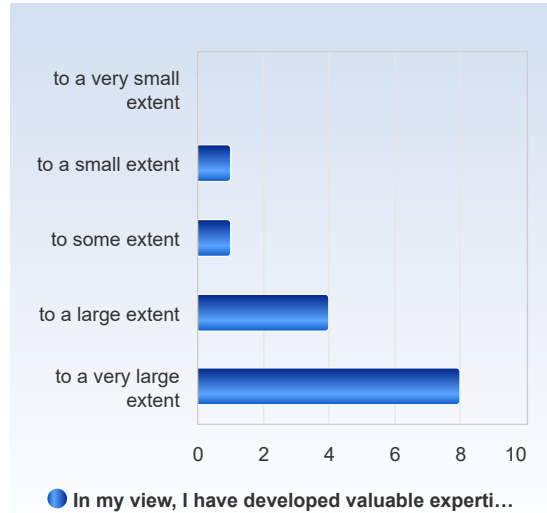


## 4TX015 Laboratory Animal Science in Theory and Practice VT24

Respondents: 19  
 Answer Count: 14  
 Answer Frequency: 73,68 %

### In my view, I have developed valuable expertise/skills during the course.

In my view, I have developed valuable expertise/skills during the course.	Number of responses
to a very small extent	0 (0,0%)
to a small extent	1 (7,1%)
to some extent	1 (7,1%)
to a large extent	4 (28,6%)
to a very large extent	8 (57,1%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, I have developed valuable expertise /skills during the course.	4,4	0,9	21,3 %	2,0	4,0	5,0	5,0	5,0

### In my view, I have achieved all the intended learning outcomes of the course.

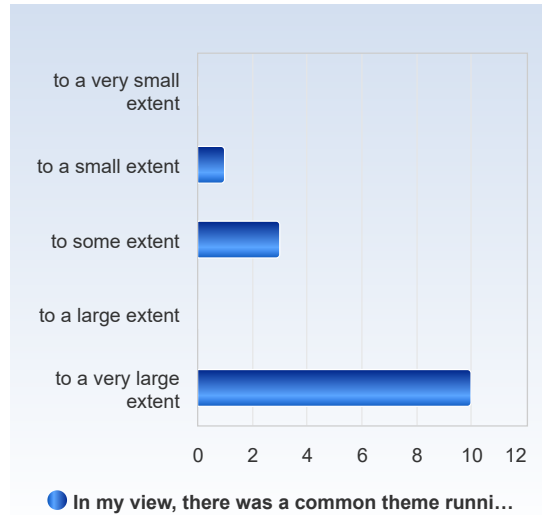
In my view, I have achieved all the intended learning outcomes of the course.	Number of responses
to a very small extent	0 (0,0%)
to a small extent	0 (0,0%)
to some extent	3 (21,4%)
to a large extent	8 (57,1%)
to a very large extent	3 (21,4%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, I have achieved all the intended learning outcomes of the course.	4,0	0,7	17,0 %	3,0	4,0	4,0	4,0	5,0

**In my view, there was a common theme running throughout the course – from learning outcomes to examinations.**

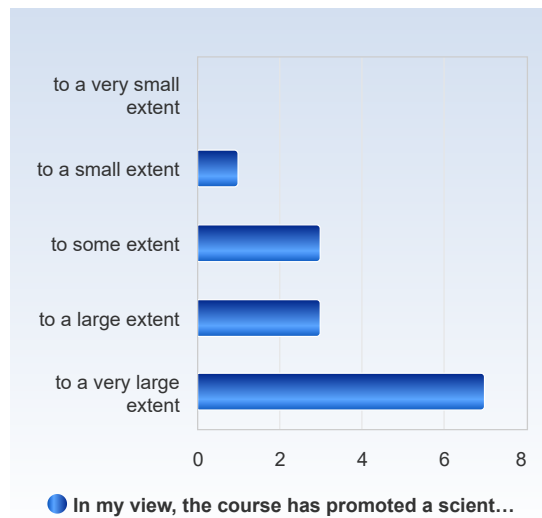
In my view, there was a common theme running throughout the course – from learning outcomes to examinations.	Number of responses
to a very small extent	0 (0,0%)
to a small extent	1 (7,1%)
to some extent	3 (21,4%)
to a large extent	0 (0,0%)
to a very large extent	10 (71,4%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, there was a common theme running throughout the course – from learning outcomes to examinations.	4,4	1,1	24,8 %	2,0	4,0	5,0	5,0	5,0

