

CHEM-E1130 Catalysis (2021-01-11 - 2021-03-03)

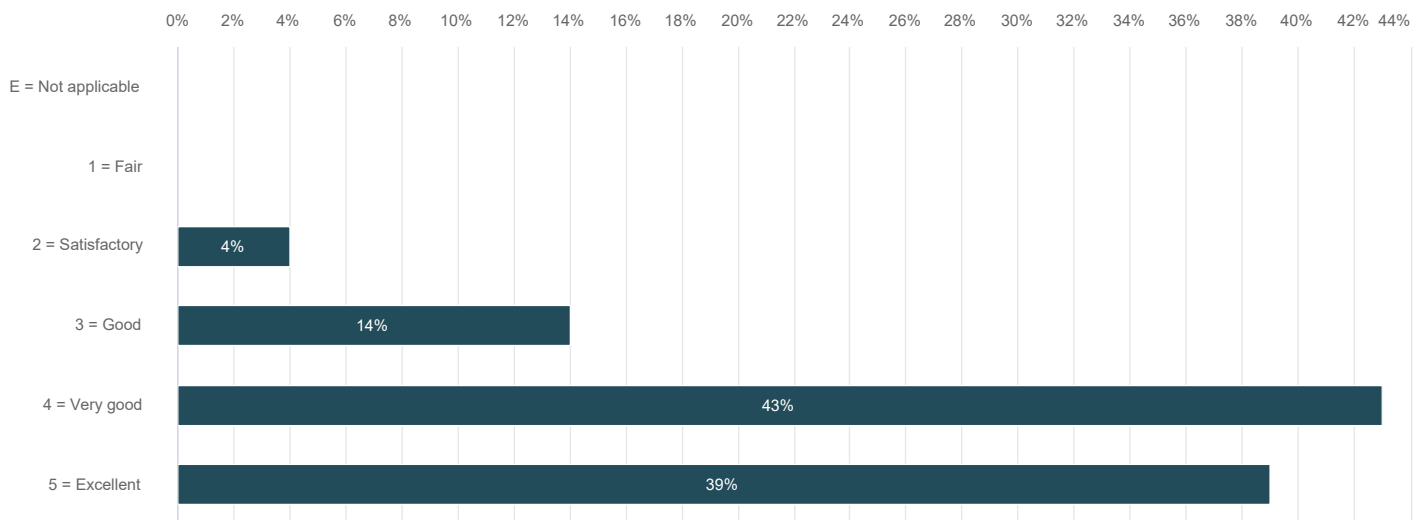
Perusraportti

CHEM-E1130 Catalysis (2021-01-11 - 2021-03-03)

Vastaajien kokonaismäärä: 28

1. My overall assessment of the course

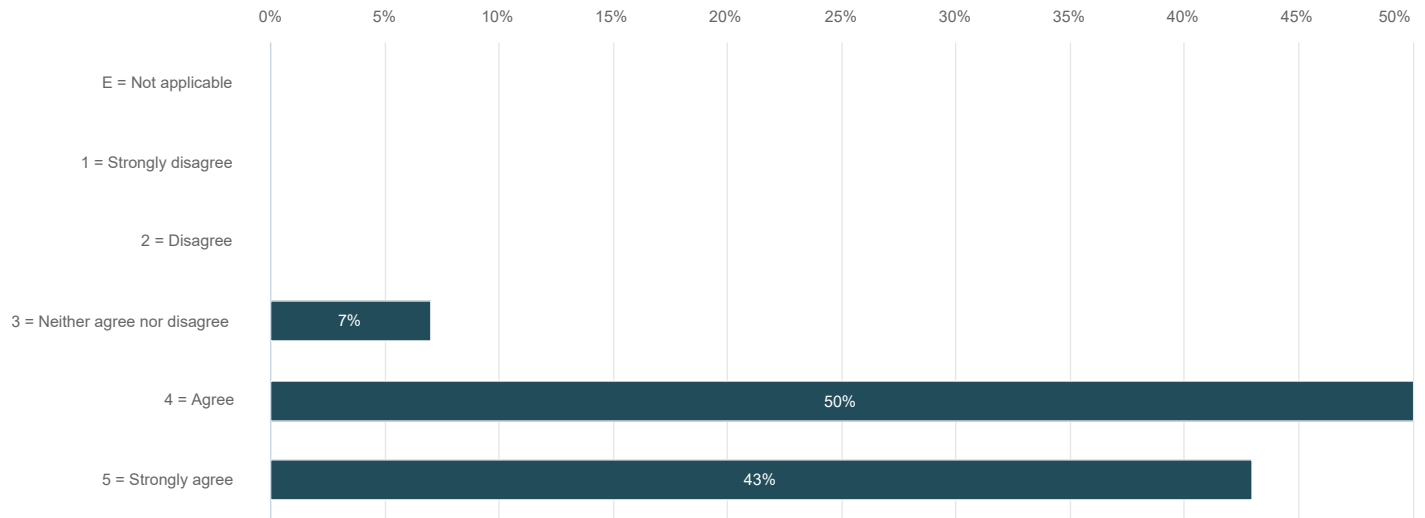
Vastaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Fair	0	0,0%
2 = Satisfactory	1	3,6%
3 = Good	4	14,3%
4 = Very good	12	42,8%
5 = Excellent	11	39,3%

