



## Land use and watershed management to reduce eutrophication MV0217, 20155.2021

7.5 Hp

Pace of study = 100%

Education cycle = Advanced -

Course leader = Magdalena Bieroza

### Evaluation report

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**Evaluation period: 2020-11-25 - 2020-12-16**

Answers 8

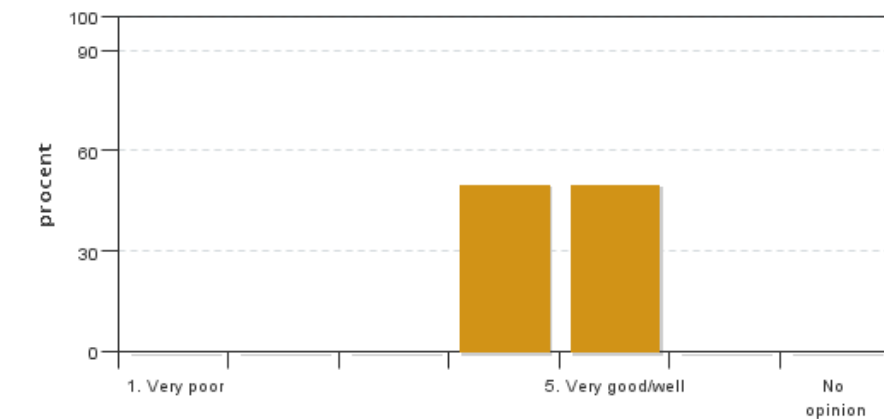
Number of students 12

Answer frequency 66 %

### Mandatory standard questions

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#### 1. My overall impression of the course is:

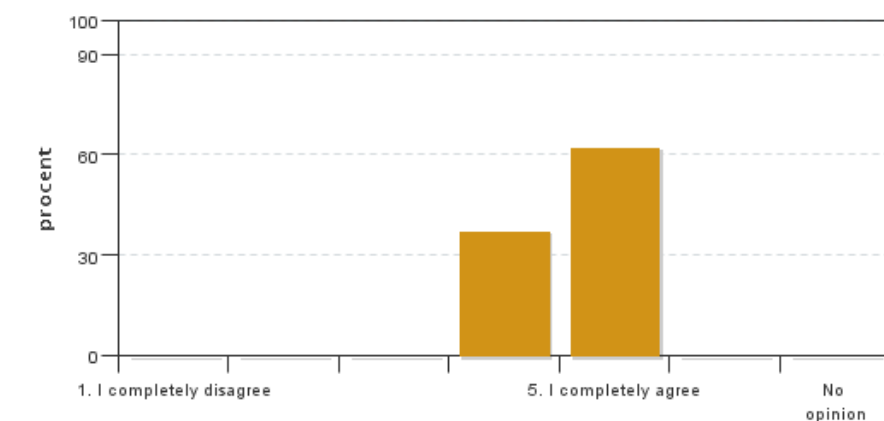


Answers: 8  
Medel: 4,5  
Median: 4

1: 0  
2: 0  
3: 0  
4: 4  
5: 4

No opinion: 0

#### 2. I found the course content to have clear links to the learning objectives of the course.

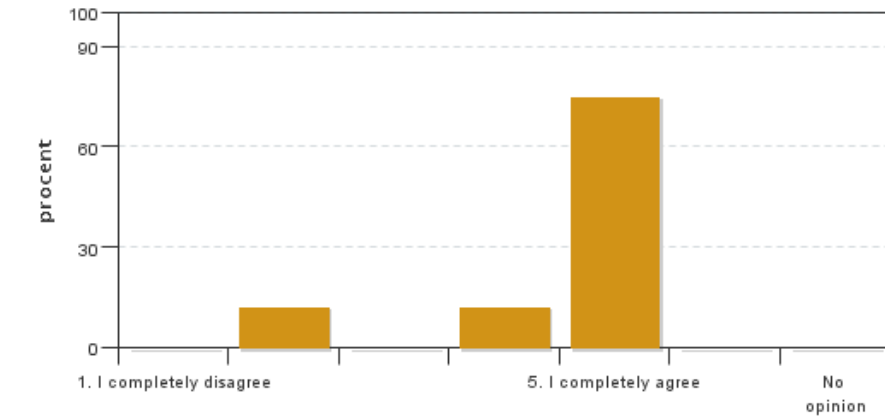


Answers: 8  
Medel: 4,6  
Median: 5

1: 0  
2: 0  
3: 0  
4: 3  
5: 5

No opinion: 0

**3. My prior knowledge was sufficient for me to benefit from the course.**

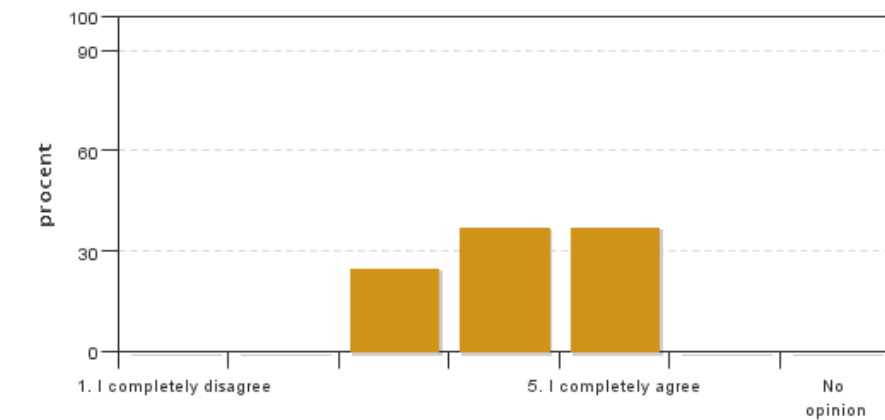


Answers: 8  
 Medel: 4,5  
 Median: 5

1: 0  
 2: 1  
 3: 0  
 4: 1  
 5: 6

No opinion: 0

**4. The information about the course was easily accessible.**

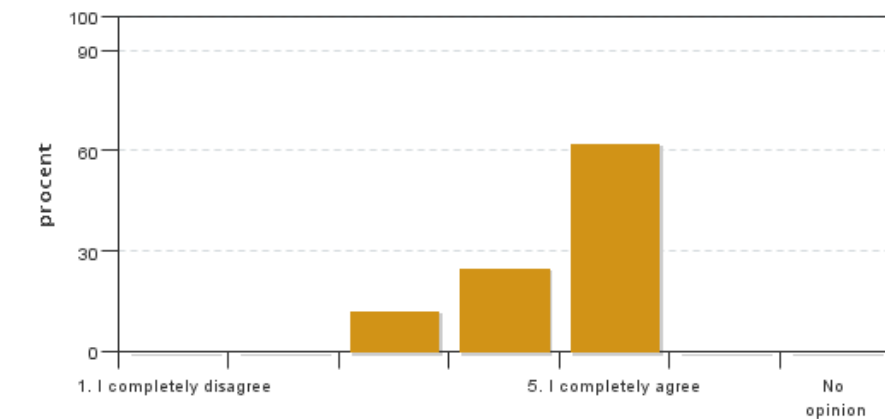


Answers: 8  
 Medel: 4,1  
 Median: 4

1: 0  
 2: 0  
 3: 2  
 4: 3  
 5: 3

No opinion: 0

**5. The various course components (lectures, course literature, exercises etc.) have supported my learning.**

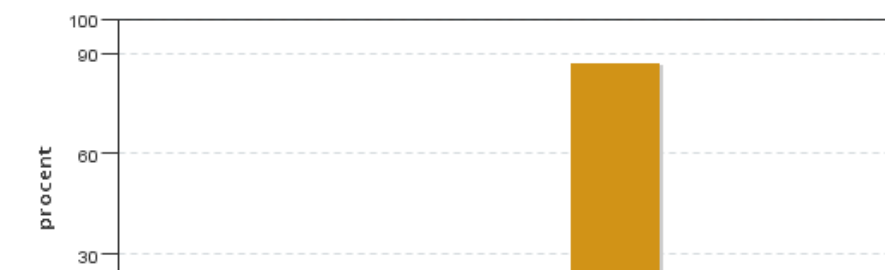


Answers: 8  
 Medel: 4,5  
 Median: 5

1: 0  
 2: 0  
 3: 1  
 4: 2  
 5: 5

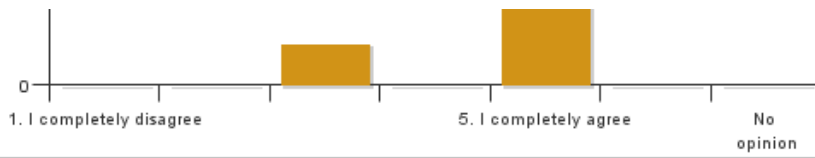
No opinion: 0

**6. The social learning environment has been inclusive, respecting differences of opinion.**



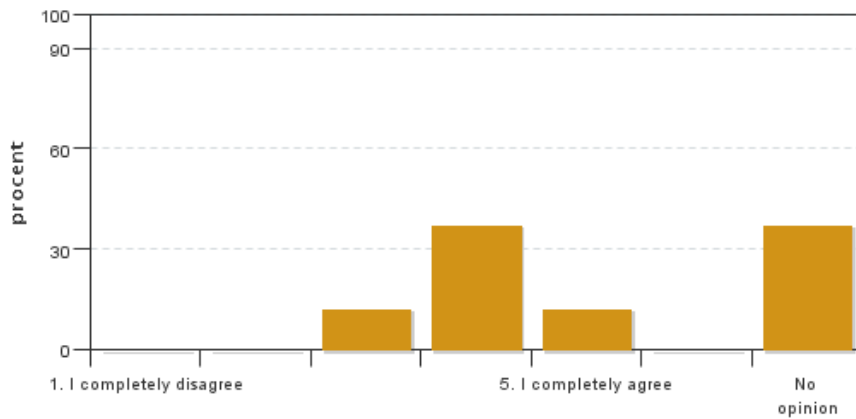
Answers: 8  
 Medel: 4,8  
 Median: 5

1: 0  
 2: 0  
 3: 1  
 4: 0  
 5: 7



No opinion: 0

**7. The physical learning environment (facilities, equipment etc.) has been satisfactory.**

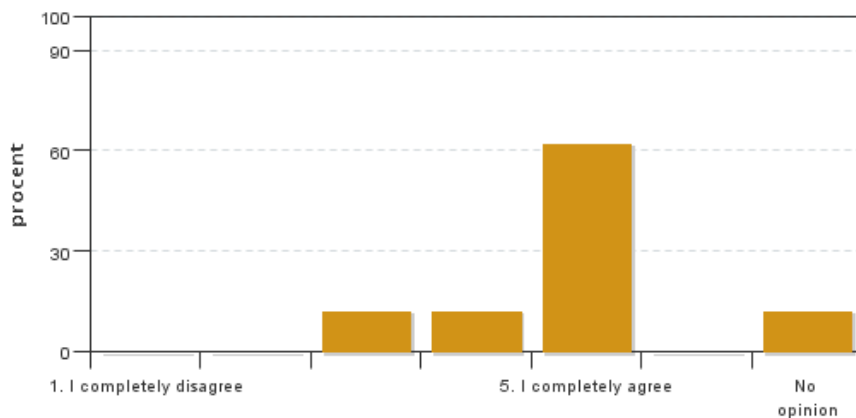


Answers: 8  
Medel: 4,0  
Median: 4

1: 0  
2: 0  
3: 1  
4: 3  
5: 1

No opinion: 3

**8. The examination(s) provided opportunity to demonstrate what I had learnt during the course (see the learning objectives).**