**In my view, the course has promoted a scientific way of thinking and reasoning (e.g. analytical and critical thinking, independent search for and evaluation of information).**

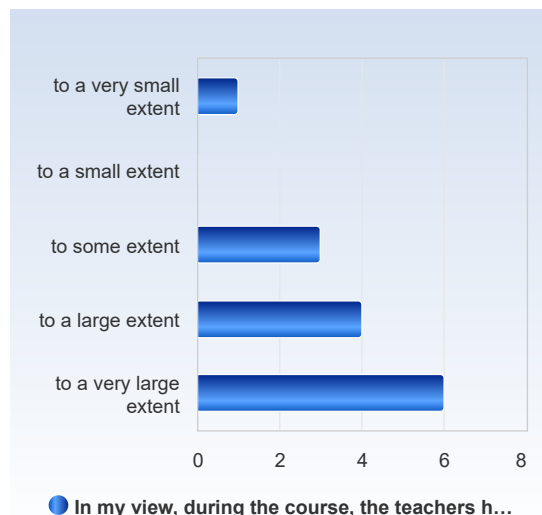
In my view, the course has promoted a scientific way of thinking and reasoning (e.g. analytical and critical thinking, independent search for and evaluation of information).	Number of responses
to a very small extent	0 (0,0%)
to a small extent	1 (7,1%)
to some extent	3 (21,4%)
to a large extent	3 (21,4%)
to a very large extent	7 (50,0%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the course has promoted a scientific way of thinking and reasoning (e.g. analytical and critical thinking, independent search for and evaluation of information).	4,1	1,0	24,8 %	2,0	3,5	4,5	5,0	5,0

**In my view, during the course, the teachers have been open to ideas and opinions about the course's structure and content.**

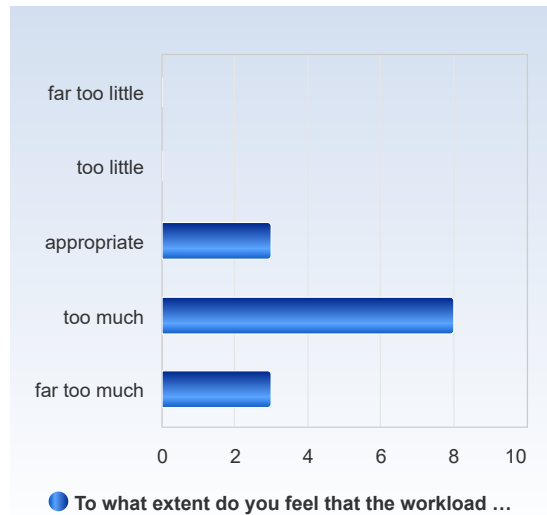
In my view, during the course, the teachers have been open to ideas and opinions about the course's structure and content.	Number of responses
to a very small extent	1 (7,1%)
to a small extent	0 (0,0%)
to some extent	3 (21,4%)
to a large extent	4 (28,6%)
to a very large extent	6 (42,9%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, during the course, the teachers have been open to ideas and opinions about the course's structure and content.	4,0	1,2	29,4 %	1,0	3,5	4,0	5,0	5,0

**To what extent do you feel that the workload during the course was reasonable in relation to the extent of the course/number of credits awarded?**