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

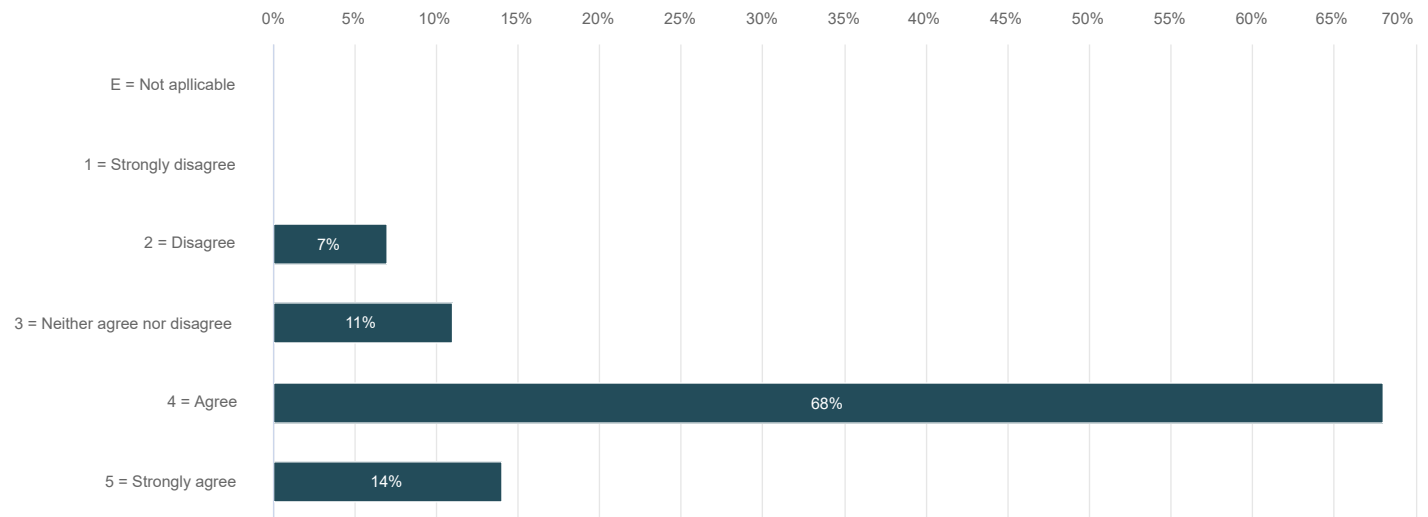
Vastaaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Strongly disagree	0	0,0%
2 = Disagree	0	0,0%
3 = Neither agree nor disagree	2	7,1%
4 = Agree	14	50,0%
5 = Strongly agree	12	42,9%

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

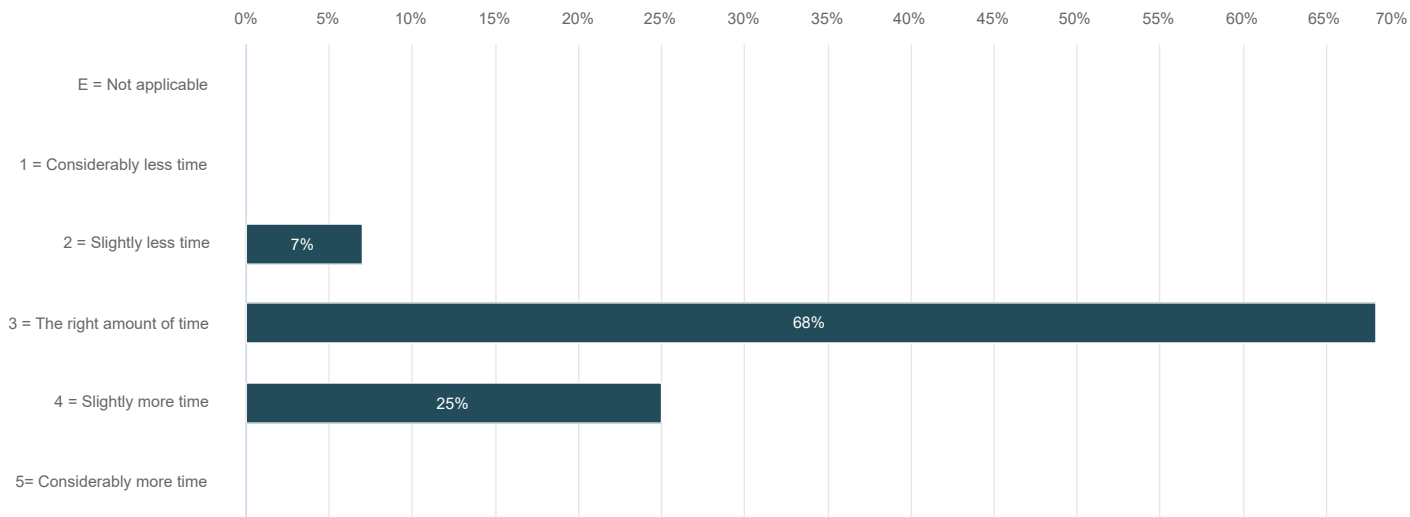
Vastaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Strongly disagree	0	0,0%
2 = Disagree	2	7,1%
3 = Neither agree nor disagree	3	10,7%
4 = Agree	19	67,9%
5 = Strongly agree	4	14,3%

