't be afraid and keep moving on with the task later, take a break, do work on other stuff you have and then come back with clear head and tackle the problem again.
Föreläsningarna kan vara bra att gå på för att förstå uppgiften, när den känns oklar. Gör uppgifterna så mycket i förskott som det går. Samarbeta med andra för att förstå instruktionerna.

What advice would you like to give to future participants? (I worked: 30-32 timmar/vecka)
Jump in on an interpretation early, get going practically. If you get stuck on anything, remember that search engines are there for you.
Börja med uppgifterna i tid!
Start the assignments as soon as they are available.
Start with the assignments early and do a little here and there, instead of large sprints at the end. You'll learn more and you're given more time to ponder and understand the concepts.
Get started with assignments asap!
Sätt igång direkt. Får du en bugg som du inte lyckas lösa direkt kanske du missar deadline. Vissa saker tar tid att förklara i rapporten. Hjälps åt.
Sätt igång direkt, plugga och diskutera med andra! När man fastnar underlättar det mycket att diskutera.
Start early and be on time with all reports, not submitting it at the last second. Because if a harder assignment comes the next week then you want to have as much time as possible. Discuss with other students and help each other out instead of just doing everything by yourself and getting stuck at a bug for hours on hours.
Focus on assignments. Start from the very first days as you have deadlines. Work in groups.

What advice would you like to give to future participants? (I worked: 33-35 timmar/vecka)
Work in teams.
This is a challenging course. Expect to put a lot of work into it

What advice would you like to give to future participants? (I worked: 36-38 timmar/vecka)
Repeat the course topics in Java (or whatever language allowed by the course you use) before the course start. Talk to the previous generations, ask for advice, get informed about the course structure. Get familiar with Latex. When writing the reports during the course, use the template provided by the teacher.

What advice would you like to give to future participants? (I worked: 39-41 timmar/vecka)
Attend classes, as they cover relevant theory in an interactive way. Also, utilise the forum for questions. The lecturer is very active in

responding.

Is there anything else you would like to add?

Is there anything else you would like to add? (I worked: 9-11 timmar/vecka)
It was a great course where I got a lot better at coding and understanding the algorithms concepts.
Only my gratitude for this amazing course.

Is there anything else you would like to add? (I worked: 12-14 timmar/vecka)
No

Is there anything else you would like to add? (I worked: 15-17 timmar/vecka)
Fun course with a clear direction, albeit confusing instructions and noticeably rushed. Will probably be a lot better next time around.
no

Is there anything else you would like to add? (I worked: 18-20 timmar/vecka)
No :)

Is there anything else you would like to add? (I worked: 21-23 timmar/vecka)
Bästa och roligaste kursen jag haft! Såg fram mot denna kurs och den har inte varit en besvikelse. Det var detta jag ville plugga när jag valde programmet. Finns förbättringar, men även om den förblir oförändrad så är det en fantastisk kurs med en stjärna till kursansvarig och föreläsare. Om nu alla kurser i programmet kunde vara lika engagerande och entusiasmerande så skulle detta program vara det bästa i Sverige, och tankar på att se sig om för annat försvinna.
Lite många uppgifter

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

Is there anything else you would like to add? (I worked: 27-29 timmar/vecka)
Fix this course. It is such an interesting and important subject it's such a waste that it was so bad.

Is there anything else you would like to add? (I worked: 30-32 timmar/vecka)
I wish the lectures had had more of a structure to them. They often seemed improvisational. Halfway through the course I realised my actual useful notes from them were less than a page long and so I stopped going.
Överlag en rolig kurs! Gillar den nya approachen på kursen även fast tempot var för högt, hoppas bara jag klarar av att ha lite tur med matten nu.
For me, personally, it would've been much better if the higher-grade assignments were all given a due date at the end of the course so you could work on them whenever you had the spare time. Having to do 2 assignments each week because they both got locked by the end of it was very stressful and even caused me to miss two of them which felt awful because I know I could've done it, given enough time.
No .

