

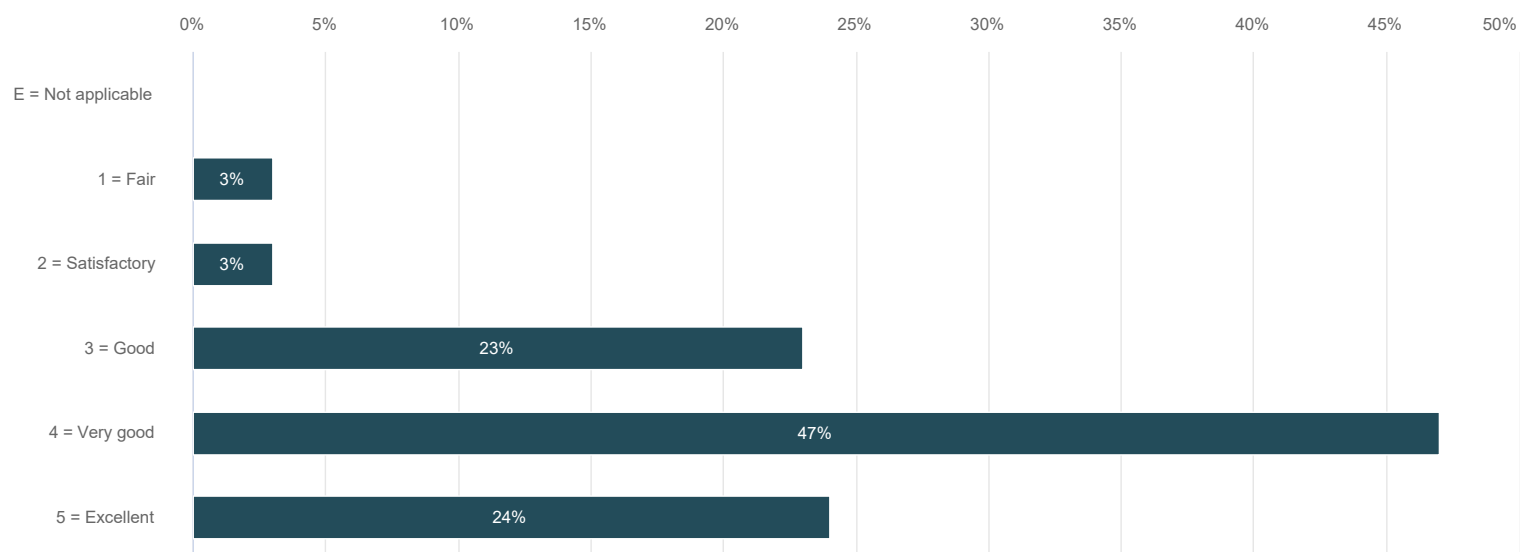
CHEM-E1130 Catalysis, Lecture (2022-01-10 - 2022-02-22)

Vastaajien kokonaismäärä: 34

RHP
8.3.2022 →

1. My overall assessment of the course

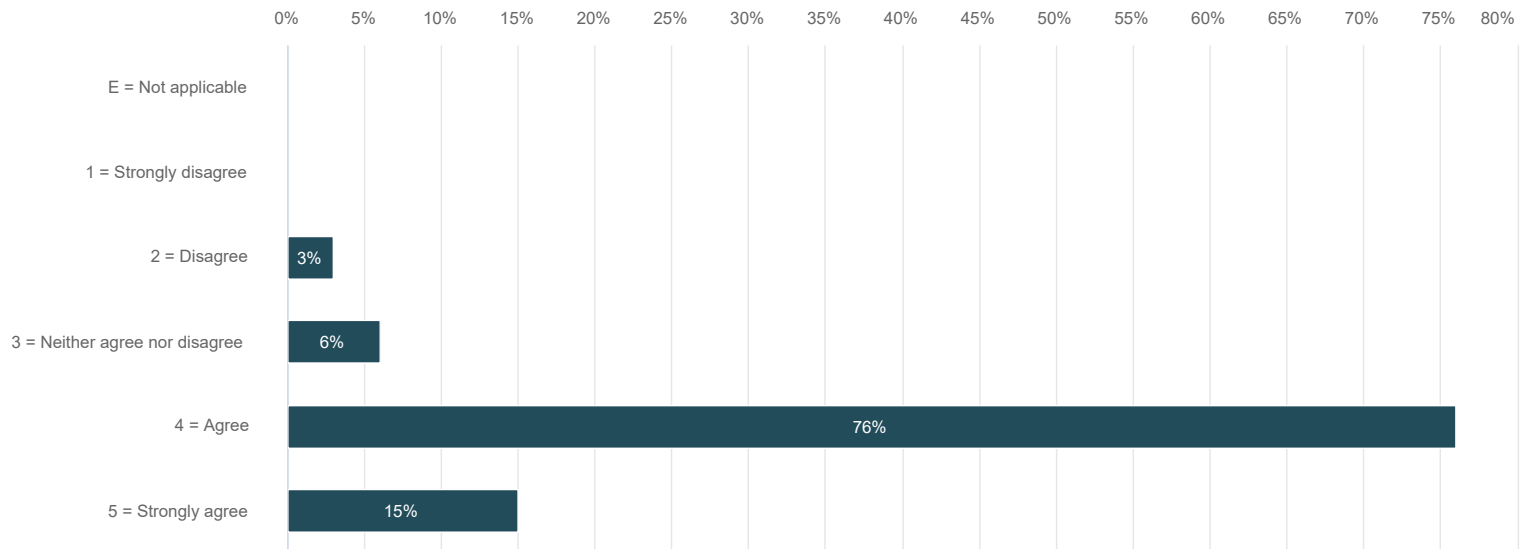
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Fair	1	3.0%
2 = Satisfactory	1	2.9%
3 = Good	8	23.5%
4 = Very good	16	47.1%
5 = Excellent	8	23.5%