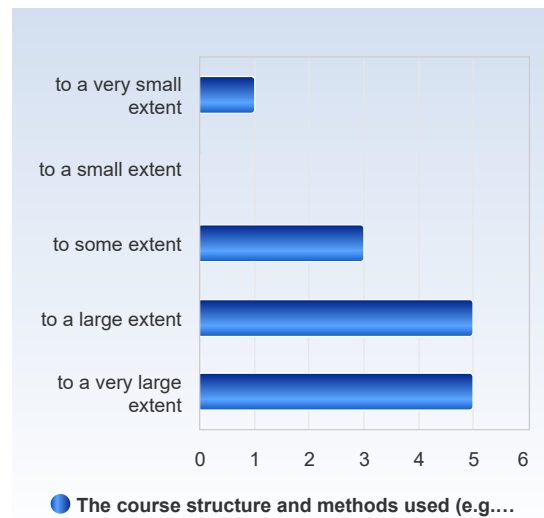
To what extent do you feel that the workload during the course was reasonable in relation to the extent of the course/number of credits awarded?	Number of responses
far too little	0 (0,0%)
too little	0 (0,0%)
appropriate	3 (21,4%)
too much	8 (57,1%)
far too much	3 (21,4%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
To what extent do you feel that the workload during the course was reasonable in relation to the extent of the course/number of credits awarded?	4,0	0,7	17,0 %	3,0	4,0	4,0	4,0	5,0

**The course structure and methods used (e.g. lectures, exercises, seminars, assignments etc.) were relevant in relation to the learning outcomes.**

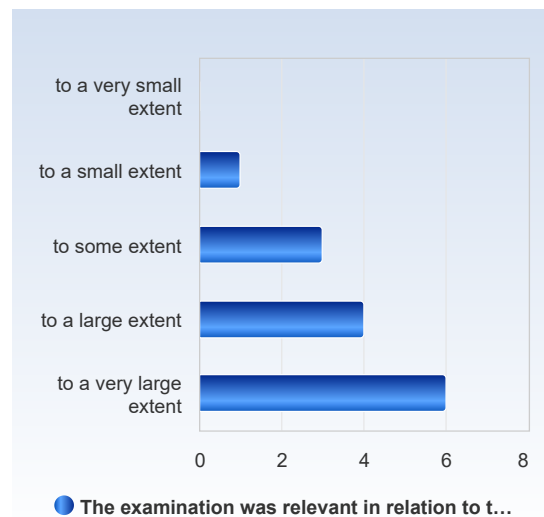
The course structure and methods used (e.g. lectures, exercises, seminars, assignments etc.) were relevant in relation to the learning outcomes.	Number of responses
to a very small extent	1 (7,1%)
to a small extent	0 (0,0%)
to some extent	3 (21,4%)
to a large extent	5 (35,7%)
to a very large extent	5 (35,7%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The course structure and methods used (e.g. lectures, exercises, seminars, assignments etc.) were relevant in relation to the learning outcomes.	3,9	1,1	29,0 %	1,0	3,5	4,0	5,0	5,0

**The examination was relevant in relation to the learning outcomes.**

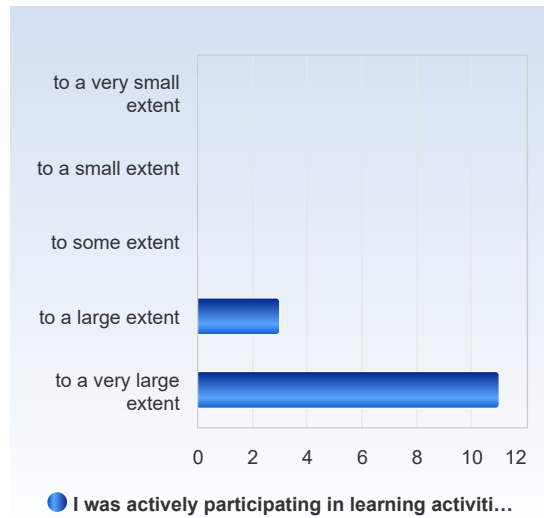
The examination was relevant in relation to the learning outcomes.	Number of responses
to a very small extent	0 (0,0%)
to a small extent	1 (7,1%)
to some extent	3 (21,4%)
to a large extent	4 (28,6%)
to a very large extent	6 (42,9%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The examination was relevant in relation to the learning outcomes.	4,1	1,0	24,5 %	2,0	3,5	4,0	5,0	5,0