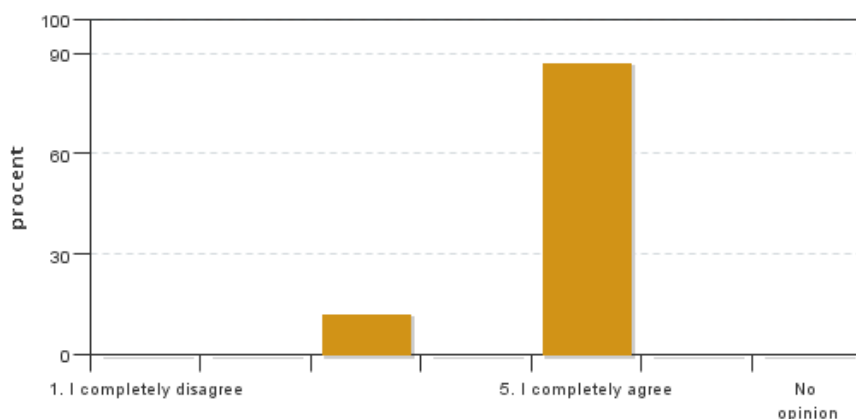


Answers: 8  
Medel: 4,6  
Median: 5

1: 0  
2: 0  
3: 1  
4: 1  
5: 5

No opinion: 1

**9. The course covered the sustainable development aspect (environmental, social and/or financial sustainability).**

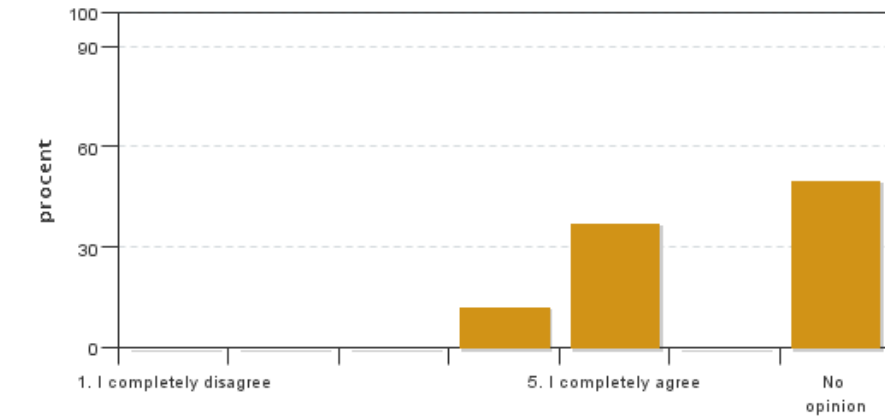


Answers: 8  
Medel: 4,8  
Median: 5

1: 0  
2: 0  
3: 1  
4: 0  
5: 7

No opinion: 0

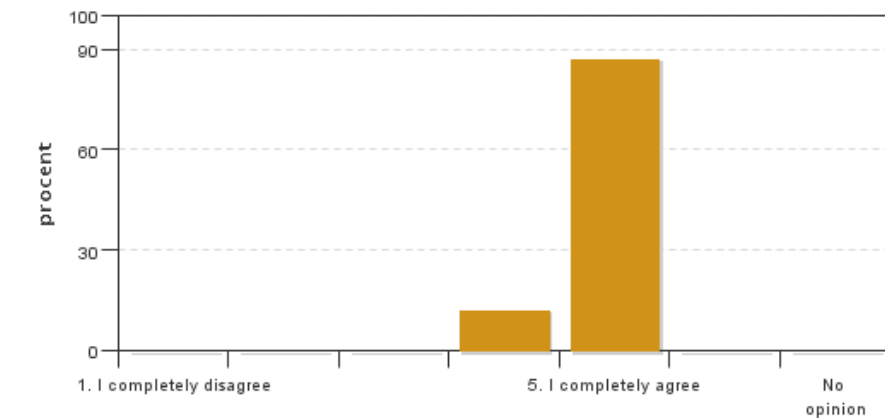
**10. I believe the course has included a gender and equality aspect, regarding content as well as teaching practices (e.g. perspective on the subject, reading list, allocation of speaking time and the use of master suppression techniques).**



Answers: 8  
 Medel: 4,8  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 1  
 5: 3  
 No opinion: 4

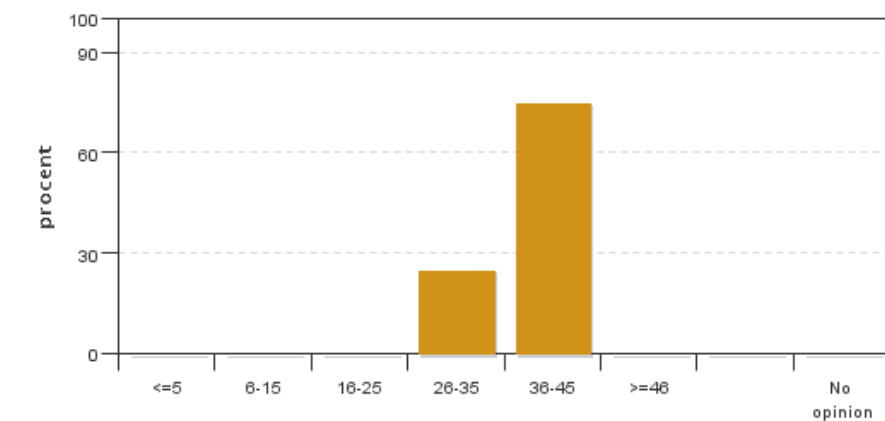
**11. The course covered international perspectives.**



Answers: 8  
 Medel: 4,9  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 1  
 5: 7  
 No opinion: 0

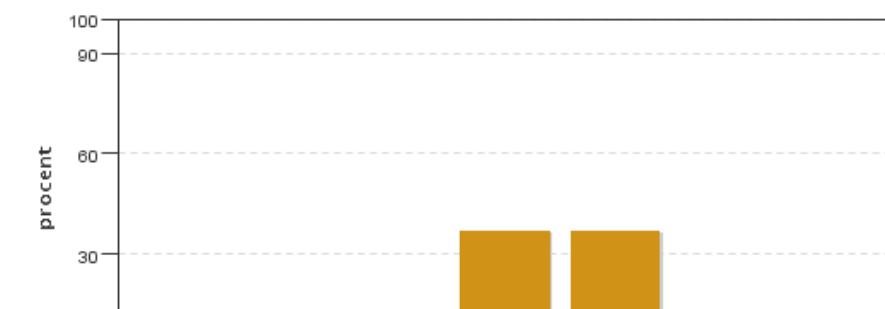
**12. On average, I have spent ... hours/week on the course (including timetabled hours).**



Answers: 8  
 Medel: 37,5  
 Median: 36-45

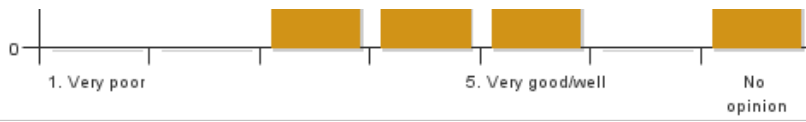
≤5: 0  
 6-15: 0  
 16-25: 0  
 26-35: 2  
 36-45: 6  
 ≥46: 0  
 No opinion: 0