2. The teaching methods (lectures, labs, group work, online study, assignments etc.) supported my learning

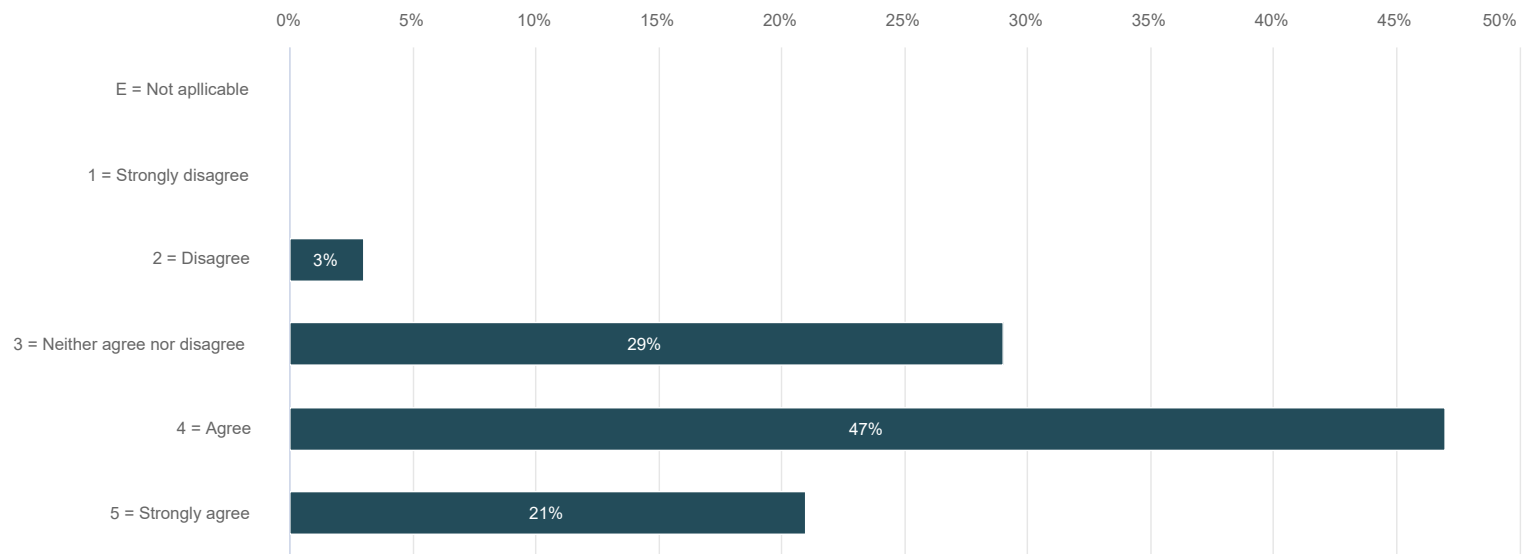
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Strongly disagree	0	0.0%
2 = Disagree	1	2.9%
3 = Neither agree nor disagree	2	5.9%
4 = Agree	26	76.5%
5 = Strongly agree	5	14.7%

3. I am pleased with my study effort on this course

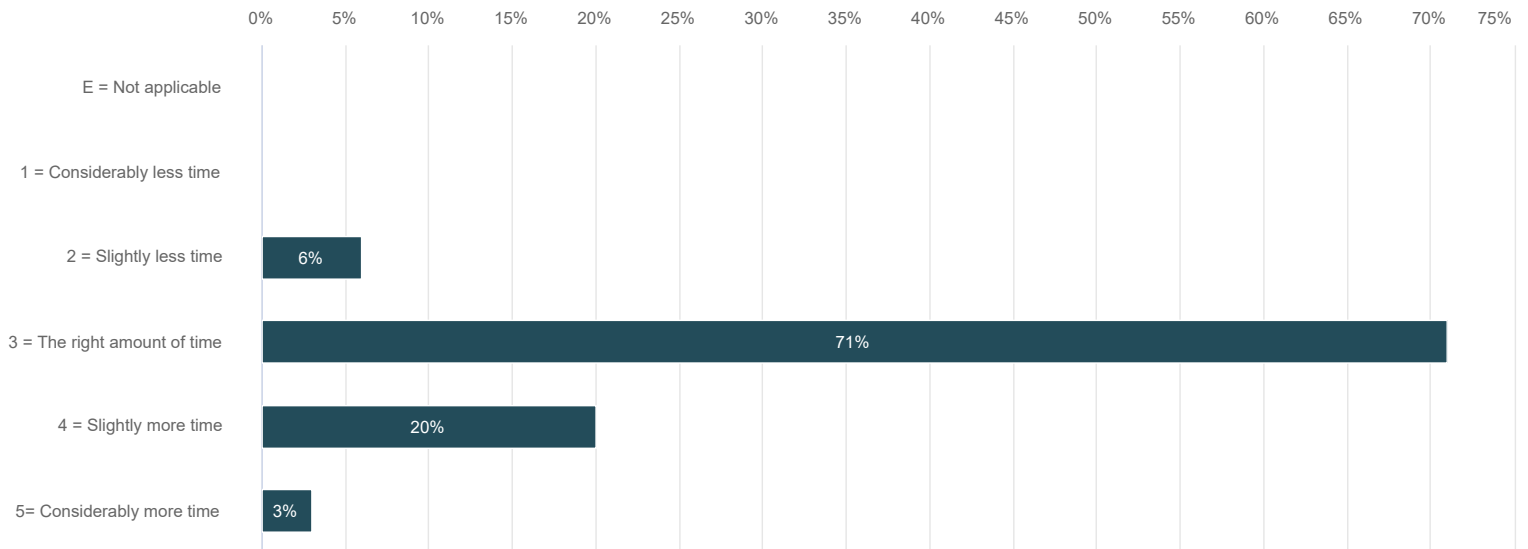
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Strongly disagree	0	0.0%
2 = Disagree	1	2.9%
3 = Neither agree nor disagree	10	29.4%
4 = Agree	16	47.1%
5 = Strongly agree	7	20.6%

4. According to the guidelines, one credit (ECTS) requires 27 hours of student work. Compared with this, the completion of the course required