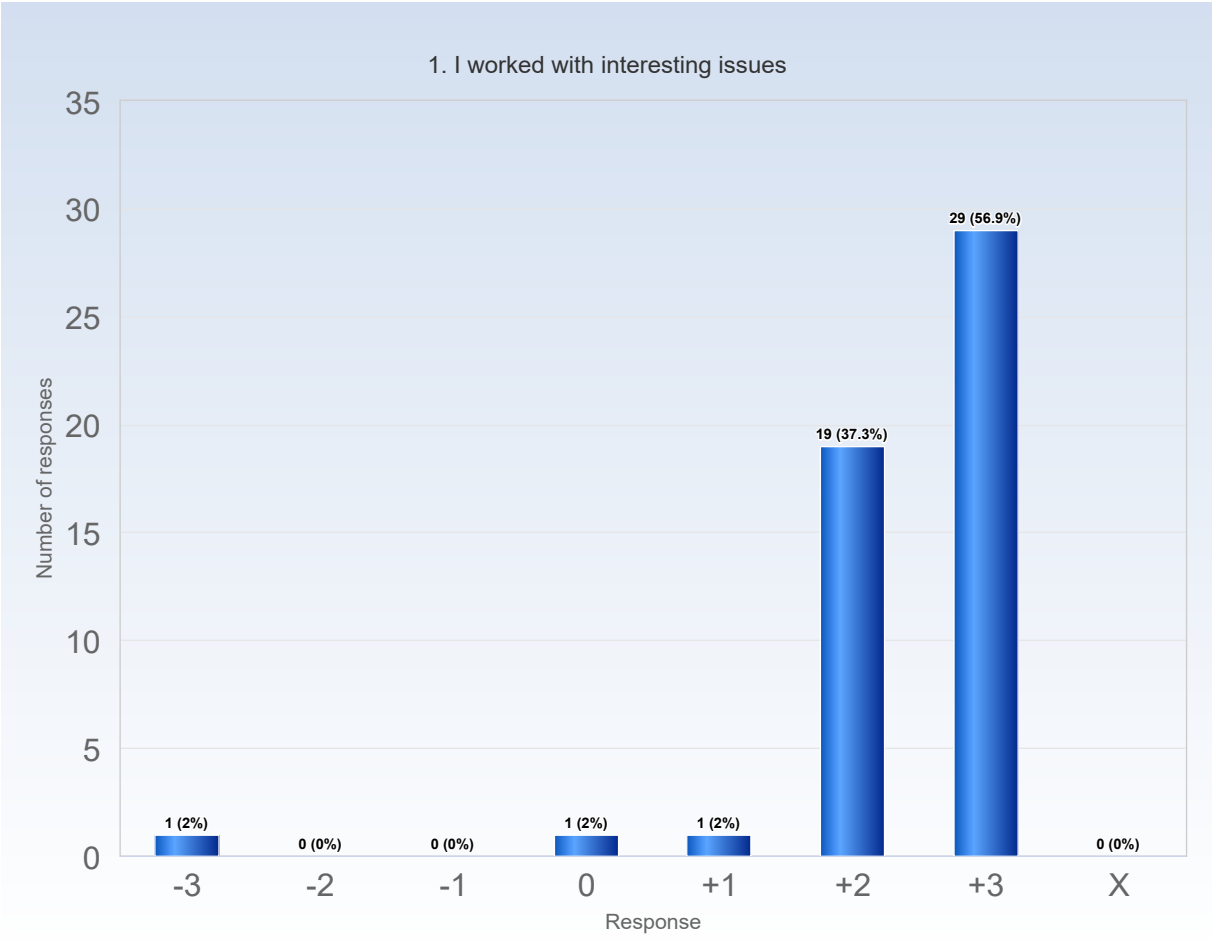
SPECIFIC QUESTIONS

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

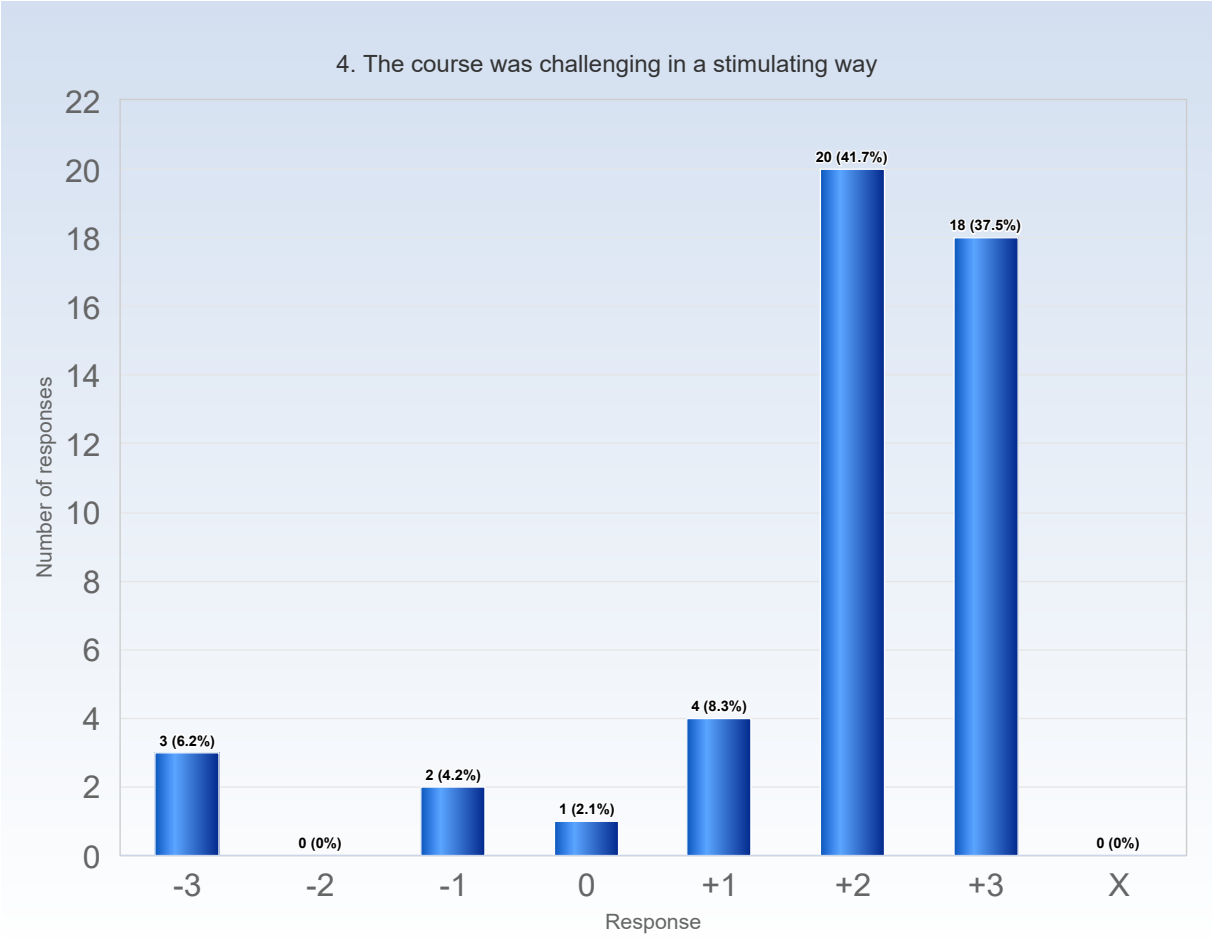


Comments

Comments (My response was: +1)
A little so-so. Some assignments were tedious, and some were super fun.

Comments (My response was: +2)
Ibland lite fyrkantigt med lösning av uppgift, men annars väldigt roligt att få applicera algoritmerna
Some were good some were bad

Comments (My response was: +3)
Very fun and intresting topics in this course.
The concepts introduced and practiced in this course opened me to an entirely new mindset when considering code.
I loved all the concepts and how to solve them. Lectures were entertaining and giving.