**I was actively participating in learning activities.**

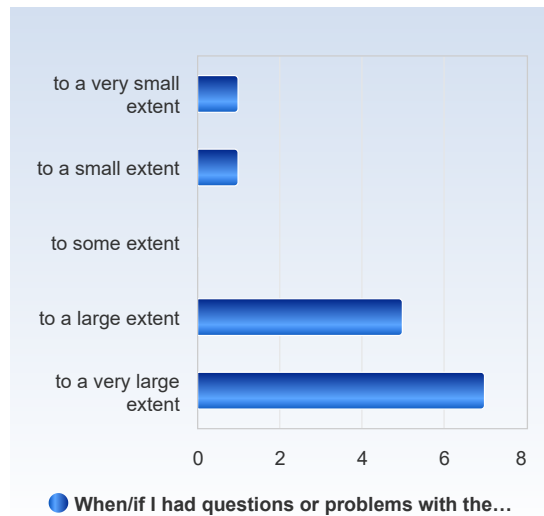
I was actively participating in learning activities.	Number of responses
to a very small extent	0 (0,0%)
to a small extent	0 (0,0%)
to some extent	0 (0,0%)
to a large extent	3 (21,4%)
to a very large extent	11 (78,6%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
I was actively participating in learning activities.	4,8	0,4	8,9 %	4,0	5,0	5,0	5,0	5,0

**When/if I had questions or problems with the course content, I felt that I could turn to my teacher /supervisor for guidance.**

When/if I had questions or problems with the course content, I felt that I could turn to my teacher/supervisor for guidance.	Number of responses
to a very small extent	1 (7,1%)
to a small extent	1 (7,1%)
to some extent	0 (0,0%)
to a large extent	5 (35,7%)
to a very large extent	7 (50,0%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
When/if I had questions or problems with the course content, I felt that I could turn to my teacher /supervisor for guidance.	4,1	1,2	29,7 %	1,0	4,0	4,5	5,0	5,0

## What were the strengths of this course?

What were the strengths of this course?

Learning the latest legislations and applications of law

Great lectures, the zoo visit was awesome, good opportunity to mingle with biomedicine students, very flexible schedule due to high amount of self-study

Practicals, quizzes given by the teacher

Lots of useful information about laws

The project was very valuable lesson. Getting to work with students from a different Master was also amazing. Moreover the zoo trip was a great experience.

- Gave us a new perspective and deeper knowledge about how the use of animals in research is regulated
- Eye opener to how animals are handled in the lab
- Variety of teaching methods from lectures live and online, study visit to the zoo, lab experience, quizzes, and online self-paced learning activities
- Lecturers were specialists in different sectors in the laboratory animal science field
- The professor is very understanding, kind, professional and made sure that we have the best outcomes from the course
- The mock ethics committee from people actually specialized and work in the field was an experience I'll never forget

Valuable information for future work, good opportunity for critical thinking and use of animals as researchers, quizzes after lectures to recap

The teacher, Rafael, was very engaged in the course, trying to help as much as possible, always giving us pertinent information by e-mail, giving flexibility if problems appeared (for example, with the e-learning platform). I thank him so much for the effort, the course was brilliant. Also, both the e-learning ETPLAS platform and the canvas external modules were incredibly helpful and interesting. The information is very well explained.

Lastly, the experience of 'getting down to business' workshop was amazing, I would even like to have it once a month involving different topics, it was extremely interesting to discuss about a topic with different perspectives, it was like working in a real environment, I am very glad we had that opportunity.

The fact that I could work with live animals (as a chemist I did not have this opportunity before)

The lecturer, Rafael is very passionate about the subject and it was visible he tried to engage us, with the trip to the zoo, quizzes on lectures and practical course

I think the instructor did a great job

The interaction with the animals during lab course and the people of the lab were very helpful.

## Any suggestions for how to improve this course? (Give as constructive suggestions as possible!)

Any suggestions for how to improve this course? (Give as constructive suggestions as possible!)