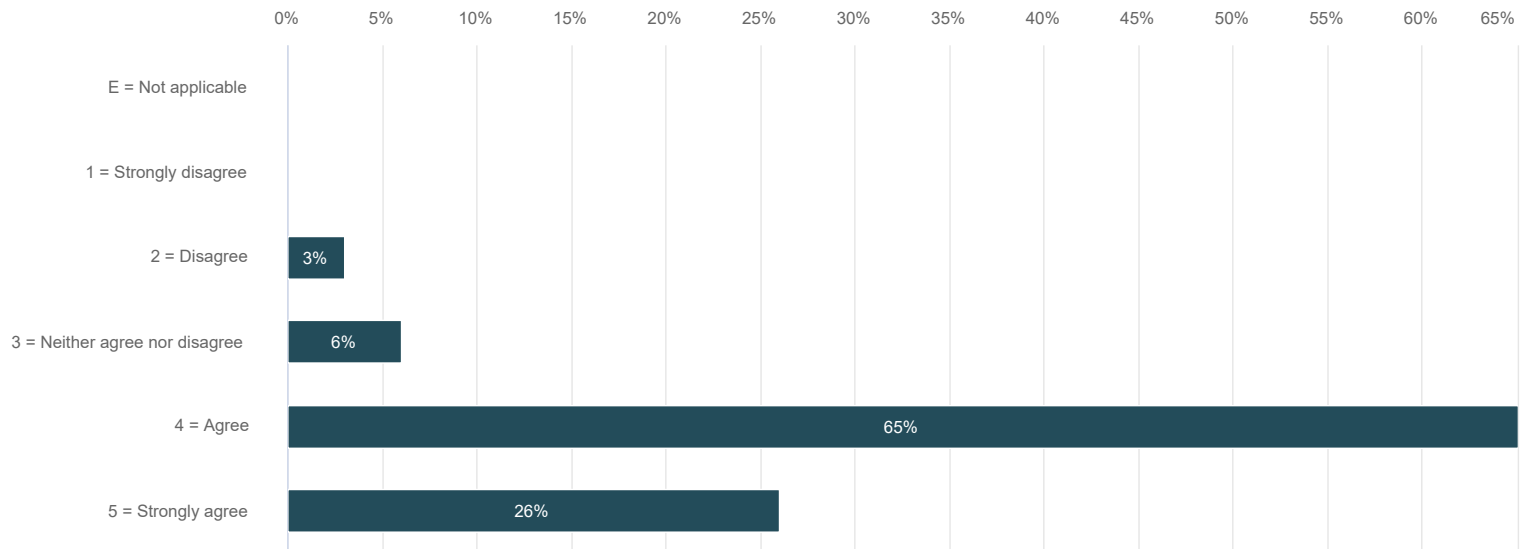
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Considerably less time	0	0.0%
2 = Slightly less time	2	5.9%
3 = The right amount of time	24	70.6%
4 = Slightly more time	7	20.6%
5 = Considerably more time	1	2.9%

5. The course content and objectives corresponded to those of the course description

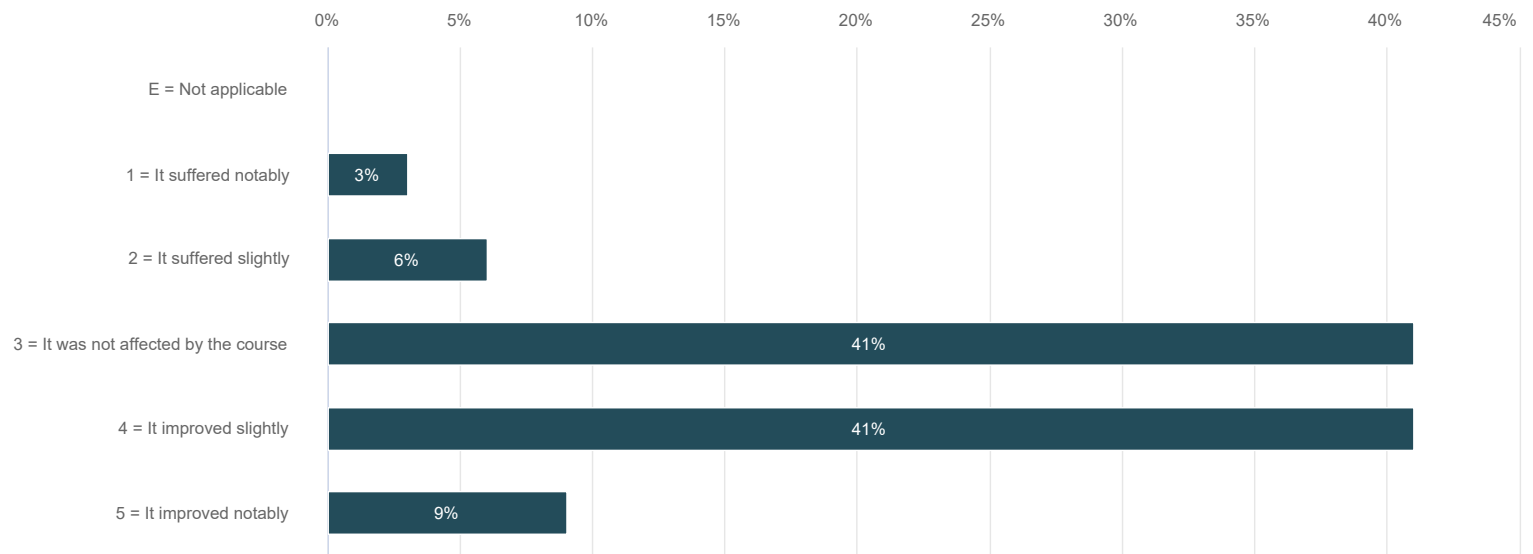
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Strongly disagree	0	0.0%
2 = Disagree	1	2.9%
3 = Neither agree nor disagree	2	5.9%
4 = Agree	22	64.7%
5 = Strongly agree	9	26.5%