Comments

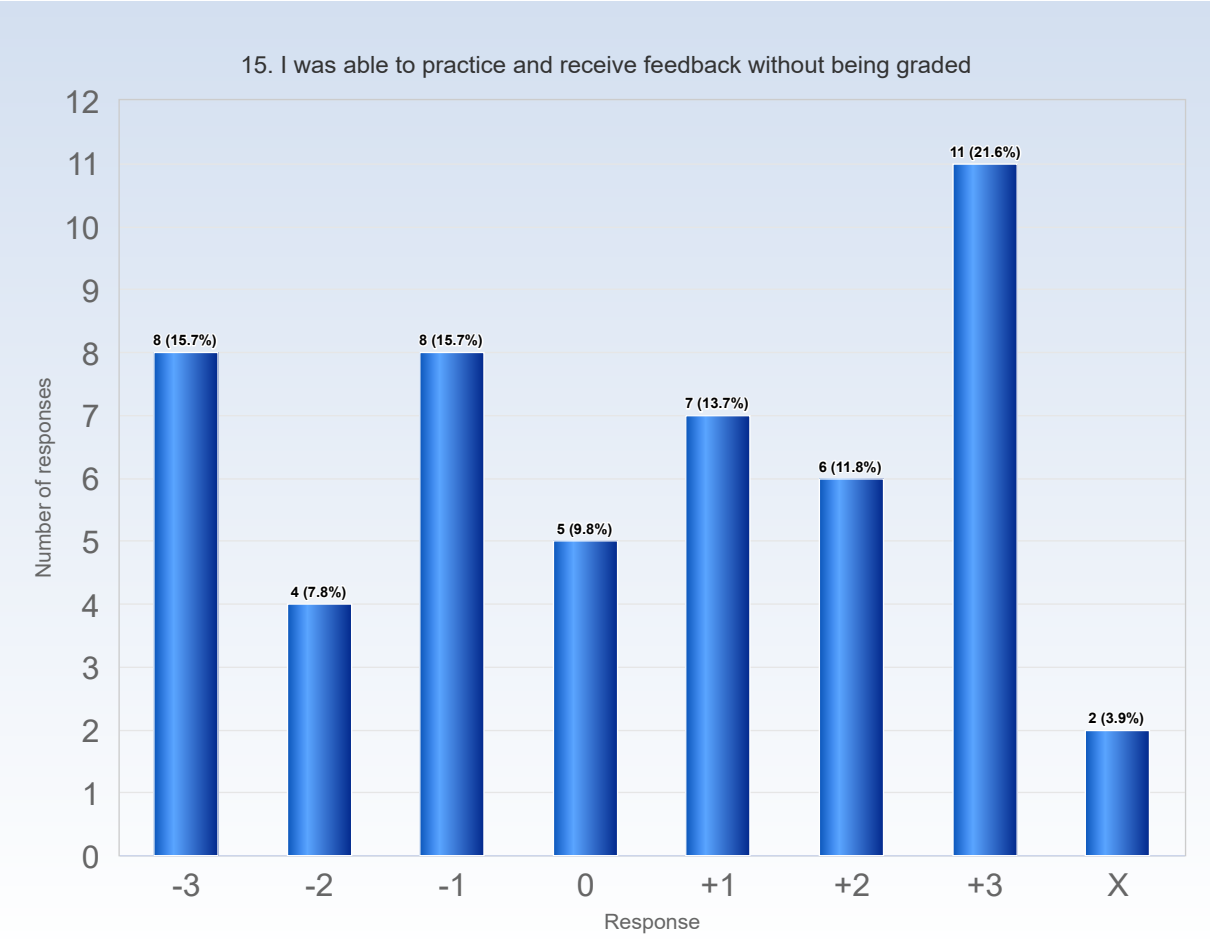
Comments (My response was: -3)
Challenging yes. But in the way of notn knowing what was excepected of me, and very time challenging.
The main challenge of the course was interpreting just what the assignments were. They were so poorly written, most of the actual time spent with them were dealing with interpretation, rather than effective study.