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

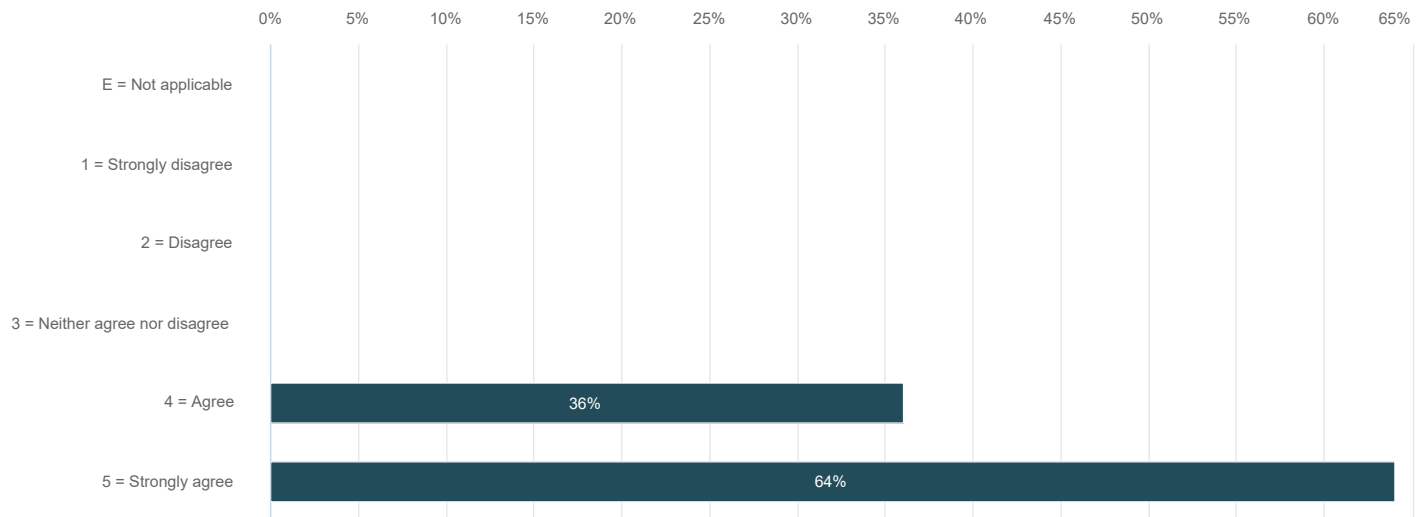
Vastaaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Considerably less time	0	0,0%
2 = Slightly less time	2	7,1%
3 = The right amount of time	19	67,9%
4 = Slightly more time	7	25,0%
5 = Considerably more time	0	0,0%

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

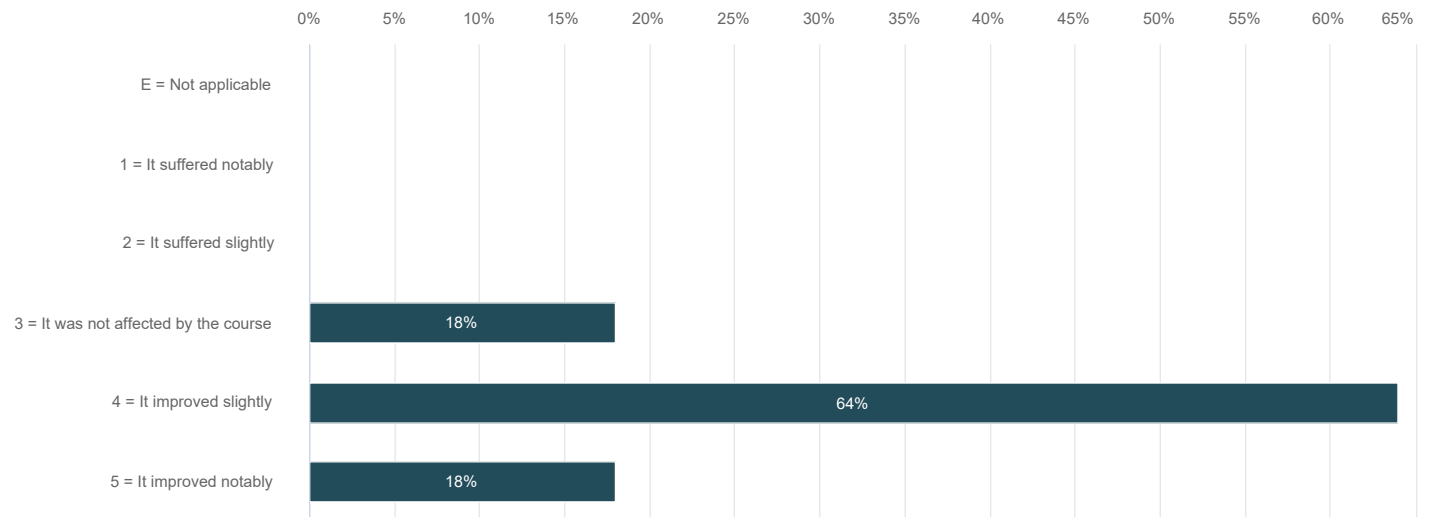
Vastaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Strongly disagree	0	0,0%
2 = Disagree	0	0,0%
3 = Neither agree nor disagree	0	0,0%
4 = Agree	10	35,7%
5 = Strongly agree	18	64,3%