6. How was your study motivation affected by the course?

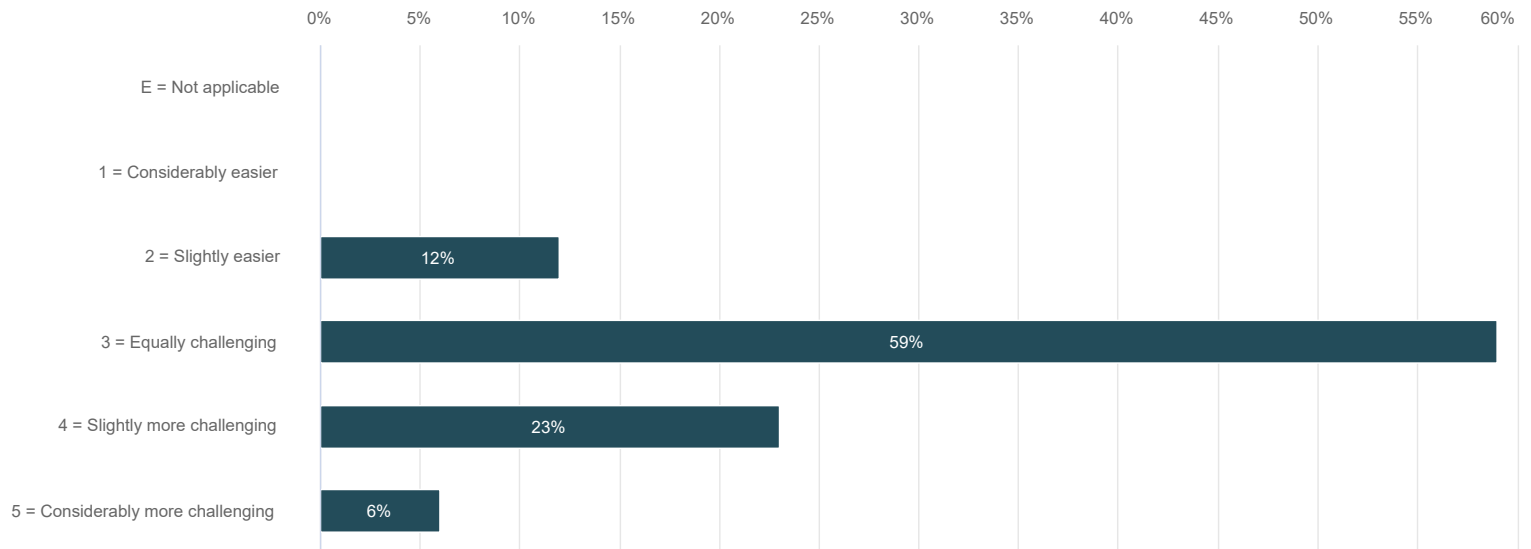
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = It suffered notably	1	2.9%
2 = It suffered slightly	2	5.9%
3 = It was not affected by the course	14	41.2%
4 = It improved slightly	14	41.2%
5 = It improved notably	3	8.8%

7. Compared with other courses of similar level that I have completed at the school, the course was

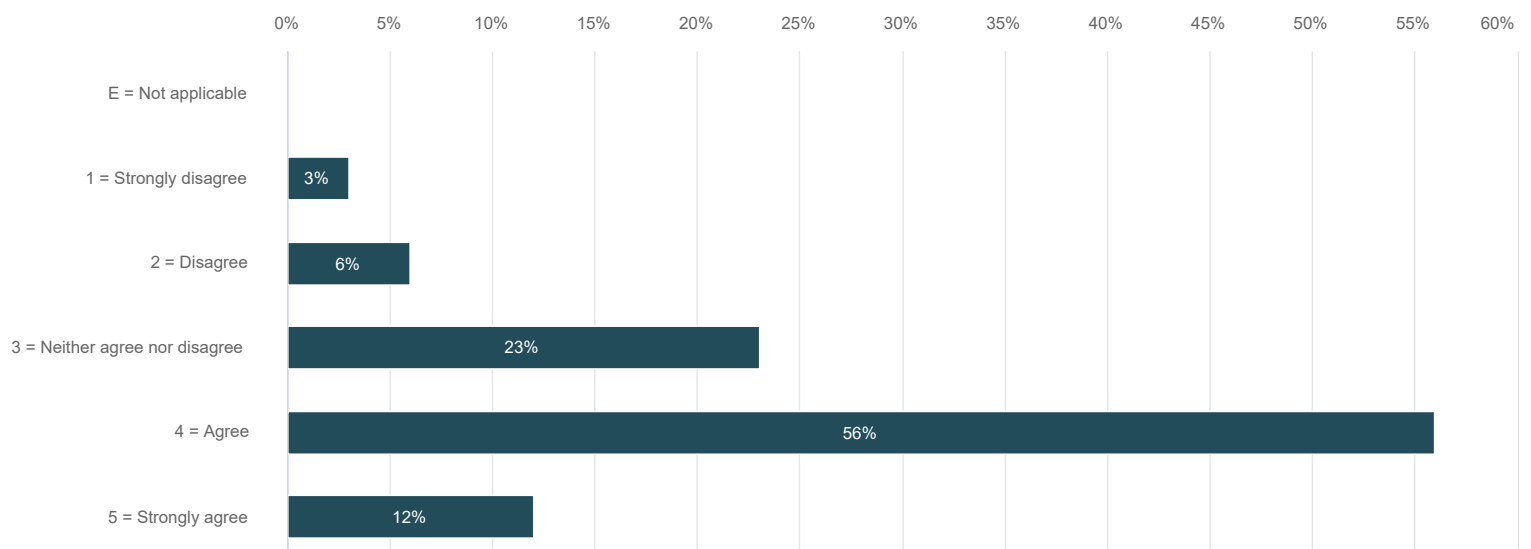
Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Considerably easier	0	0.0%
2 = Slightly easier	4	11.8%
3 = Equally challenging	20	58.8%
4 = Slightly more challenging	8	23.5%
5 = Considerably more challenging	2	5.9%

8. The course enhanced my general skills (such as teamwork skills, writing skills, problem-solving skills and a systematic working approach)

Number of respondents: 34



	n	Prosentti
E = Not applicable	0	0.0%
1 = Strongly disagree	1	2.9%
2 = Disagree	2	5.9%
3 = Neither agree nor disagree	8	23.5%
4 = Agree	19	55.9%
5 = Strongly agree	4	11.8%

9. General comments and suggestions (on such matters as course material, teaching methods, course arrangements, ways of completing the course/examinations and unnecessary overlaps with other course contents, or other matters).