I sincerely argue that the e-learning part of this course is of far too much workload, taking up huge amount of my extracurricular time. In order to get full marks of all the exams in canvas external as required, I need to go over the exams multiple times, trying to guess all the possible answers, since there's no explanation after I hand in each exam. This process of endless trials has nothing to do with improving our academic skills, but rather a total waste of time. If the teachers in charge believe that all the e-learning contents are necessary, then please increase the credits of this course and elongate the teaching time, instead of forcing students to spend all the evenings and weekends in front of the computer.

The course could have more laboratory training

Also, more studies and papers that use animals should have been analysed

NA

Too much workload for 4.5 credit score, too many quizzes and wrong English in some of them.

In canvas external quizzes are often not related to what is provided in the text information. Moreover retaking them guessing the right answer is not really valuable but takes unnecessarily a lot of time. Some change in this assignment should be considered.

- More flexibility with Canvas external as setting a pass grade rather than the highest grade to pass
- Arranging the zoo trip when it is warmer before its opening so that we can see more animals
- More detailed explanation of the project requirements

Clearer slides, also giving them in advance. Some very important definitions should be stated clearly in the slides to avoid confusion (words instead of only pictures!)

It would also be good to cover more about other species than just mice, e.g. why not fish since they are commonly used and quite different from the rodents (maybe a lecture or so would suffice)

I liked the e-learning modules a lot, but I think there has been too much repeated information between the modules and the lectures, although I think this can be good for memory. Since we are in master level, I consider necessary to expose students to different topics, so they can have the opportunity to learn more by themselves if they are interested in it.

The quizzes from the canvas external modules were a bit stressful, since we needed to get 100%. I would try to reduce this to maybe 80%, so that people are more engaged and interested in them and learn faster and not wasting hours to do a single test.

I would like to have more hours spent in the lab. 4 hours were not enough

I would also like to have the promovability percent for the canvas external reduced to 90% instead of 100%

Canvas external is not a pleasant experience. Maybe a practical class with different animals would be nice

Maybe improve canvas external, although I know that's an external thing. The structure of the exams in it was quite frustrating and took a lot of work. Also maybe more ECTS because it was a lot of work

As far as we have to complete all the courses of canvas external and also we have obligatory attendance in all the lectures, it would be better if we did not have the presentation too. Too much workload.

### What is your overall experience of the course?

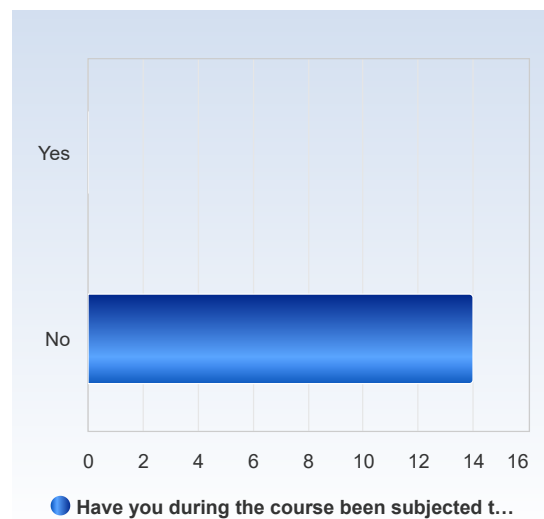
What is your overall experience of the course?	Number of responses
very poor	1 (7,1%)
poor	1 (7,1%)
ok	3 (21,4%)
good	4 (28,6%)
very good	5 (35,7%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
What is your overall experience of the course?	3,8	1,3	33,1 %	1,0	3,0	4,0	5,0	5,0

**Have you during the course been subjected to negative discrimination or insults because of your gender, ethnic origin, religion, disability or sexual orientation? If the answer is yes, the programme advises you to contact the study advisor or the student ombudsman; see KI webpage for Contact information.**

Have you during the course been subjected to negative discrimination or insults because of your gender, ethnic origin, religion, disability or sexual orientation? If the answer is yes, the programme advises you to contact the study advisor or the student ombudsman; see KI webpage for Contact information.	Number of responses
Yes	0 (0,0%)
No	14 (100,0%)
Total	14 (100,0%)