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

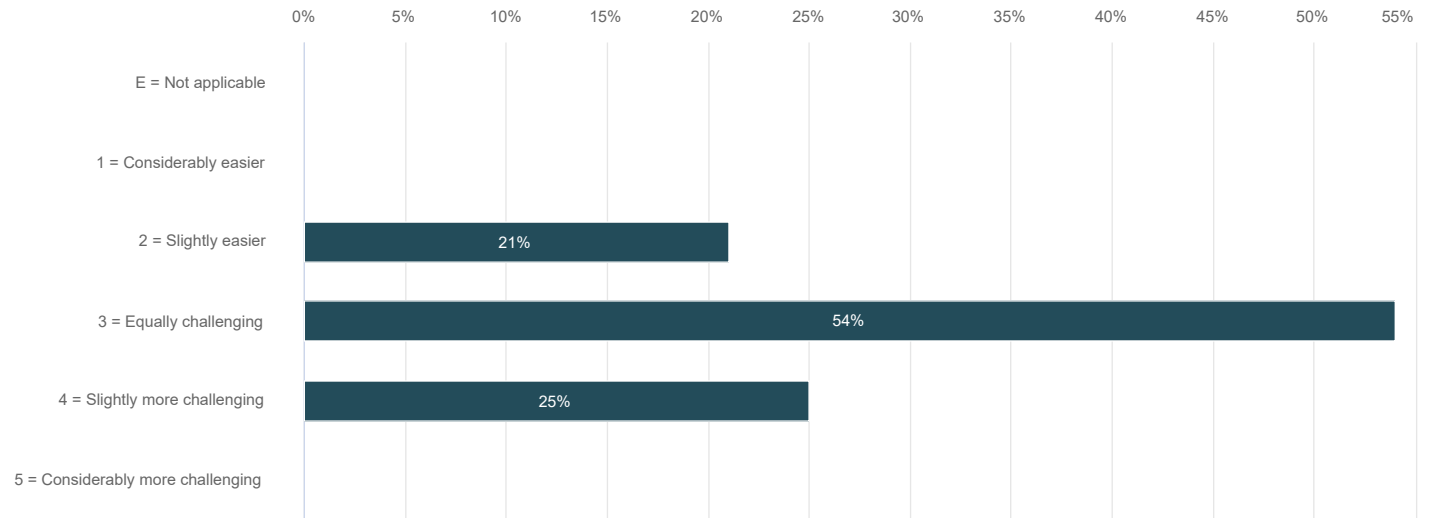
Vastaaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = It suffered notably	0	0,0%
2 = It suffered slightly	0	0,0%
3 = It was not affected by the course	5	17,8%
4 = It improved slightly	18	64,3%
5 = It improved notably	5	17,9%

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

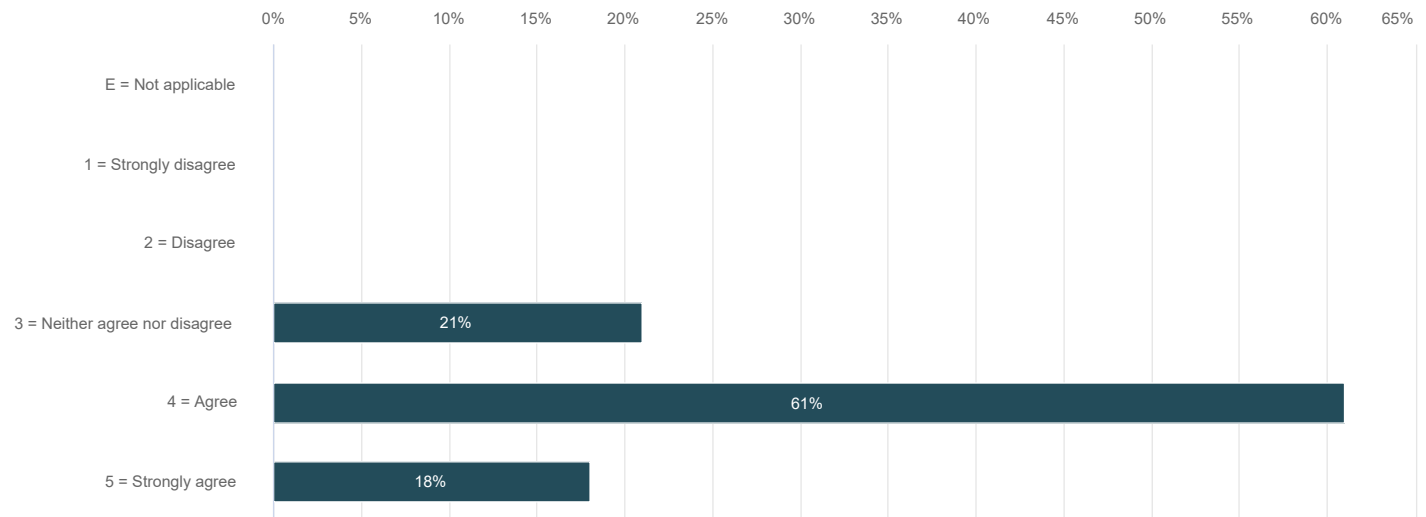
Vastaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Considerably easier	0	0,0%
2 = Slightly easier	6	21,4%
3 = Equally challenging	15	53,6%
4 = Slightly more challenging	7	25,0%
5 = Considerably more challenging	0	0,0%

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

Vastaajien määrä: 28



	n	Prosentti
E = Not applicable	0	0,0%
1 = Strongly disagree	0	0,0%
2 = Disagree	0	0,0%
3 = Neither agree nor disagree	6	21,4%
4 = Agree	17	60,7%
5 = Strongly agree	5	17,9%

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).