Number of respondents: 23

Vastaukset
I did not like the quiz. It was time consuming and sometimes the questions are quite tricky...
Good that the lectures are recorded.
Sometimes the lectures moved a bit too quickly
Keep the quizzes, it keeps the student alert.
The structure of the course is good. Should keep the same format for the next year. I had overlap on Wednesday, but the recordings were quite clear.
The quizzes are good for learning the material. Also the presemo questions help to stay focused on the lecture.
I think this course had the best lectures out of the other courses i completed in fall.
Very interesting experience but I would suggest scheduling in such a way to avoid overlap with other courses.
Good course Even If arranged remotely
I think it was by far the best course I took during my studies regrading material, teaching methods and reparation, course arrangement and ways of completing the course and examination.
Thanks for the course!
The answers for the lecture presemo should be saved somewhere which would make the note taking more easier. And on top of that if the student did not happen to listen while the answers were explained, the student can check it afterwards, thus follow the lecture. <i>Thanks for feedback. Doing this, is a bit of extra work - but only a bit. I was actually planning to do this, but forgot - sorry for that.</i>
- teaching methods was very good. The teacher was highly motivated for the topics. This spirit took over. - the slides were sometimes hard to understand on their own. without the teachers words some diagrams were not understandable, this is not so good for studying for the exam. Maybe put some explanations to the diagrams
I think the course was interesting but overall the course was too packed and with tight schedule. I think there was too many exercises in this course as there were quizzes, calculation exercise, group work, peer review etc. I feel like the amount of work during the course could have been divided into two periods which would have helped the workload. Also I got a feeling that course lecturer just adds many different things to the course to have the working hours completed instead of having just on or two of these mentioned before and would focus on those. There is no need to have all types of assignments on the course. Also <u>hydrogen group work had zero value to the students as the assignment was so small and no interest doing such thing in so short time period. Like why to video the thing... I did not get anything from it.</u>
I think some of the lecture slides were a bit "messy" and hard to understand. Especially when they are intended as reading material for the exam, I think they could be a bit clearer. (E.g. some slides didn't have a lot of text or the text was hard to understand, and some questions didn't have answers)
I like that presemo and panopto was used, as this aided in learning concepts during the lecture and revision respectively.
In general this was the best course I have ever been.
I would suggest that the co-creation could be more extensive, maybe little longer reports or videos required.
Lectures were really good and presemos were good method for activating students during lectures
some times there was no information in the lecture which was asked in quiz.
It was an interesting and useful course.
This was a very well planned course and also very well executed! It is nice to see that the teacher puts so much effort into the whole course. Other courses could benefit of the teaching ways in this course.
I liked the lectures very much. Professor had calm way of teaching the learning outcomes.

10. Feedback on the MyCourses implementation. In 2022, the goal was to keep and further improve the already high level of CHEM-E1130 MyCourses implementation. How did we succeed? Could you find the things you needed? How does the MyCourses implementation compare with that of other courses? What could we still do better in the future? Detailed responses are appreciated. The purpose is to openly share learnings from CHEM-1130, to help improve other courses' MyCourses sites in the future.

Number of respondents: 23

Vastaukset
Mycourses site is good enough!!
Good that it is easy to access and find information.
I found everything I needed, no problem at all. Perhaps one thing I'd prefer would be having the panoptos in a folder on the left-hand toolbar instead of in the upper corner of the front page, but it's merely a thing of preference.
Everything was easy to find. We were not overblown with information and everything was clear structured
The mycourses implementation was done very well. Everything was clear and easy to find.
I found everything i needed. I do not know how to improve it any further. <i>thanks for feedback. For assignments, the purpose was that there would be one. But indeed, I cannot find it. Sorry! (Quizzes work without.)</i>
An announcement for feedback on assignments or quizzes will be appreciated. <i>X</i>

Mycourses worked well.

MyCourse implementation was really good. All the different topics were categorised nicely in MyCourses, thus making it easy to find the things I needed.

The MyCourses page is clear (which is not always the case), especially because the names of the sections are descriptive so it's easy to know where to find what you are looking for. Almost all courses have lecture recordings either in the lecture section or in a separate section which might have caused some confusion?

There's really no instructions for where to place them. Thanks for feedback.

It was very nice to be able to submit feedback after every lecture.

I think the course was very good implemented in mycourses. Maybe the course recording were not so easy to find, although there are at the front page :D Maybe you can make the a side bar item for the recording, then ones would see it at the first glance.

I think the pages were okay but having too much stuff on the course concluded to fact that at least I did totally forgot some of the assignments.

I think that the course enabled me to understand the topic of catalysis to a much higher degree. Compared to other courses, the implementation of this course is much better, especially in the use of mycourses, panopto and presemu. To improve the course, I think that the weightage of continuous assessment can be higher, and the weightage of the exam can be lower.

Otherwise good, but maybe this is my stupidity but it was hard to find the panoptos first, maybe a folder for them somewhere in mycourses would be better.

Quiz was too difficult this year

MyCourses worked okay, and It's nice that finally someone actually uses the grades part of MyCourses



To me, everything was easy to find. There were a lot more individual items and links to external pages compared to other courses, which might be confusing to some. However, I think it was mostly justified and having everything under a dedicated section made it easier to navigate.

Lots of extra materials are pointed to. they can be useful after this course.

Mycourses pages were good and clear enough. I found all the thing I needed to find.

It was good that mycourses was used. It is better to have all the quizzes, return boxes, and lectures in mycourses because it is a user-friendly platform and it is familiar to the students.

The MyCourses pages for this course are very well maintained and clear to use. The only thing (and very minor one) that bugged me was that the lectures are posted in a decreasing order and the quizzes are posted in an increasing order. Not really a problem, but when reviewing the quizzes and lectures for the exam it was a bit annoying when trying to locate the quiz that corresponds to a lecture. As this was the only thing I could come up with that means that the MyCourses was really well made!

thanks for saying this. We teachers noticed it, too, but we were

I really liked the fact that the grades of submissions where easy to find from MyCourses.

far into the course and thought that it would be more confusing to make changes then.

far into the course and thought that it would be more confusing to make changes then.

11. Feedback on the deadlines. We have tried to arrange the deadlines within the course for maximum flexibility for the students, and collected all deadlines on one slide. Comments on the deadlines? Proposals how to improve next year?

Number of respondents: 29

Deadlines were fine!

Adsorption exercise and hydrogen economy was too close.

I think the deadlines were fine and the information was easily found.

Wouldn't change anything, it was great.

The excersize deadline and report deadline were very close to each other.

I think the quiz deadlines could maybe be more flexible. Maybe a deadline at the end of the week for both quizzes.

They are already flexible, with three full days. Another course required submission 15 min after lecture ...

I really liked that the quiz deadlines were flexible since I had overlap in this course.

The deadlines were relatively well spaced out compared to other courses.

I think the deadlines were good.

No conflicts.

Even If the group-work deadline was early, it was good to Be there and free Time for rest of The period (when other courses have deadlines..). For The future, i would prefer to separate The deadlines of group Works and adsorption assignment.

I really liked that the deadlines were collected on one slide. It was good that the deadlines were spread out evenly over the course

Very flexible deadlines, it was very nice to have extra days as well

I liked how the adsorption exercise had a long deadline but could be completed practically immediately after it was released without massive lecture bottlenecks, which allows for more control over my own schedule.

Thanks! This is how it was meant.