Comments (My response was: -1)
The course felt too challenging and it became mote about getting tasks done rather than fully understanding the concepts
Utmanande för att det krävdes så mycket tid, inte utmanande på grund av innehållet

Comments (My response was: +1)
The first assignments weren't challenging. It was just doing benchmarks, which took time but was really easy.
Challenging but not enough material to be working alone without going to lecture.

Comments (My response was: +2)
Som ovan, ibland lite fyrkantigt med lösning av uppgift, annars stimulerande
At the start, each and every lab felt like a daunting task since this is personally my first course with continuous examination. But after adapting to this course layout, the course started to become interesting and fun.
The programming part was fun.

Comments (My response was: +3)
While some assigmnets did cause more headaches than others, overall they were great and just the right amount of challenging.



Comments

Comments (My response was: -3)
Not really. All assignments were graded.
All feedback var på inlämningar

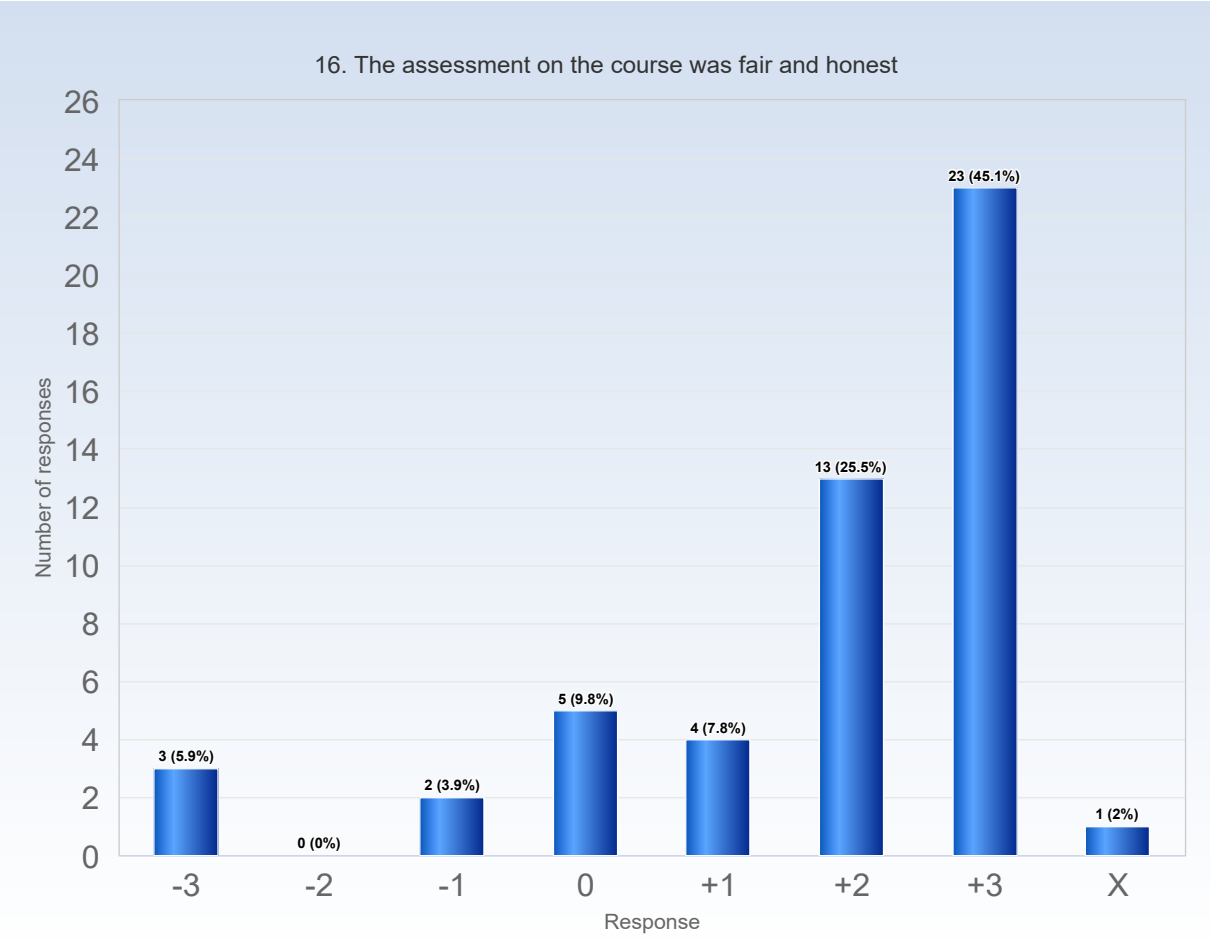
Comments (My response was: -2)
Yes, but with very vauge and mean answers.