Vastaaajien määrä: 20

Vastaukset
The course was best among the five courses I previously attended or I am attending. The teacher knows very well, how to keep us engage, motivating along with learning.
I liked The varying contents, keep it up!
Nothing to add.
The course was well arranged. Most of the time, the information required by the student could be easily found in the course material. The use of 'presemo' during lectures helped to stay attentive in class.
I liked especially the Group work. It was well organized. Course material was good, even though quite heavy.
Best course in the major
Group work was not very useful. Individual homework was.
Other method of evaluation might have worked better than an online exam. For example a learning diary etc.
Laboratory exercises or educational lab videos would be great to understand practical applications of the theory.
Good interactive lectures with presemo.
This was good!
No overlaps with other courses. For a one period course very reasonable work amount.
I think that the course was well executed.
The quizzes, presemos and assignments supported my learning.
This was one of the best courses I have completed at Aalto University. This is mostly thanks to Riikka, who clearly puts a lot of effort in this course including lecture slides, assignments, quizzes etc. It is clear that she also wants students to enjoy this course and creates nice assignments that feel motivating. The best thing is that everything about this course is so clear and all information can be found on mycourses. I would hope every course was as good as this.
For me. The 6 slides material and structure content is perfect. I also like the teaching of professor and the presemo question. However, the methanol economy workload is a bit heavy because of the overlap deadline a bit with other course (Laboratory project). However it's still good to have the methanol economy.
I liked that the assessment of the course consisted of several aspects and not just an exam.
I'm happy with the course and don't really have much to add.
Everything was very well planned. The covid situation has affected my study motivation so I didn't get as much out of the course as I would have hoped but it's not the courses fault.
I think the constant feedback requested during all parts of the course really helps to highlight to the teachers on what area might need improvement when this is come across by the students.

10. Feedback on the MyCourses implementation. In 2021, the aim was to make MyCourses as well-working as possible for students and teachers alike. 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.

Vastauksen määrä: 24

Vastaukset
I am satisfied with MYCo implementation and I found every thing related to my studies. However, I had difficulty downloading lecture slides from my desktop, so I had to download first in my mobile and then transfer to PC.
I liked The fact that everything was in the MyCourses, If IT would be possible I would add some subfolders to categorize material under The topics (in The stop down menu)
I found everything.
I think the mycourses implementation was very good compared to other courses. This course could be arranged with video lectures and self learning material
More or less similar to previous years. A lot of materials on the course page. It would be nice to group them into easily traceable folders for each part of the course.
I think the implementation was successful. The material was easy to find, and the structure is clear. But, why didn't you grade the adsorption exercises in the return box but in some random file? That was not so functional idea in my opinion.
All necessary information was easy to find from MyCourses. Unfortunately, this is not the case at all courses where all information is piled on the course frontpage.
Very well done. Only the peer assessment part was not good, I got 1 point and my other group members got 2 for the same work and know I am missing one point in the evaluation part!
It was good. You have seen much more effort than other lecturers in general
The mycourses sites were very well organized. I think the mycourses sites were better in my other courses.
MyCourses has been very well structured, the best I have seen this year. I found everything easily
MyCourses was organized brilliantly, no improvements needed.
I think the mycourses implementation was done very well.
I think this was done well
Mycourses implementation worked very well, even if mycourses is slow sometimes. Teacher handled the online course well.
I think that the feedback system worked quite well and some improvement ideas were even implemented during the course.
MyCourses worked well in my opinion.
The MyCourses implementation was exceptionally good compared to most courses. I find one-per-page a better format for distributing slides compared to 6-per-page, as students can format them however they like. The workshop module was a bit confusing, as it displayed 0/2 for everyone (most people?) in addition to the correct grade.
Everything on mycourses worked well and I appreciate it when everything can be found from the same place. It was nice that the evaluations from all assignments could be found in the mycourses evaluation section. Everything could be easily found. Compared to other courses, this course uses mycourses in a much more advanced way. The only thing that was hard to find were the Panopto recording links, since they were so small and in a weird place. So in my opinion, it would be better to have them on the normal page as links, so that they are easier to find.
From my point of view, Mycourse of Catalyst course is great. I hope it will continue like this. Just one small thing that maybe the recording video could be placed in separate folder, to find it easy.
MyCourses implementation worked well. Everything was found easily.
It was a bit hard to find the panopto recordings at first. On other courses they've been in the same section as the lecture slides. Now they were kind of hidden in the bottom right corner.
Everything else worked well except the exam. Some things were hard to find but this is only because every teacher has their own way of organising mycourses.
I think the MyCourses page for this course has been organised to be able to find the materials required easily. This course is one that really uses all the functions that MyCourses can offer. I think the workshop function that was used for the peer review is relatively new to teacher and hence there was some hiccups when it was being used in the exercise. I guess some additional support from MyCourses team could be provided to the teachers to be able to better use this function.

Vastaukset ? Why could this be ... !?

individual feedback asked

↳ The points have been combined & average of group's points given to all group members! I have tried to communicate this during course, apparently the info had not reached the student

learn to use Workshop better. Obviously need to

↳ Panopto recording placement could be better (so far, the default placement used, at the bottom right of ... each page?)