Deadlines were fine for my part.

i would guess that for a student more time is always better, but the course is only for one period. So i don't think you should rearrange the DL, although the DL for video and 2. Report were on the same date.

It was ready hard to keep on track what deadline is next as there were so many of them and multiple on one week.

For me it was good that all of the "bigger" deadlines were in January. I think there was enough time to complete each assignment.

I think the deadlines are set at an appropriate time, there is no need to change as of now.

Maybe adsorption exercises deadline should be friday or sunday.

Hydrogen group work deadline was too thick but other DL is fine

Vastaukset

Deadlines were very flexible

There were two major deadlines on the co-creation and adsorption characterization exercise quite close together (31.1. and 2.2.). Could they have more time in between them?

We had enough time to do all the assignments so in my opinion there is no need for changes.

Nothing was too tight

it was good and give sufficient time to complete task on time.

The deadlines were ok. The work did not pile up because of the different deadlines.

The deadlines were good and very nice to have all deadlines on one page.

← Multiple students said this

From my point of view there was no problems with the deadlines. All went well in that sense.

12. Feedback on the lectures. For example: Did the lecture contents meet your expectations? Was the order of lectures suitable?

Number of respondents: 24

Vastaukset

Lecture slides needs to be more detailed.

Lecturer was patient and easy to understand.

Sometimes the lectures moved a bit too quickly. I liked the presemo in lectures

Lectures were good.

The lectures had a variety of topics, most of them I really liked.

The lectures were quite interesting.

Like i said before, the lectures were really good. Order of lectures were suitable.

The lectures were super informative.

Homogenous catalyst lecture was quite hard to understand.

The lectures were good and the order of the topics was suitable.

I wish that may be lectures would be a bit slower and more elaborative. I understand that there is not that much time and there is a lot of information to cover but it was hard for me sometimes to grasp the material. I listened, took notes and participated in presemo tests during lecture but it was quite challenging to do quizzes afterwards and quite often I wasn't that good at presemos as well. The course was very interesting and I enjoyed it a lot, it was a bit challenging personally for me. *Thank you for this feedback. (It makes me think.)*

I liked the extra information at the end of slides.

Lecture was nice especially with the presemo interaction however it would've been nice if the answers for the presemo questions were saved somewhere. Perhaps included in the lecture note with the questions after the lecture. *Thanks for saying this. It would be easy to do (and I was planning to), but forgot.*

The lectures meted my expectations, but i missed diffusion. I think diffusion is a really important topic when it comes to heterogeneous catalysis. (inner and outer diffusion, Thiele Modul, Weisz-Prater etc.....) and some calculations on the effective reaction rate r_{eff} . *True, important. Diffusion is covered in CHEM-E7150 reaction engineering.*

Lectures were otherwise good and I liked the interactive questions but they were packed full of stuff. I think it would have been nicer to divide the lectures into two periods and not fit them into one period. *We earlier had 1.5 periods... It was a wish from students to have this course in one period.*

The lectures were difficult, but allowed be to learn more about catalysis. The lecture order was also suitable, as it was enabled me to learn the concepts in a progressive manner.

Lectures were good and I liked Riikkas clear voice. My english isn't the best so it helped a lot. Also panoptos were my life savers because I was able to check that later if I didn't understand something during the lecture.

Lectures was too much dias and too much contents because everything was read speed

Sometimes I had no time to answer in presemo, in start of the lectures. The link could be provided right in the start to the chat as a default, yet it's not hard to write either

The order of lectures was good and the lectures were good. I also liked that the lectures were recorded so I was able to revise some things when needed.

I was wondering why there is only information about content? why not to include complete study? like the material present in most of the books. It never gave a feeling that it's for a master level student.

They were alright. *I do not fully got what is meant with this feedback. But, I have not found a book that would be suitable for this course.*

The lectures were good and very clear. The teacher explains well. Sometimes I felt that there were a lot of extra information that I'm not sure if it was so important.

I really liked the gathered extra material in the end of the slides. With those it was easy to find more information of an interesting topic. *↓*

13. Feedback on the MyCourses Quizzes?

Number of respondents: 28

Vastaukset

I did not like the quiz assignment in this course. It was challenging and tricky questions. It makes the frustration feeling when i have put a lot of effort but then i got bad points because of tricky questions..

Good practice.

They were fine, sometimes a bit difficult.

I liked the quizzes.

Ok, sometimes a bit hard to either understand what you were looking for or find the answer.

Quizzes accomplished its job

The quizzes helped learn the material.

the early quizzes were great recaps and in the later ones it felt really hard to find information (of course they were harder topics)

Good way to rehearse lecture topics

Variable attempts should be allowed. ? You can submit many times (I think, at least?). But, evaluation is (and can be) made only once.

Overall, The quizzes were good. Few of them didn't meet The lecture content and it was hard to find The answers from internet (e.g., considering equipment's reliability vs. Calibration).

They were a good way to test what you learned from the lecture. It also was a good way to rehearse the topics.

To be checked next year, again

Was very nice to have them in addition to presem tests during lectures

Sometimes quiz questions can feel like trick questions, especially when the question asks for a very definitive answer about something that is slightly unclear (like many things in science). E.g. quiz 1, question 2: "True or False: All heterogeneous catalysts are constituted of an active component, a support, and promoters," while the slides describe them as the "three typical components" -> hesitancy to answer either way as there might be exceptions that I don't know about (especially as the course had just started), which can make the quiz frustrating. I want to emphasize that the vast majority of questions did not have this problem, but some did.

They were fine however few of them were felt as if they were conundrums. Let's say a statement with a lot of information and it was asked that whether the statement is true or false.

SUPER!!! Keep that, very good to review the course contents.

Okay quizzes for recap. I think these could have been open till the end of the course as some people studied the lectures on their own time and it would have been nice to do the quizzes also as training for the exam at the end of the course.

The quizzes (with correct answers) have been open ??? of course, evaluated earlier.

The idea of the quizzes was nice but maybe some questions could have a text box and the answer should have been written by yourself. It was easy just to guess or find the answer from the slides without really understanding the topic.

↳ This is a teacher workload issue: most quizzes must be automated.

The wording for some questions were confusing, but was still understandable.

This was one of the best things in this course. I learnt a lot by doing these.

Difficult

Quizzes enhanced my learning by repetition

Some quizzes were quite difficult and the I couldn't find the answers from the lectures.

The time window in which you could do the quizzes was sometimes short.