**13. What is your overall experience of participating in all or part of your course online?**



Answers: 8  
 Medel: 4,3  
 Median: 4

1: 0  
 2: 0  
 3: 1  
 4: 3  
 5: 3  
 No opinion: 1

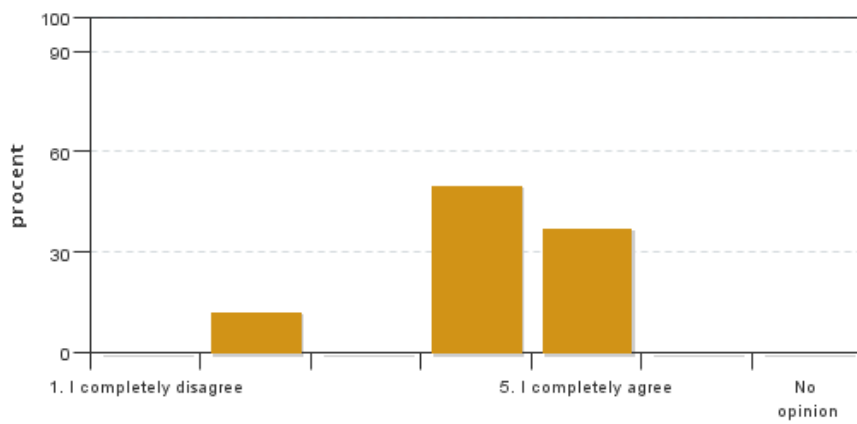


14. Please share what worked well when participating in teaching on distance

15. Please share what worked less well when participating in teaching on distance

## Additional own questions

16. The Zoom environment worked well and enabled good interaction between students and teachers

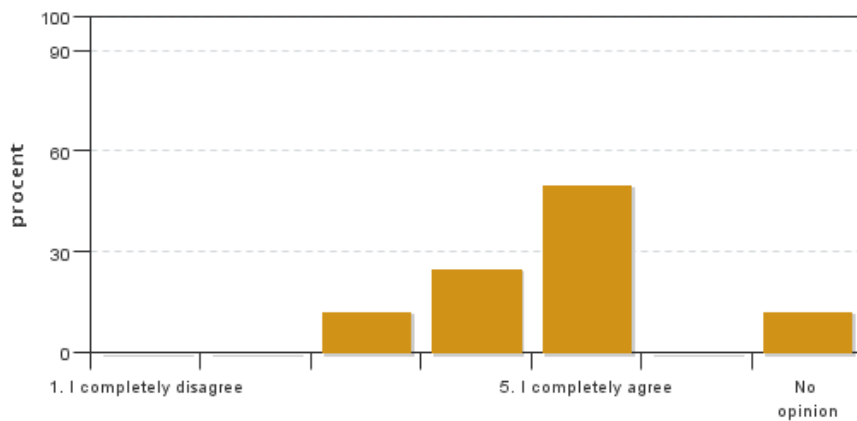


Answers: 8  
Medel: 4,1  
Median: 4

1: 0  
2: 1  
3: 0  
4: 4  
5: 3

No opinion: 0

17. The Limnology lecture was useful and informative

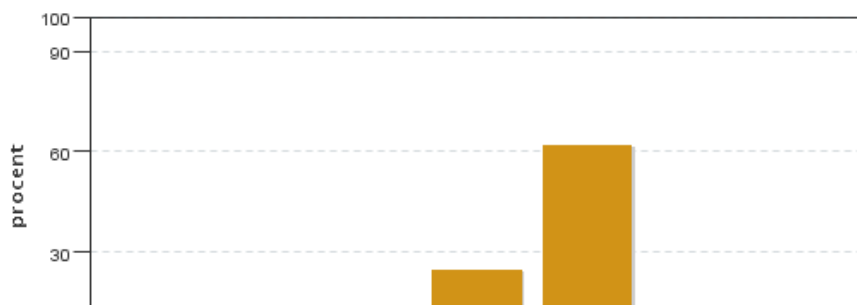


Answers: 8  
Medel: 4,4  
Median: 5

1: 0  
2: 0  
3: 1  
4: 2  
5: 4

No opinion: 1

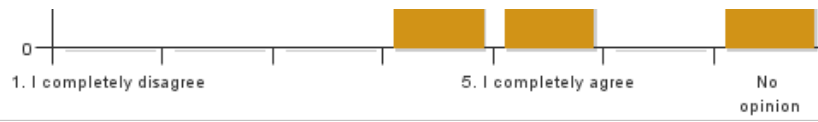
18. The Hydrology lecture was useful and informative