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

Vastaaajien määrä: 23

Vastaukset
It was awesome.
Yes they did, actually I was hearthbroken as i did not know the biorefining catalysis course was cancelled :(
Lectures were good and clear, well structured.
Lectures were well prepared and quite a good interaction between the students and teacher via 'presemo'.
Lectures were great! Thanks to Riikka. Not so much to say about them, I think they were well given.
The lectures were clear and interesting. Good job!
Good lectures and the presemos did a very good job to keep me focusing on the lecture
Lectures were good, except the charcterization 3. <i>(Note: here, the lecture was cancelled & we used last year's record + new presemos)</i>
The lectures met my expectations and the order was good in my opinion. I might have wanted a more comprehensive recap of the lectures in the end.
Lectures were sometimes hard to follow but maybe that's not the lecturer's fault. Maybe more active presemos?
Lectures were nice, but I would put Catalyst Characterization 1-3 into direct order, meaning that the lectures will follow each other without placing other lecture topics between them.
Good interactive lectures with presemo.
I think the lecture slides could be improved. They were quite crowded and hard to follow.
Lectures were engaging and informative. The lecture notes are a bit hard to understand without the lecture reference, but not impossible to understand. <i>+ here is the idea recording</i>
The lecture slides were clear and easy to follow.
Lecture contents were good and order of lectures was suitable.
The lectures were great and the presemos made them more engaging.
Lectures were all good, and I liked the Presemos. Much better than inefficient breakout rooms that no one likes. Lecture slides were clear and it was evident that much effort was put into creating them and that they were updated to this year. It was nice to have a guest lecturer from Neste.
The lecture content is well-structure and over my expectations. I really like it. Thank you.
Lectures were good and interesting. It was nice to have a visitor lecturer, especially from Neste. It was also nice that in the beginning of every lecture, the learning goals were presented clearly.
I really liked how the lectures were clear and easy to follow. I felt that they were well structured and they progressed logically.
The lectures were well planned.
I think the lecture was conducted quite well. The order of lectures felt alright.

12. Feedback on the MyCourses Quizzes?

Vastaaajien määrä: 24

Vastaukset
Full of learning.
In general they worked well
The quizzes supported my learning every week, and I think they had a major, positive impact on how I did on the exam.
They were good but sometimes really hard to do.
I found them useful to recap the contents of the corresponding lecture.
These were good! Good way for an overview of the lectures.
I liked the quizzes and they improved my learning.
Good maybe too many
ok
Quizzes were good but there could have been a bit explanations about correct answers.
Sometimes they were kind of off-topic or you really couldn't find the exact information from the lecture slides. Some questions were also maybe irrelevant to the topic.
Quizzes were quite challenging, but going through them right before the exam helped to understand the big picture of the course and what to study more.
Quizzes were all right
Good!
Quizzes worked well. They helped me to keep engaged with the course and actually helped learn the subjects of the lectures well.
The quizzes were quite easy in the beginning of the course and doing them did not require much effort. Towards the end of the course, they became more challenging and enhanced my learning more.
Some quizzes were trickier than others, and information needed was sometimes hard to find in the lecture slides. However, they improved learning and were a good way to recap.
Quizzes were very nice and I think it is a nice way to collect points for the course. Simultaneously they promote learning and studying the lecture material. I think the quizzes also makes studying for the exam easier as you have already looked through the slides ones before and actually thought about the contents.
Sometimes it's a bit difficult. But in general, it's good and helpful
The quizzes were very useful! They supported the lectures and overall learning. It was also nice that by completing the quizzes, some points could be earned.
They were very useful.
I feel that they supported my learning as a way to review the lecture material.
These were very good!
The mycourses quizzes helps to indicate how well I have grasped the topic. I think most of the questions had been well formulated and challenging enough to test our knowledge.

13. Feedback on the Adsorption exercise?

Vastaaajien määrä: 23

Vastaukset
Again, full of learning.
Nice addition to the course, additional exercises to replace the exam could be investigated further
Too difficult for me. !
This exercise was very useful. Adsorption is a key phenomena in catalysis researching
I think in some cases the instructions were not clear.
I have to say it was quite easy to be a learning exercise for a Master's degree course. Could have been more challenging.
For me, it was crucial that we had that one exercise via zoom. It helped a lot and without it, many things would have stayed unclear.
Very good (help session)
Very good, I had to really study the material to understand it. Which is very important.
-
It was hard to find help for this exercise and the help session was awful. I would suggest summer together exercise to be done before this- I read the critique but cannot quite understand the suggestion
Challenging.
Felt kind of out of place but I managed to get it done.
This was the best part of the course
This exercise was well structured. Taught well about physi- and chemisorption. Good instructions aswell.
This exercise deepened my understanding on the adsorption isotherms and I found the exercise quite fun.
There were some errors in the exercise, which made it a bit confusing and could then lead to loss of points. Otherwise it was good for learning. We tried to correct during course and make sure students would not loose points because of teacher's mistakes
Very nice exercise. Not too extensive or impossibly hard. I really appreciate the clear instructions and that all formulas were given. I would have found it annoying to waste time on finding formulas and googling a lot of stuff. Now the exercise was very straight forward and taught how to apply isotherms and what information can be obtained from them.
It's great.
The exercise was suitably laborious.
I liked that the instructions were clear and not too difficult to follow.
It was a good exercise
The adsorption exercise was found to be alright.