(= three full working days)

Okay

In general, the quizzes were nice. They were a good way for the students to learn about the topics and to think about the theory. However, it was annoying when some questions could be interpreted in different ways. In some cases, I had to spend a lot of extra time to figure out what the question was looking for rather than understanding the topic. For example, one question was "Catalysis researchers can only take advantage of the different characterization techniques if they are experts in each technique." and the correct answer was "False". In the lecture slides it was stated that "All methods are specialized and likely carried out by experts". So, the concept was quite clear, any chemist can be interested in the RESULTS of a given characterization technique but only an expert can CARRY OUT the characterization. So if a chemist has utilized the results of a characterization, they have taken advantage of it. In the slides it was only stated that experts perform the characterization. This was misleading, because of the use of "take advantage" in the question. Does "take advantage" mean being able to carry out the technique yourself or being able to interpret the results given by the machine? It felt like I had to make a guess to get full points from the task even though I understood the concept. Using more exact and direct words would have been better. For example "Characterization techniques are most likely performed by experts in that technique." would have been clearer. It is important for the learning that the questions and the materials provided are clear.

Quizzes were good, nice to refresh the lecture contents with quizzes.

Quizzes were nice, although, in all the cases I didn't find all the answers from the slides. But of course it was mentioned in the lectures that other internet sources can be used as well. However, I definitely suggest that quizzes will be kept as it is next year as well.

Thank you for the feedback.
Writing so that everyone understands,
is the target, but can never be
reached 100%. But we try to,
and also aim to improve.

14. Feedback on the Adsorption exercise?

Number of respondents: 24

Vastaukset
It was great! I learnt a lot!
Helps understanding.
I thought this was fine but submitting the exercises one at a time felt unnecessarily difficult
Exercise was clear.
It was the right level of difficult, but I'm not sure how much I learned from it.
It was a fun little calculation exercise
Very interesting.
This was good exercise and i think it taught The concept well. If the meaning is to teach basic things, i prefer this kind of exercise: not too easy or too difficult/soveltava.
Overall a very good exercise.
For me it was the least interesting part of the course, but nevertheless very important.
The exercise itself was well made and fun. I wish the collection of equations had been made available instantly (especially as I completed the exercise before it had been released and the exercise would have been a lot easier with the equations), and that the answers could have been submitted in a single file (9 pdf files is a lot to manage and made finding and fixing mistakes after submitting a lot more laborous)
Good, easy to understand and clear instructions
great to learn more about Langmuir isotherms and BET and the grading was very fair.
I had no time to do this.
Was interesting and gave me a deeper understanding on how to characterise.
It was good! Maybe the deadline was wierd because it was in the middle of the week. Also I didn't get all the points and now I don't know what went wrong because I didn't get any feedback.
It was a fun exercise and I learned a lot.
This was nice
Nice little exercise which recapped adsorption generally as a phenomenon
Suitably challenging
A great method to learn about. Challenges and task were good, The only thing which was great in course
It was an interesting exercise and it helped when learning about adsorption.
I liked that there were many small exercises instead of one large one. I also appreciated the help session that the assistants had.
My opinion is that the calculation exercises were quite easy. Maybe it can be considered is it necessary to give as much material with ready equations as it was given in the course. Of course it depends also what are the actual learning outcomes of the exercise.

hmm... the purpose was that giving feedback would be easier in the new way of submitting.

is

15. Feedback on the Hydrogen economy co-creation activity?

Number of respondents: 27

Vastaukset
It went quite a well! It was a good group project.
Challenging exercise.
Really interesting topic and well executed
It was an interesting topic. I personally learned a lot.
Hard to get good participation from every member. I don't know if it is the remote working environment or just inactive members.
I think the amount of points did not correlate with the time spent on this assignment. I spent a lot more time on it. But the topics and the assignment were interesting.
The group work wasn't really that helpful towards learning the course material.
This too was a fun little group project.
Good topic
Individual submission if other members are not cooperating.
This was ok. A bit separate Part of The course maybe
It was a good and fun task and the topics were very interesting.
Very informative, it was nice to do a group work with other students
I liked the format for the group work and how the work allowed for some freedom (and forced some choice) in the angle of approach. I wish the template would have had more information about the joint co-creation table (how and when to fill it, etc.).

it is future-oriented & applicable

I liked it, that we could take a topic out of the pool of topics. Maybe it is also an idea to give a group a chance to pitch own topics, which are not listed in the pool of topics. I was a little bit wondering why there is a limit in references. I thought it is always better to read more papers. *← limitation of time, there always are limits,*

Totally worthless. I did not get anything from this. Feels like this was just need to be done as a "filling" for the course. *and one must choose ⇒ good to*

Interesting topics. However, a bit unclear because there were so many different submissions. *get used to this's.*

It was fun, as I was able to research on a topic that I was not familiar with.

My motivation decreased a little bit because one of the group didn't listen in the meetings and didn't kept what he promised. At this point I feel like I don't need practise on group work so it felt only like extra load.

Ok

Longer presentations

I think there could've been more elaborate instructions on how to prepare the video presentation. For example, what Riikka gave as feedback during the last lecture (about the use of pictures being preferred over a lot of text etc.) could be included as recommendations in the instructions. It's good that you suggest Panopto as a tool and link to instruction on how to record a video with it. There could be an even more detailed example of how the videos have been done previously so that there would be a better idea on how to proceed. There could also be a reminder that the person who shares the video should check that the video can be accessed without having to separately request a permission. *thanks, lots of good thoughts here.*

many interesting topics available

A great activity to teach and learn in team work. A nice way to learn writing scientific reports.

It was fun to work in groups and to learn about new processes and catalysts. I think that this was a more important project than the adsorption exercise. The length of the video should have been limited to a maximum of 10 minutes instead of 6 minutes.

It was alright, not too much work. I think that exercises could do without the presentation part.

This was my favorite part of the course and mainly because of the topic (Hydrogen economy). The topic is hot at the moment and maybe it can be considered if the same topic could be held next year as well. *thanks! yes, which overarching topic to have, needs thinking.*

16. Feedback on the collecting of and dealing with continuous feedback during the course?

Number of respondents: 23

Vastaukset

It is ok method!

Helps lecturer.

Very good

Excellent way to improve things during the course.

A good idea

Good option to include and liked that it was not mandatory because sometimes I did not have feedback.

It's good that the feedback is responded to on the course.

It was great that the feedback was put into use almost immediately.