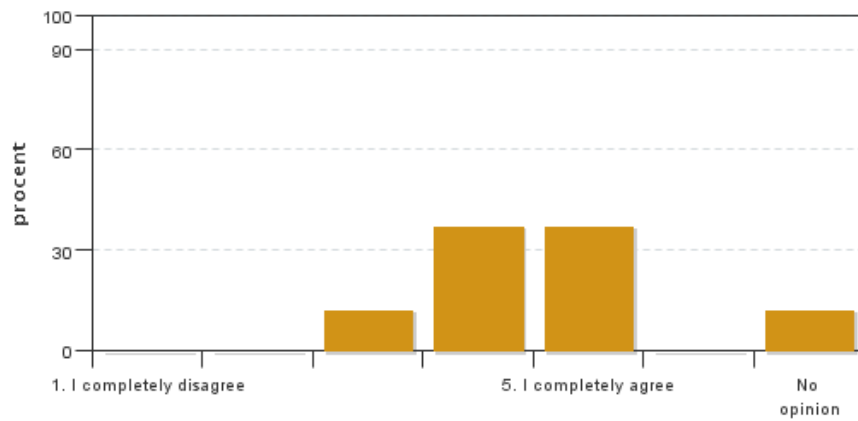
Answers: 8  
Medel: 4,7  
Median: 5

1: 0  
2: 0  
3: 0  
4: 2  
5: 5

No opinion: 1



**19. The Ecosystem impacts lecture was useful and informative**

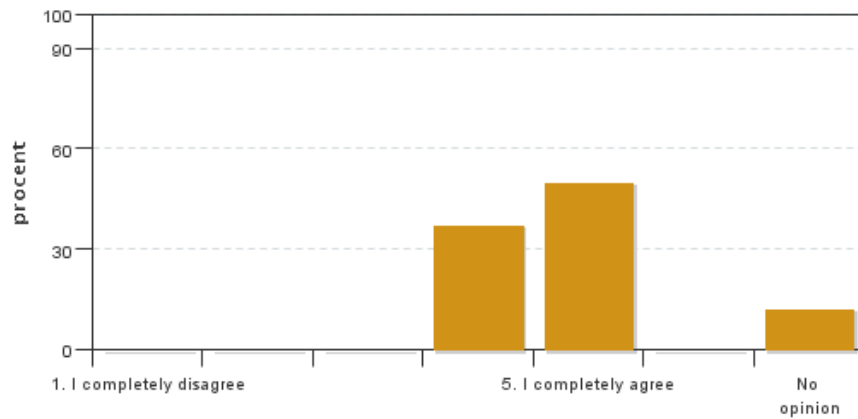


Answers: 8  
 Medel: 4,3  
 Median: 4

1: 0  
 2: 0  
 3: 1  
 4: 3  
 5: 3

No opinion: 1

**20. The Water quality monitoring lecture was useful and informative**

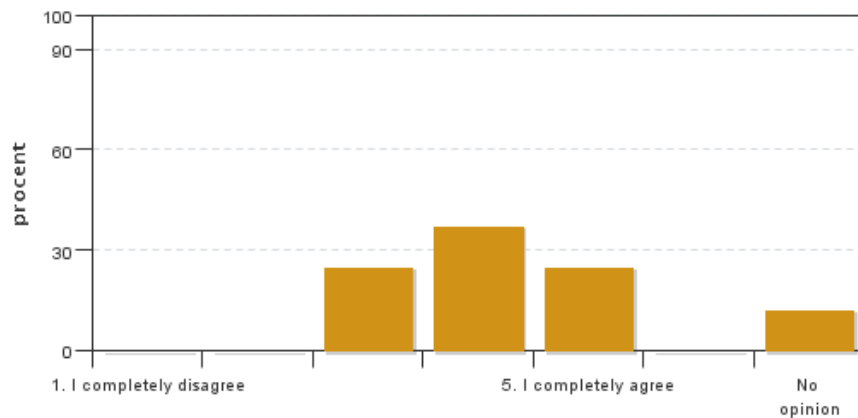


Answers: 8  
 Medel: 4,6  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 3  
 5: 4

No opinion: 1

**21. The Swedish monitoring lecture was useful and informative**

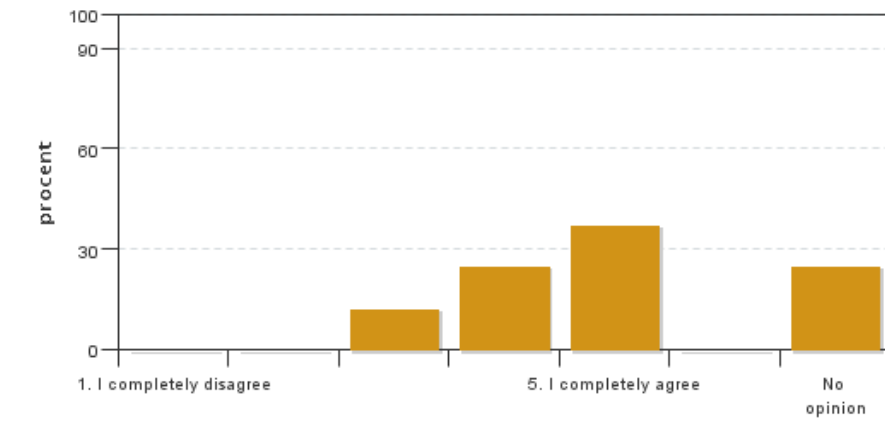


Answers: 8  
 Medel: 4,0  
 Median: 4

1: 0  
 2: 0  
 3: 2  
 4: 3  
 5: 2

No opinion: 1

**22. The Field measurement data exercise was useful and informative**

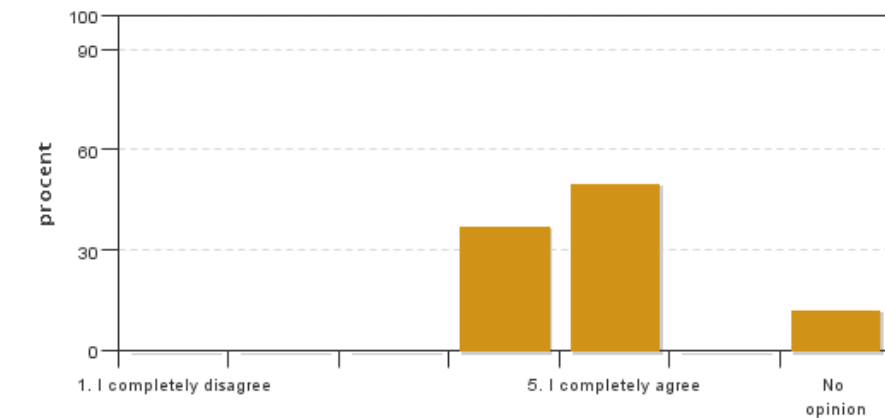


Answers: 8  
 Medel: 4,3  
 Median: 4

1: 0  
 2: 0  
 3: 1  
 4: 2  
 5: 3

No opinion: 2

**23. The Sources and pathways P and Load apportionment lectures were useful and informative**

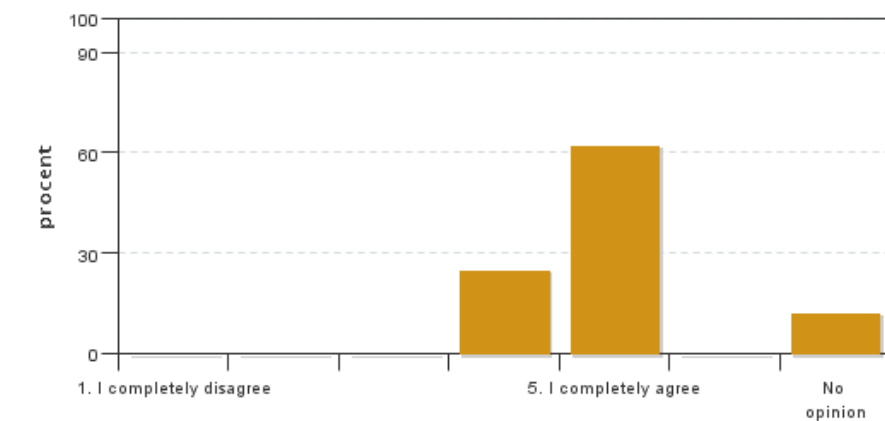


Answers: 8  
 Medel: 4,6  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 3  
 5: 4