14. Feedback on the Methanol economy co-creation?

Vastaaajien määrä: 22

	Vastaukset
Its something you call relevance, linking content with new horizons. Thumbs up!	thanks!
The project is could be more educative If it was longer.	(sure, but the time we can use for this, is limited)
Didn't take too much time, the workload was good.	
Very interesting task.	
I like it a lot. I would suggest to have some similar things in the future.	
Good exercise. Perhaps in the future, it would be nice to focus more on at least one of the major catalysis topics deeply such as industrial catalyst preparation or deactivation instead. I found the exercise to be more general rather than focused on catalysis. Nevertheless, quite useful.	
I liked the group work very much! I would recommend to keep it that way for next year, it worked very well for me!	
Did not learn much. As I had to study only one aspect of one process.	the purpose was, too, that you will look at the big picture of what the group & course do!
I liked the methanol economy co-creation. It has very teaching.	
I think it was a great way to learn new	
Nice exercise, but maybe a bit too small for a group of 5 people, as the tasks were hard to distribute equally.	you can also have two students looking at same info & combine compare &
Was a fun group project.	
This helped me learn a lot	
It was good, even if very short. Still engaging.	
I liked that there was a common main topic for all the group works. This provided a deeper understanding of methanol economy.	
The methanol economy co-creation exercise was good, but was a bit fast-paced.	
I liked that the group work did not require too much time. Also it was nice to do a literature review and write a report as many group works include mostly calculations. It was also better to watch videos than have every group presenting for 10 min.	
As I mentioned, the workload is overlap with other course deadline a bit. However, this activity is great and hope that it could continue for the next year.	
The topics were interesting. The length of the presentation video was very short, one minute per group member would be suitable.	Thanks. We should give a bit more time next year.
I think the topic was very interesting but I didn't really enjoy making the video or see the point of it.	
It was fine.	It is important that you learn to present. Live presentation is another
The time allocated for group video should be reconsidered as discussed during the lecture session and feedback that was sought then. The instructions given in the methanol economy co-creation could be made slightly more clear, e.g. bold words for key points to be noted.	

option, with its own challenges

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

Vastaaajien määrä: 19

Vastaukset	
Appreciable.	
This was appreciated, not all course teachers care this much which is a pity.	
very well managed and communicated	⇒ It is all voluntary, though!
Although it may be useful to develop the course in the right direction, for this course I found it a very exhausting and daunting exercise. I think the final feedback would be credible and sufficient.	
This was a great idea, the first course where I have seen this concept.	
-	
-	
It was great	
It's good to have the ability to give continuous feedback.	
I did not give that much feedback	that is fine, too!
I didnt participate in it, but the option was nice.	
Going through the feedback was a nice way to start each lecture and it gave me the impression that our feedback is actually taken into consideration.	Yes, it was! Thanks!
It is good that feedback is appreciated, and that you can give it whenever. It was a bit unclear though what was the feedback that students get points for giving since there were so many options.	
The feedback form after the quizzes was useful and it was interesting to see the feedback (with teacher's comments) at the beginning of lectures.	
Professor is really good on this. I think this course has the best feedback support until now.	
It was easier to give feedback when it was in connection with the lectures and quizzes, however feedback was maybe a little unnecessarily often asked.	
I think it's good that our feedback is heard and also answered.	⇒ the option to give feedback was open all the time
It's really nice that the teacher really wants to make the course good.	
I think it was a good idea to collect and also address the feedback that had been received throughout the duration of the course. However, I felt at some place, it became a little too frequent and I felt I had a little feedback fatigue.	

16. Feedback on the lecture captures (Panopto, Zoom)?

Vastaaajien määrä: 22

Vastaukset
Excellent.
Excellent, i did not use much as it was new for me but The current situation demands it.
I appreciated the Panopto videos since I wasn't always able to attend the lectures.
Easy to use platforms
Very good.
Panopto lecture captures worked fine and were useful.
It was nice of the teacher to record the lectures, I viewed the recordings many times after the lectures to recap few things
it should be necessary
I think panopto videos worked well at least from those lectures I revised with the recordings.
Couldn't find the panopto easily. It could be more easily said where you can find the recordings
Nice.
-
I did not attend lectures
I didnt view them personally.
It was good that the lectures were recorded to panopto if, for some reason, one could not attend the lecture.
Panopto recordings were good and I used them a few times when I missed the lecture or when I was preparing for the exam and something was unclear.
It's good for me.
It was really good that the lectures could be recorded.
It was really helpful to have the possibility to rewatch lectures afterwards!
They worked very well and it's very helpful to be able to go back and listen to some parts again that you don't fully grasp during the lecture.
Zoom is good I don't like panopto that much it could just be the zoom recordings. ⇒ the lecture structure is saved in
The lecture captures was very useful to have as it allow me to be able to view the lecture at another time to help with my revision of the modules. Panopto's the

Panopto recordings are easier to navigate

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

Vastaaajien määrä: 22

Vastaukset
Best thing to engage students.
Provided rhythm on the lectures, and it lower The threshold to take a part on the lecture
The presemo questions were good, because 2h of listening someone talking without doing anything gets me sleepy.
Very helpful
This presemo is really good. Please use it in the future. It makes the lectrues much more interesting
Very good. Quite useful indeed.
Presemos were good!
They kept me awake!
good
I liked presemo. I think it might have been a good idea to give answer also in a file after wards. <i>Time!</i>
5/5
Very good
I did not use
It was engaging and helped to understand some things.
I really liked the use of presemo in this course. It made me pay closer attention during lectures and made the lectures more interactive.
Worked for me.
Definitely keep presemo, even if lectures are in class. They are nice activating exercises during the lecture and in assessing if you understood the relevant concepts.
I like this activity. It help student to remember the key information during the lecture.
Big thumb, helped to focus on the lecture :)
I think it really helped to have a small recap every now and then and it allowed me to be able to better process the information. They also worked as nice little pauses.
It was good.
I think the use of Presemo to ask pop quiz is a really good idea. It helps to make the lecture more interesting and also tell me how much I have learnt during the lectures.