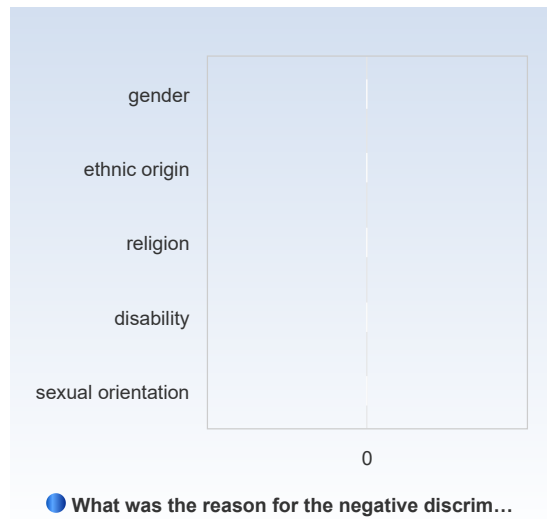




	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Have you during the course been subjected to negative discrimination or insults because of your gender, ethnic origin, religion, disability or sexual orientation? If the answer is yes, the programme advises you to contact the study advisor or the student ombudsman; see KI webpage for Contact information.	2,0	0,0	0,0 %	2,0	2,0	2,0	2,0	2,0

### What was the reason for the negative discrimination or insult?

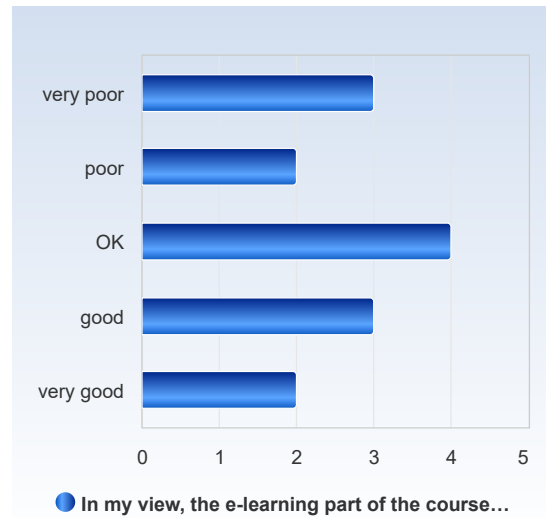
What was the reason for the negative discrimination or insult?	Number of responses
gender	0 (0,0%)
ethnic origin	0 (0,0%)
religion	0 (0,0%)
disability	0 (0,0%)
sexual orientation	0 (0,0%)
Total	0 (0,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
What was the reason for the negative discrimination or insult?	0,0	0,0	NaN %	∞	0,0	0,0	0,0	-∞

**In my view, the e-learning part of the course was:**

In my view, the e-learning part of the course was:	Number of responses
very poor	3 (21,4%)
poor	2 (14,3%)
OK	4 (28,6%)
good	3 (21,4%)
very good	2 (14,3%)
Total	14 (100,0%)



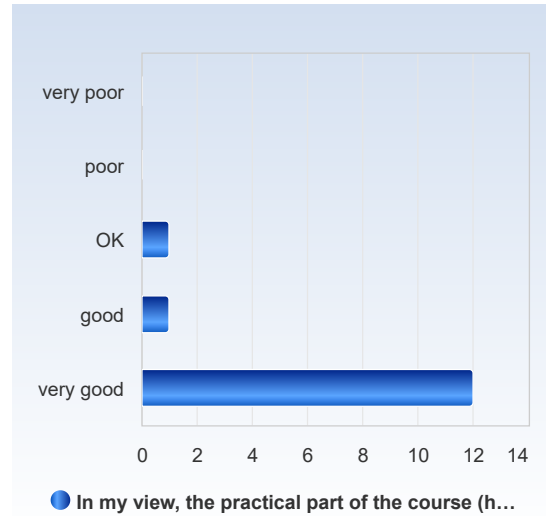
	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the e-learning part of the course was:	2,9	1,4	47,3 %	1,0	2,0	3,0	4,0	5,0