No opinion: 1

**24. The Sources and pathways Nitrogen lecture was useful and informative**

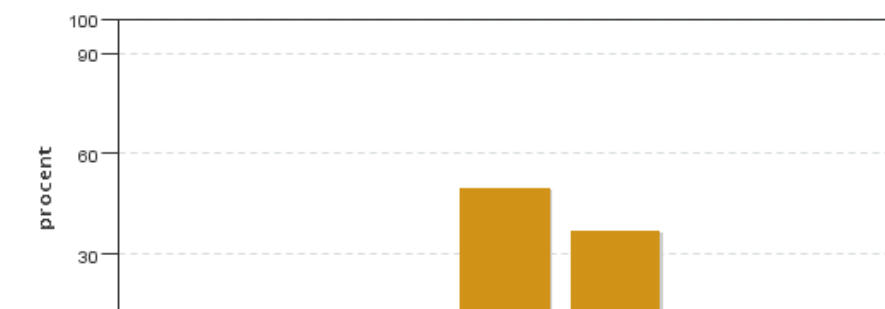


Answers: 8  
 Medel: 4,7  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 2  
 5: 5

No opinion: 1

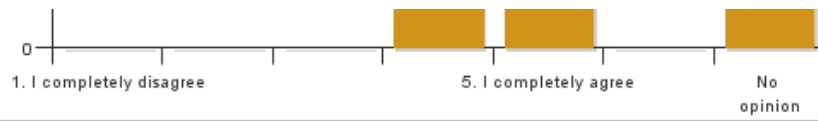
**25. The Water Framework Directive lecture was useful and informative**



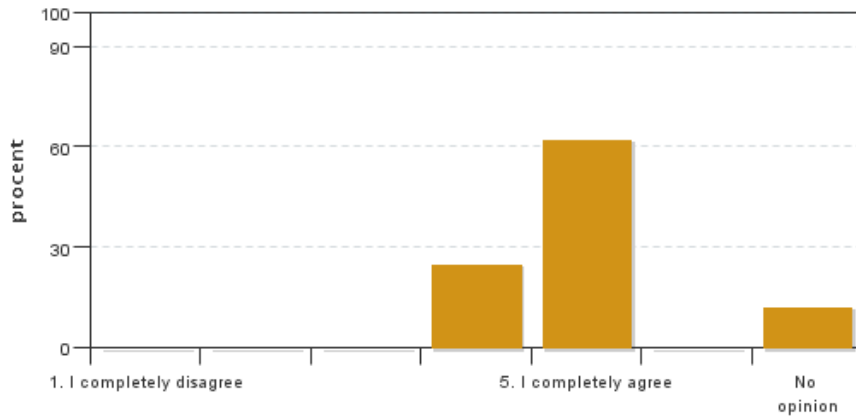
Answers: 8  
 Medel: 4,4  
 Median: 4

1: 0  
 2: 0  
 3: 0  
 4: 4  
 5: 3

No opinion: 1



**26. The Mitigation theory lecture was useful and informative**

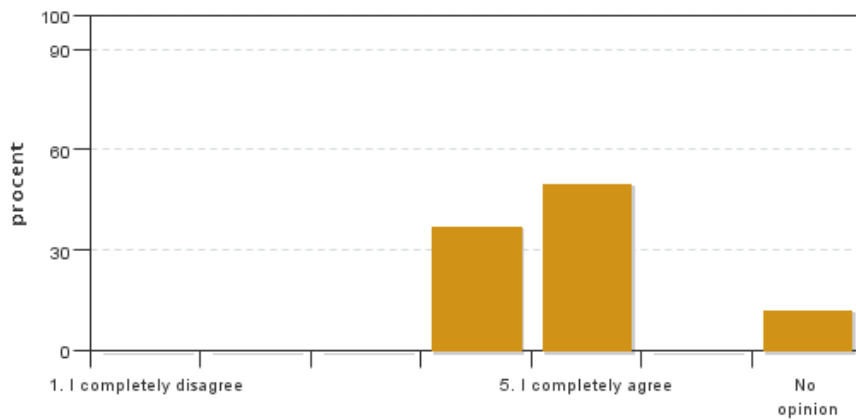


Answers: 8  
 Medel: 4,7  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 2  
 5: 5

No opinion: 1

**27. The Agricultural water management/Water challenges in developing countries lectures was useful and informative**

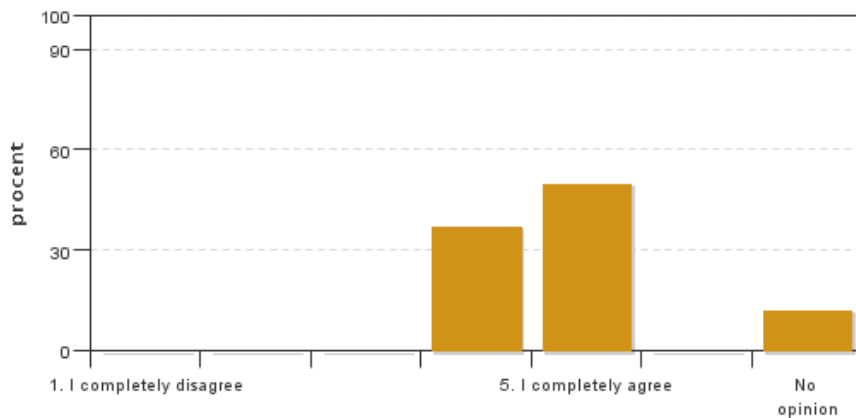


Answers: 8  
 Medel: 4,6  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 3  
 5: 4