*- thanks!
A clear keeper!*

18. Feedback on the materials for the exam?

Vastaaajien määrä: 17

Vastaukset
Very Good.
Nothing to be added.
Just ok.
everything was in the materials
The lecture slides were good.
Great wrap-up lecture! It would be much more difficult to understand the big picture of lectures without the wrap-up.
Materials were all right
There was too much information which was not asked in the exam (I can't ask it all, can I.)
Ok materials, could have been a bit more indepth instead of vague lecture notes. This could make sense to some parts.
I think that lectures were quite good as study material for the exam. If there was something unclear in the slides, I could just watch the lecture capture where the issue was explained.
Lecture slides are fine.
The exam was more challenging than expected. Even though I studied the material beforehand, it was difficult to find the information I was looking for.
The lecture slides served well.
It's well-structure and I like the 6 slides material.
For the exam, all the necessary information was found on the lecture slides
I think the lecture material was sufficient for preparing for the exam.
Overall, the materials are found to be clear and ample to prepare for the exams.

19. Feedback on the on-line exam? (Please answer only if you give this feedback after you took the exam)

Vastaaajien määrä: 19

Vastaukset
It was good and was checking all learning outcomes of this course.
Im not a fan of lectures in general, but the exam on quizz form worked nicely.
Well structured, 4h was enough of time taking the exam.
It was ok. However, it would be nice to spread the marks more uniformly for purposes of time management. (I don't quite understand this?)
I think the exam was fine, challenging enough but compared to the exams of previous years, a bit heavy maybe? (I checked tenttiarkisto before doing the exam)
The questions felt challenging even with all the materials, so the questions were good. Hmm... One was never allowed to take the exam with...?
easy because I could find the answers from the materials. It was nice to have 4 hours so I could have breaks
-
It was well structured and I learned new things Great!
Very good and it was great to have 4 hours to complete the exam instead of traditional 3 hours.
Exam was well made
This was done well
The exam was good. The larger questions were suitable for an open-book exam, because it required to understand the information instead of just copy-pasting. Thanks! That is the purpose
The online exam worked well and there were no issues for me.
The exam was a good online exam, not too easy so that answers could directly be found in the material. Thus, I think studying for the exam was really necessary, which was good.
From my point of view. I think the exam is quiet long. But the question is interesting.
The online exam worked well.
As an online exam, the exam was not too easy but also not too hard so well done!
Everything worked fine.

20. Feedback on the course evaluations? For example: Were the points given for the various parts fair?

Vastaaajien määrä: 19

Vastaukset
yes, they were fair.
I believe so.
yes
I think they were fair enough.
I think the points were fair
Peer assesment got too much weight, not fair at all
Yes
I think the evaluation was good. Maybe the part given for the quizzes was a bit high.
Yeah I think so, good that there was not that much emphasis on the course exam
Points felt pretty fair overall
They were good!
The points given were very fair. Quizzes gave points even if some answers were wrong. Adsorption exercise gave a good amount of points for its workload (and its importance of teaching about physi- and chemisorption). Exam had good amount of impact on course grade.
In my opinion the evaluation was fair.
Yes, only I had hoped for a corrected version of the adsorption exercise or more individual feedback on what exactly was wrong. Now I don't really know what went wrong.
I think it's fair.
Yes, i am happy with the evaluation.
I felt like one of the group members was inactive and did less than the others for the group work. I assume we are still going to receive the exact same points from the group work which feels a little bit unfair.
I think each part was weighted fairly.
Was very good

0-2 pt, of total of 160 course points: I have tried to keep it not too large. (And note that the points the group members received, were averaged.)

→ should not be the case (was for one case, but this was corrected)

Thanks.
To be developed.

in principle

⇒ Yes, everyone got the same points. However: we did ask for feedback on this in the individual reflection report. Here you could give feedback, with names included.

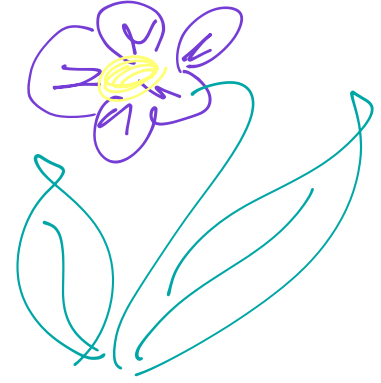
(Also, if one did not participate in the group activities on the basis of the notes, points not given.)

21. Other feedback - I like

Vastaaajien määrä: 8

Vastaukset
I like everything in this course.
I liked the effort and care put in to this course.
I like the continuous effort put in by the teacher. It was very motivating.
-
Thank you for a really nice course!
-
Thank you for this course and all the effort put into it!
I like that the course was set up in a way that really tried to support my learning.

Thank you!



22. Other feedback - I wish

Vastaaajien määrä: 9

Vastaukset
I wish that to use the knowledge gained during this course to my practical life soon.
Nothing comes to my mind.
None
-
-
-
-
I wish every course had lectures that are as well thought out as on this course.
I wish I would have been able to take this under normal circumstances since the motivation to follow the online lectures is not that high at this point.

thanks
if

↳ let's hope that things gradually get back to such that in-person interaction is possible & usual.

Comments by
Pirkko Puumala,
14.5.2021