Comments (My response was: -1)
We got feedback on assignments that needed completion. I am not sure about feedback on failed assignments but it would have been nice to not completely fail the course over one failed assignment. It would also have been nice to get feedback on passed assignments

Comments (My response was: 0)
As far as I'm aware, I had no way to practice without doing the assignment and due to the limits of the TA opportunities, I had no other options than submitting for grading and resolving any issues that appeared.

Comments (My response was: +1)
Feedbacken var många gånger under all kritik, men hade man missat någonting så gick det bra att komplettera vilket kändes tryggt
Va inte på så många övningar. Men man kunde fråga och få bra hjälp på föreläsningarna.
When you submit an assignment, you can get 1/2 as a grade, which means you need to fix it. That's enough practice for me, but I'm not quite sure it's "practice" the same way as intended in this question.

Comments (My response was: +3)
Yes. If something were off marks in the report, we were given a chance to make up for it.



Comments

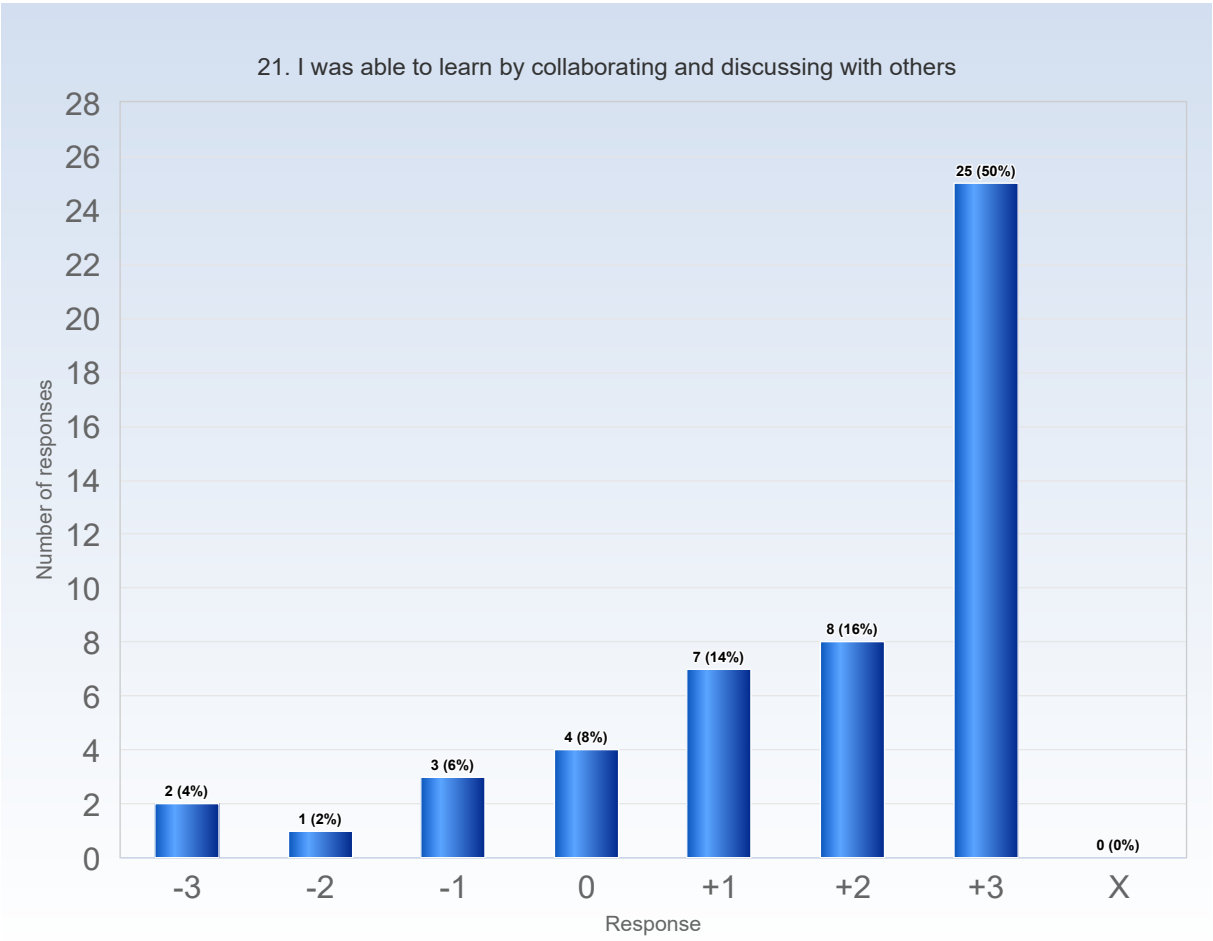
Comments (My response was: -3)
Having 10 mandatory assignments to pass is faor, but having to retake the course over 1 failed assignment is beyond unreasonable in my opinion