No opinion: 1

**28. The Mitigation practice lectures were useful and informative**



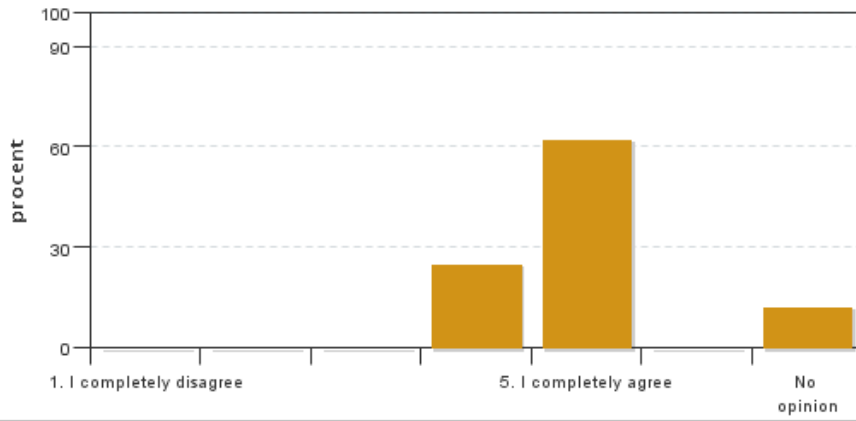
Answers: 8  
 Medel: 4,6  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 3  
 5: 4

No opinion: 1

**29. The Stream restoration lecture was useful and informative**



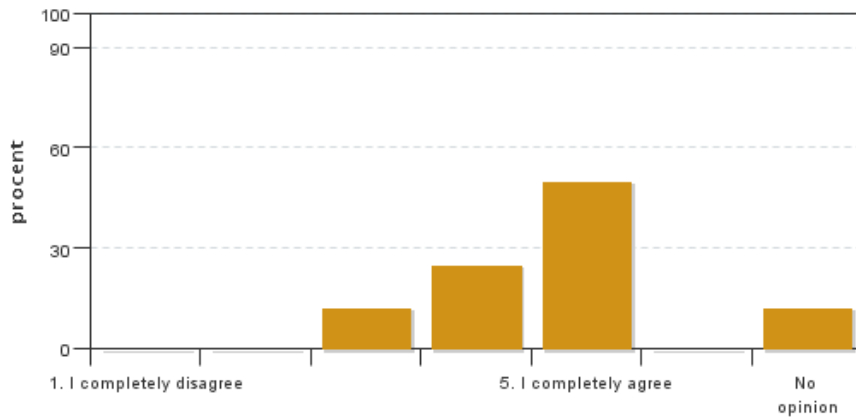


Answers: 8  
 Medel: 4,7  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 2  
 5: 5

No opinion: 1

**30. The Multiple stressors lecture was useful and informative**

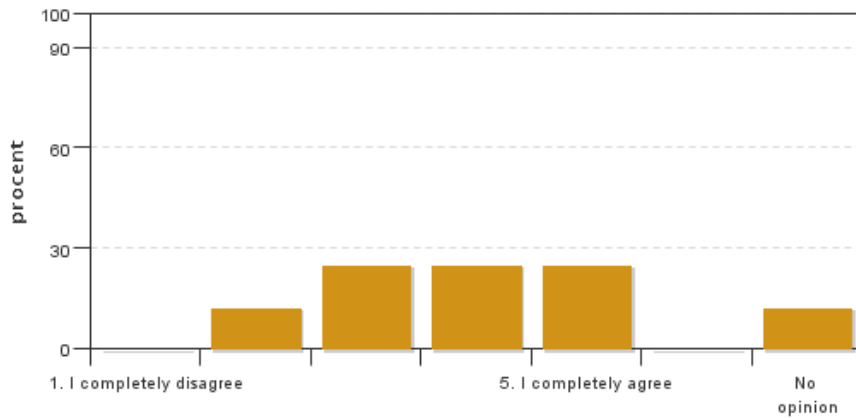


Answers: 8  
 Medel: 4,4  
 Median: 5

1: 0  
 2: 0  
 3: 1  
 4: 2  
 5: 4

No opinion: 1

**31. The Stakeholders perspective lectures were useful and informative**

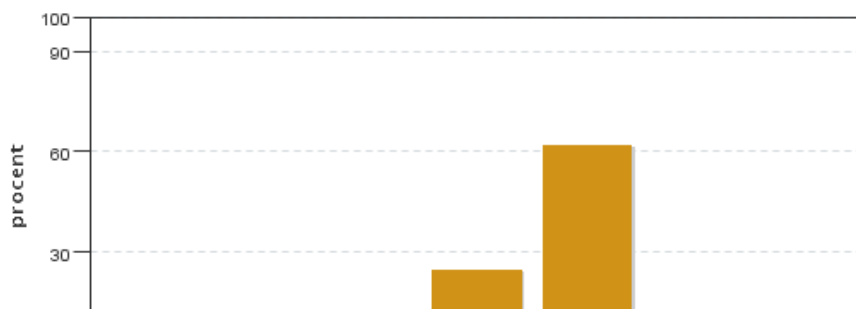


Answers: 8  
 Medel: 3,7  
 Median: 4

1: 0  
 2: 1  
 3: 2  
 4: 2  
 5: 2

No opinion: 1

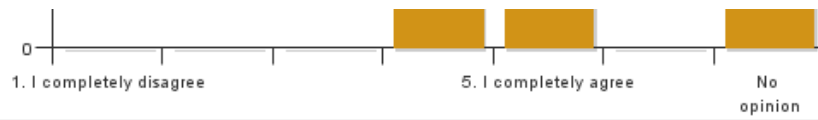
**32. The Nutrient recycling lecture was useful and informative**



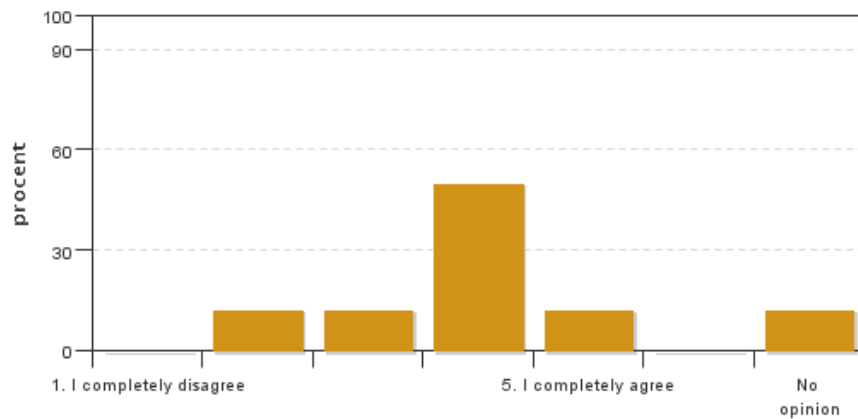
Answers: 8  
 Medel: 4,7  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 2  
 5: 5