**Comments to the previous question:**

- Comments to the previous question:
- As I've mentioned before, the canvas external is of too much workload. Also, some of the questions in canvas external are answered by further materials' content, which is so weird and unfair. I strongly advice the committee to careful review and adjust the canvas external part again.
  - The content was very informative but the way of learning was not effective  
The external canvas questions were quite frustrating at times, but overall they were good to memorize information.
  - The 10 minute timer (between attempts) for the legislation module should be removed. Correct answers should include synonyms and not be case-sensitive.
  - The pressure of the e- learning was too much  
In canvas external quizzes are often not related to what is provided in the text information. Moreover retaking them guessing the right answer is not really valuable but takes unnecessarily a lot of time. Some change in this assignment should be considered.
  - ETPLAS was pretty good and well explained with detailed examples and questions post each part  
Canvas External wasn't a great experience as it was more like just aiming for getting full mark
  - Long, repetitive, the answers could not be found in the modules so eventually it felt like you were just trying to pass the quizzes rather than go through the modules and learn
  - The content from the platform is very useful, complete and interesting. The only thing I would look into are the quizzes from the canvas external modules.
  - The e-learning was good but I found certain problems such as certain photos or videos would have problems loading, some spelling mistakes and an annoyingly 100% must in all quizzes to pass
  - Tiring and difficult, very time consuming  
The tests on Canvas External would take such a long time to pass that in the end I was not even reading the modules, just taking the test. I don't feel like I learned all the important points from the E-learning. Also, some pages were blocked because of cookies and inaccessible.
  - The Canvas External exams where it didnt say what you got wrong was very frustrating as it took forever to 100%, and it felt less about learning and more about pattern recognition at that point

**In my view, the practical part of the course (hands-on session) was:**

In my view, the practical part of the course (hands-on session) was:	Number of responses
very poor	0 (0,0%)
poor	0 (0,0%)
OK	1 (7,1%)
good	1 (7,1%)
very good	12 (85,7%)
Total	14 (100,0%)



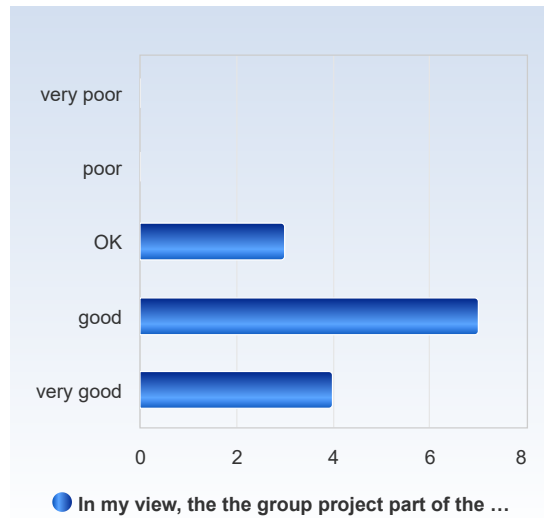
	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the practical part of the course (hands-on session) was:	4,8	0,6	12,1 %	3,0	5,0	5,0	5,0	5,0

**Comments to the previous question:**

Comments to the previous question:
Experienced , helpful staff with patience. Maybe the hands on session should have been longer.
The professionals were really good and helped us with the handling to a very large extent
Lab technicians were very friendly and kind everything was well-explained it was an experience I'll never forget. Despite never previously handling animals the technicians made sure that we all had equal opportunities
Valuable and its good that people don't have to do things they are not comfortable with
The hands-on was an amazing experience, the stuff is extremely professional and they teach very good, everything was perfectly explained and they had infinite patience. If I have to change something from this is the time, because I would have liked to be in the lab even more hours, but I understand that we are a lot of people and this is not possible.
I enjoyed working with live animals but I would have loved to have more hours in the lab with them as I consider I could have improved more skills when it comes to handling and minor procedures
Great attitude of the lab technicians and professors. It was very fun and valuable
loved the mice
The people of the lab were very good and helpful.