Comments (My response was: 0)
Kändes oklart hur rapporten bedömdes.
assignments descriptions was too ambigous to their real meaning

Comments (My response was: +2)
För egen del har det gått bra, så svårt att bedöma annat
I found that the grading differed depending on who was grading your paper. Some were stricter than others which sometimes caused frustration where I could get a 1 on a part, while someone else got a 2 with the exact same answer. I didn't run into this problem often however.
Lite oklart hur rapporten bedöms. Vad krävs för att bli godkänd?

Comments (My response was: +3)
Yes. I believe the feedback on improvements was helpful and nice to read. Good to know how to improve the code/analysis etc.
Simply writing a lab report felt like a really good solution for the examinations. Other lab-heavy courses I have taken before focused on presenting the labs orally at specific laboration sessions. But those kinds of examinations always caused long queues - queues that could have a wating time of over 1 hour.
Skulle vara bra med tydligare instruktion/lathund för vad som ska vara med i rapporterna, nu blev det mest att jag chansade/ frågade andra studenter som inte heller visste.

Comments (My response was: X)
Honestly most of my reports was very bad and had a very low level, but I got good grades anyway.



Comments

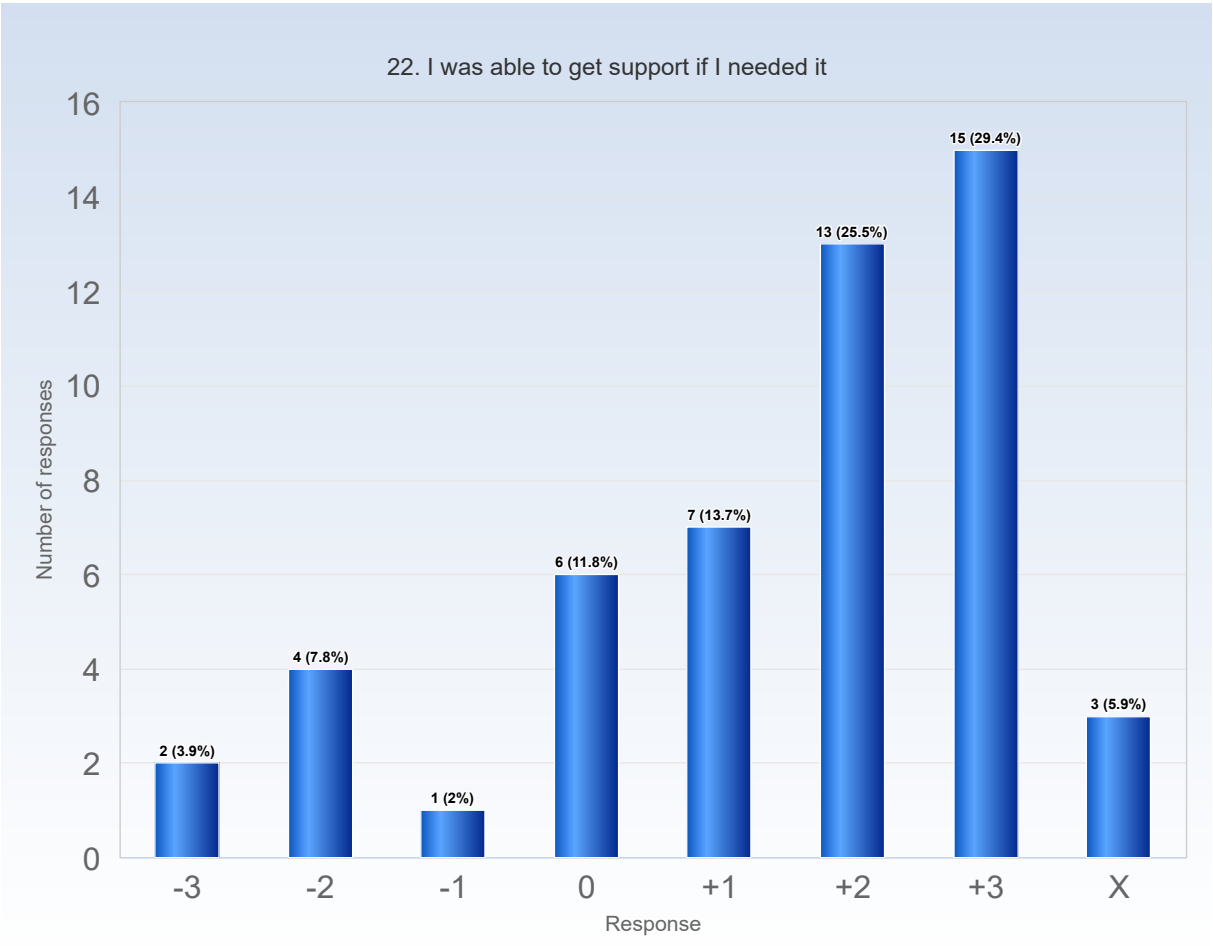
Comments (My response was: -2)
Due to everyone doing the assignments in different ways (And different programming languages), finding classmates that could help with my assignment without straight up giving me the answer was difficult.