No opinion: 1



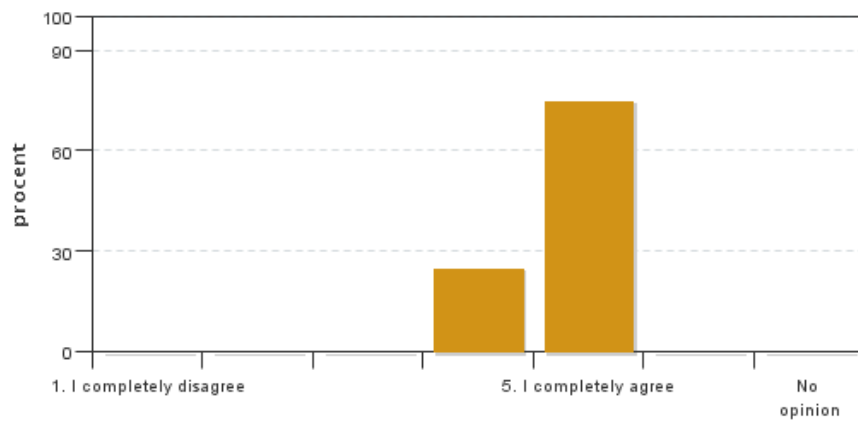
**33. The Modelling water quality lecture was useful and informative**



Answers: 8  
 Medel: 3,7  
 Median: 4

1: 0  
 2: 1  
 3: 1  
 4: 4  
 5: 1  
 No opinion: 1

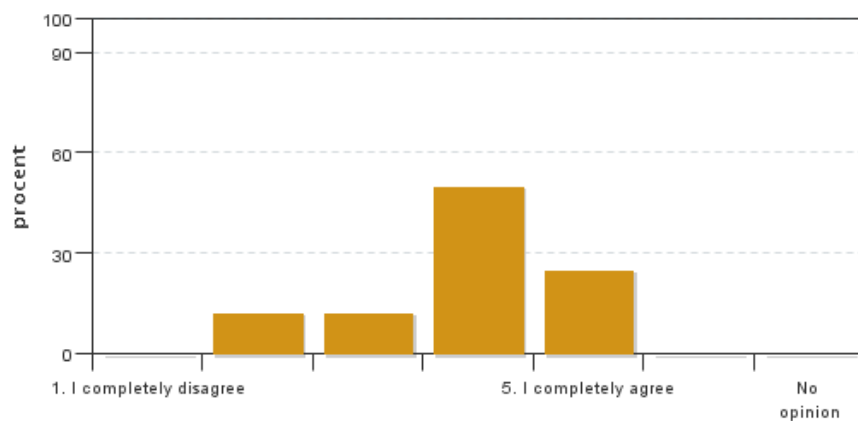
**34. The course literature and Literature discussions were useful and informative**



Answers: 8  
 Medel: 4,8  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 2  
 5: 6  
 No opinion: 0

**35. The Term paper assignment was useful and informative**



Answers: 8  
 Medel: 3,9  
 Median: 4

1: 0  
 2: 1  
 3: 1  
 4: 4  
 5: 2  
 No opinion: 0

## Course leaders comments

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2020 has brought many challenges while organising this course. The contents had to be adjusted to fit the online format and sadly practical field trips and measurements had to be cancelled. The Zoom environment, although efficient online tool, is a very demanding way for teacher-student interactions and often suffering from 'technical issues'. It would have been much more rewarding and efficient to have a traditional setup with physical lectures and discussions; thus, not surprisingly many negative comments were related directly to the online way the course was delivered. Some aspects of the course worked well in this setup e.g. literature discussions, some were more difficult to appreciate e.g. group work.

If possible, in 2021 the course will be delivered in a physical way to avoid many problems experienced in 2020. The term paper part would have worked much better when the group work could consist of physical meetings and discussions. These questions will be re-addressed in 2021.

## Student representatives comments

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In general, the students found that the course was very good, with clear links between the content of the lectures and the objectives of the course. The topics were approached in an interesting way throughout the whole course with a variety of lecturers.

### Positive aspects

Relevant lectures with an overall high quality, which resulted in a lot of new knowledge obtained.

In general, the lectures were very interactive, the students were encouraged by different means to participate in the online meetings, having appropriate feedback.

A couple of students pointed out the remarkable presentation of the lecture on hydrology. Other outstanding lectures were on stream restoration, multiple stressors, and nutrient recycling.

Adequate amounts of reading and the course literature was useful and informative.

The literature discussions were a good dynamic for learning and more time could be allocated for them.

The way in that the exam was designed allowed us to really go deep into the topics that were taught and the understanding that we got during the course. The questions were relevant and according to the learning objectives.

All the lectures were given on time.

### To improve

The group work under the present circumstances can be quite challenging and maybe should be addressed in a different way. Regarding the Term paper, it was considered as a bit unclear task and very time-demanding. Some students think it should be better an individual task.

For some students, the workload felt quite demanding considering that it was a 7.5 credit course.

The information on Canvas, although accessible, could be better organized.

The content of the slides that the students had access to after the lecture should be more self-explanatory since some of them were not very clear when used to study.

A couple of lecturers didn't show enough English skills to explain the topics all the time. As a result, some of the parts of their presentations were a mixture of Swedish and English. This only happened a few times though.

Prevent technical issues due to the bad internet connection of the lecturers. It should be recommended for them to find optimal conditions to give the online lectures.

The distribution of the lecture hours through the course could be reconsidered: lectures over Zoom are more exhausting than regular classes, so the allocated time per day should be distributed in a different way.

### Additional comments:

A bit hard to have a good interaction via Zoom. It is harder to focus on a Zoom lecture than in a regular one

A shame that the field exercises were canceled (Field trip and measurements).

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