**In my view, the the group project part of the course was:**

In my view, the the group project part of the course was:	Number of responses
very poor	0 (0,0%)
poor	0 (0,0%)
OK	3 (21,4%)
good	7 (50,0%)
very good	4 (28,6%)
Total	14 (100,0%)



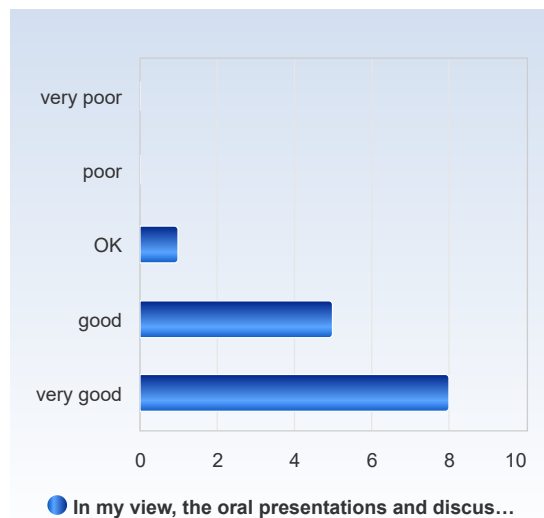
	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the the group project part of the course was:	4,1	0,7	17,9 %	3,0	4,0	4,0	4,5	5,0

**Comments to the previous question:**

Comments to the previous question:
NA
It was a nice experience to work with students from different majors
It would be good to include a variety of models rather than just mice and rodents
It was a bit too much considering the canvas external must but it was a good experience
Standard. Okay and good
Unnecessary

**In my view, the oral presentations and discussion sessions were:**

In my view, the oral presentations and discussion sessions were:	Number of responses
very poor	0 (0,0%)
poor	0 (0,0%)
OK	1 (7,1%)
good	5 (35,7%)
very good	8 (57,1%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the oral presentations and discussion sessions were:	4,5	0,7	14,5 %	3,0	4,0	5,0	5,0	5,0

### Comments to the previous question (strengths, improvements to be made):

Comments to the previous question (strengths, improvements to be made):

NA

Everything was greatly explained

This part was very interesting, very good discussions and a lot of new things to take into account in the future. The mock committee was also very professional and they taught us a lot. I am very glad for the session.

I loved the fact that we were evaluated by people that work in the field which made the discussion and feedback more valuable

Standard

### In my view, the live webinars in the course were:

In my view, the live webinars in the course were:	Number of responses
very poor	0 (0,0%)
poor	0 (0,0%)
OK	2 (14,3%)
good	7 (50,0%)
very good	5 (35,7%)
Total	14 (100,0%)



	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
In my view, the live webinars in the course were:	4,2	0,7	16,6 %	3,0	4,0	4,0	5,0	5,0

### Comments to the previous question

Comments to the previous question

NA

I really enjoyed the webinars

Interesting guests and topics, nice to have some online classes

Interesting topics

## What was your overall impression of the inter-disciplinary activity at the Kolmården zoo?

What was your overall impression of the inter-disciplinary activity at the Kolmården zoo?

Very good!

The visit was really good.

It was a great experience. The master students who were our tour guides were passionate and perfectly prepared.

I truly loved it so much, but it would be nicer if have it in a warmer date maybe in early April before its opening

Fun and informative, good activity to learn various things about other animals

Wonderful experience, the tour was amazing, the students explained it very good. The only thing I would change is the first lecture we had, since we had already had it in class, maybe I would have chosen something more related to the zoo, like what types of experiments can be carried out in the zoo or the specific legislation around it.

The activity was very good but I think it was too short especially that our colleagues from Linköping University were so well prepared and eager to share their knowledge with us. I think we should have spent more time at the zoo and check more animals than we had and also have some discussions regarding the wellbeing of the animals in the modern society (especially that it was an inter-disciplinary activity and we were students from different master programmes with very diverse backgrounds)

Very good, the students were nice, although the trip seemed very long

I LOVED IT !! it was an absolute blast and I learned so much about dolphins (also zoo animals as research subjects)

Very nice place, very well-trained and specialized people that gave us very interesting info