Comments (My response was: -1)
Inga samarbeten direkt, däremot fick man ta del av andras rapporter och kunde i efterhand själv utvärdera sin egen inlämning
The canvas boards and other venues were mainly concerned with finding clarification to the assignemnts. I'd estimate I spent at most an eighth of my interaction with other students discussing the actual content.

Comments (My response was: 0)
I mean yes If I asked in private forums. But nothing provided by KTH.

Comments (My response was: +1)
The discussions during the lectures were nice. However not much room in genereal for discussions if you dont have friends in course.

Comments (My response was: +3)
I found that working by yourself in this course made everything feel much scarier than when you could discuss with others and tackle each task together. Everyone has their own perspective of the assignment descriptions and that could help a lot.
Det var så jag förstod de flesta koncepten i kursen
Inget kursen hjälpte mig med men det gick.



Comments

Comments (My response was: -2)
Too few practices.
Nope

Comments (My response was: +1)
Ja, man kunde be om hjälp på Canvas, men svaren var inte alltid lätta att tyda, tror de flesta fick ordentlig hjälp genom att fråga efter föreläsningarna

Comments (My response was: +2)
At the exercise sessions we could get help if we wanted to. The queue was quite long at the times I attended to such a session, however.
If I had an issue, I could ask after lectures or during the TA hours, however these very limited and often weren't around when I needed them.
Mycket stöd på E-uppgifter. Mindre stöd för högre betyg uppgifterna.