The best thing is a quick response to weekly feedback. *thanks! It is a bit of work ⇒ good if appreciated.*

At least many ways to give feedback. I did found useful to feedback of The quizzes to give instant feedback of The course. And this overall feedback is also useful.

It was good because it gave the chance to effect this course

Continuous feedback was a new thing to me. It was nice to be able to share thought twice a week, personally didn't use it that much, but I guess it was great help for other students to share their thoughts. Sharing feedback very helped to see that other students have similar struggles as me.

This is what i liked the most of this course. The teacher was so motivated to get feedback and to optimize the course and you could really tell that the feedback was taking in consideration. Thank you very much Riikka!

I liked that there was an easy way to give feedback during the course.

I didn't have a lot of feedback to give during the course but it's good that there is a possibility for it if some other people would have recommendations for improvement.

I liked that the feedback was presented at the start of every lecture, but I would prefer it if feedbacks were only done at the start, mid and end of the course.

Good!

It was okay, not much needed from students and it might help the teacher a lot. *Exactly!*

It was asked alot. Sometimes it is hard to give anything useful.

Good

A good system.

This was nice feature of the course but I didn't have time to benefit from this as much as I could have.

17. Feedback on the Panopto lecture captures?

Number of respondents: 23

Vastaukset
It was good way to watch lecture later.
Helps us to revise information.
Very good, I wish every course had these
Good thing if lecture is missed or if recap is needed.
Good addition, some lectures had an echo. BUT the recordings were a must for me due to overlap.
It should be kept even after covid.
They were great.
Highly appreciated in case of overlaps.
Panoptos were crucial and really good for re-cap The aspects at home!
The lecture captures were great. I liked the possibility to watch the lectures later if needed
Recordings are good to re-watch some parts of the lectures, but i think to be part in the zoom call is better. <i>yes.</i>
Appreciated the lecture recordings as a busy student I did not have that much time to actually be on the lectures.
It's good that the lectures are recorded.
it was good, as i was able to use them as revision.
Helped a lot because I couldn't make it most of the lecture in right time.
Good
Did not use them, out group used Teams capture. <i>? this comment I don't understand.</i>
The lecture captures were very good quality and easy to follow. I had some major scheduling overlaps so they were crucial for me to be able to complete the course.
Really good!
A very good resource for those who have multiple lecture or overlapping lecture at same time
Good to have recorded lectures available.
Really nice that the lectures are recorded, helps a lot if you want to review some things after hand or if you can't make it to a lecture.
This was a very helpful tool for me since I didn't have always time to participate the lectures.

18. Feedback on the use of Presemo activation during lectures?

Number of respondents: 23

Vastaukset
I did not like so much. It did not work for me.
Good challenge
great
I liked it and it made me concentrate on the lectures more.
Good addition to keep the interaction in the lecture
They were very good.
It was a good way to think about the topic myself
Perfect for wake-up
I found a bit annoying to jump to presemo too often. When The topic changes, then it is useful.
Use of presemo made the lectures more interesting and easier to follow
Great tool to check overall understanding of the topic during lecture.
I know that some students want more and more of presemo, but i think there were to may of this. From my perspective it would be better to have 1 or 2 presemo activation during the lectures and then explain the answers more detailed, because you could tell by some of the given answers that some students didn't listed carefully. We had more like 3-4 presemo every lecture and the teacher just said like this is right and this is wrong, but when students picked the wrong answer, <u>it is better to explain the topic again, maybe with a different kind explanation.</u>
Those days that I followed the lectures I enjoyed the presume questions. <i>Was tried, but not successfully, always. Time is also limiting.</i>
Presemo questions were really nice because they activated the listener and improved the ability to focus.
good way to engage students and do a sort of knowledge check during the lecture.
It was very good.
I like
Presemo was nice but as said the link could be provided in the start of each lecture <i>Students could also write it in chat. The teacher has many things to do.</i>
I liked these and found these very useful.
a great activity to involve students in lecture
It would have been useful to gather all the questions and answers in a separate file. The questions were really good for repetition for all the course topics.
Presemo is a good way to engage the students.
These were nice way to recap at the lecture. Because of my schedule, I mainly watched the recordings and Presemos really worked as a way to recap in those as well.

() This could be rather easy to do.


19. Feedback on the open-book exam?

Number of respondents: 18

Vastaukset
Its great!!
Nil
Did not make it yet.
I think open book exams are a good option especially during covid.
Havent had it yet.
Very helpful in COVID-situation.
Open book exam is good, because you don't have remember all the things in detail
I think open book exams are the best format: flexible, much less stressful
At my home university we get the old exams from the last year to prepare for the exam. Is it also possible at aalto. I think this would be better, then the students know which parts of the course are imported to the teacher and important for the exam.
Not yet taken the exam but I have no idea what to expect there. Just saying I'm not goin to the exam with great confidence.
This should be continued, as the course is rather content heavy.
Good! I think that open-book exams corresponds the reality more than traditional. Even in working life, all information is available online.
Too difficult
Open-book exam worked for me and the questions were okay for on-line exam I think.
Exam was tough as compared to lecture. the teaching method was just to give information to student while exam was more about detailed learning which were never taught in that detail.
It was carried out very well and I think that it was a suitable exam for the circumstances.
Not too difficult, I liked the exam.
Mainly the exams have been open-book exams in my master studies they have always worked well.

20. Other feedback - I like

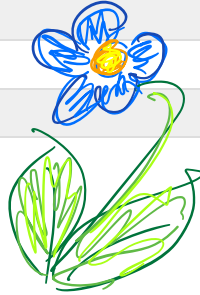
Number of respondents: 11

Vastaukset
I like the adsorption exercise.
I like the pace of the course.
I liked the idea of recording the presentation but we experienced some technical problems trying to record it.
The course and the lectures
I liked the quizzes and the presemo.
I liked how motivated the teacher was for this course. The course was very student friendly and feedback was taken in consideration, therefore the quality of the course was way higher than other courses. GOOD JOB !!! 
i like that different topics regarding catalysis and hydrogen economy were explored and discussed. I also like that hydrogen exercise was quite intuitive.
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I liked the course
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21. Other feedback - I wish

Number of respondents: 10

Vastaukset
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I wish for exam practice questions.
hydrogen assignment was less time consuming
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i wished to learn more about diffusion and a little bit more time for the preparation for the exam.
I wish that there can be a heavier weightage on the continuous assessment.
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I wish many people take this course
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Thanks!
Riikka Puumonen
8.3.2022