Hydroponic Systems in Horticultural Production and Public Environment BI1233, 20010.2526

15 Hp
Pace of study = 100%
Education cycle = Basic
Course leader = Anna Karin Rosberg

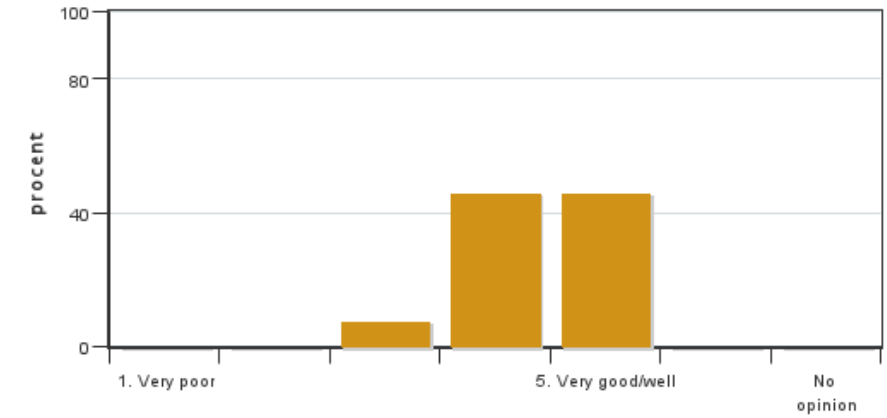
Evaluation report

Evaluation period: 2026-01-11 - 2026-02-01

Answers	13
Number of students	20
Answer frequency	65 %

Mandatory standard questions

1. My overall impression of the course is:

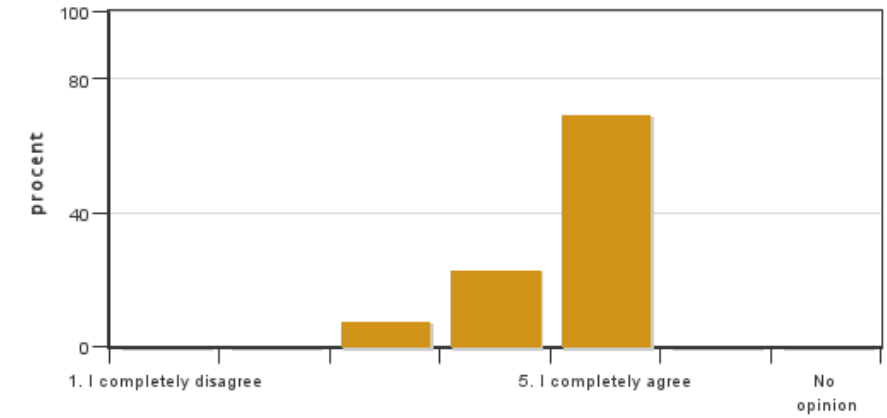


Answers: 13
Medel: 4,4
Median: 4

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

No opinion: 0

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

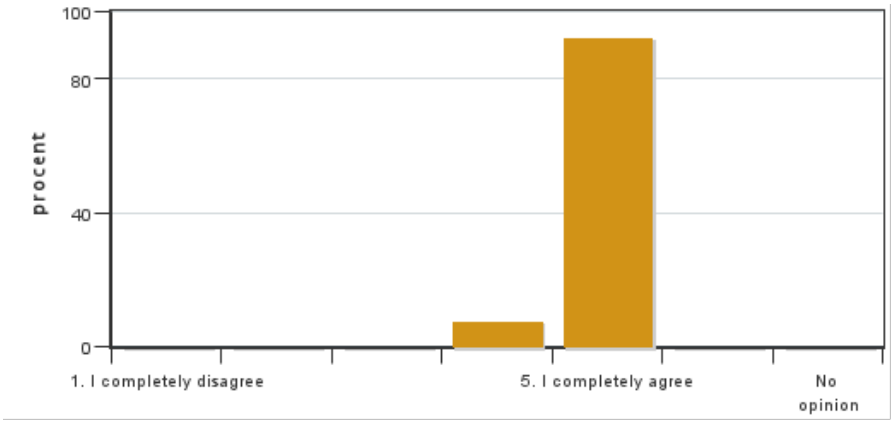


Answers: 13
Medel: 4,6
Median: 5

1: 0
2: 0
3: 1
4: 3
5: 9

No opinion: 0

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

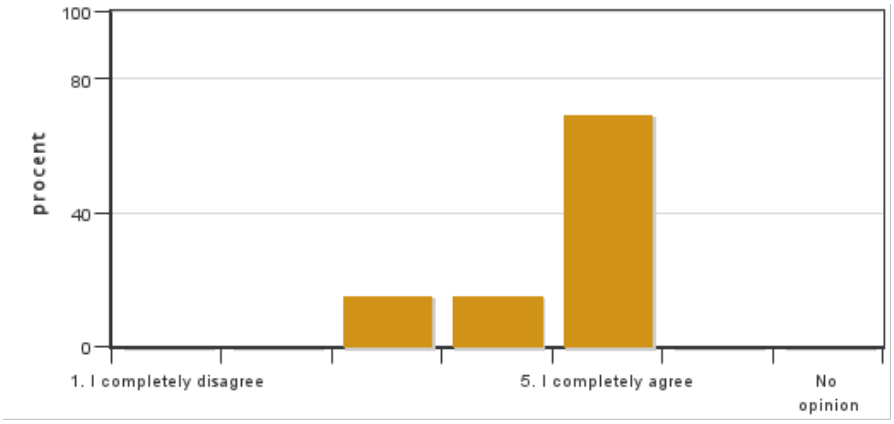


Answers: 13
Medel: 4,9
Median: 5

1: 0
2: 0
3: 0
4: 1
5: 12

No opinion: 0

4. The information about the course was easily accessible.

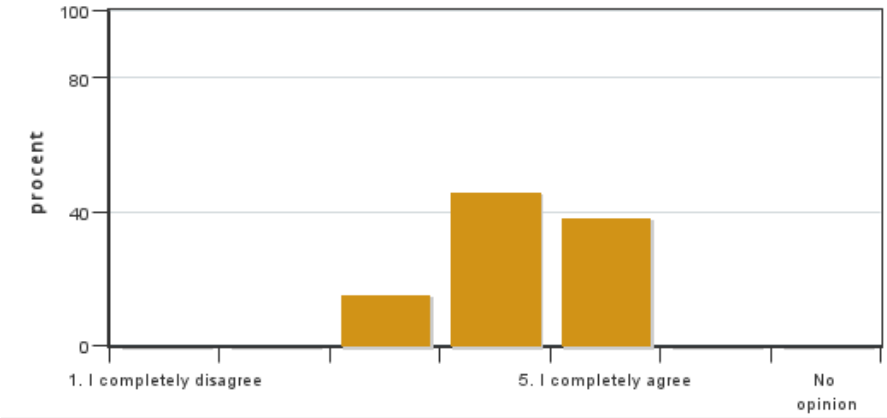


Answers: 13
Medel: 4,5
Median: 5

1: 0
2: 0
3: 2
4: 2
5: 9

No opinion: 0

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

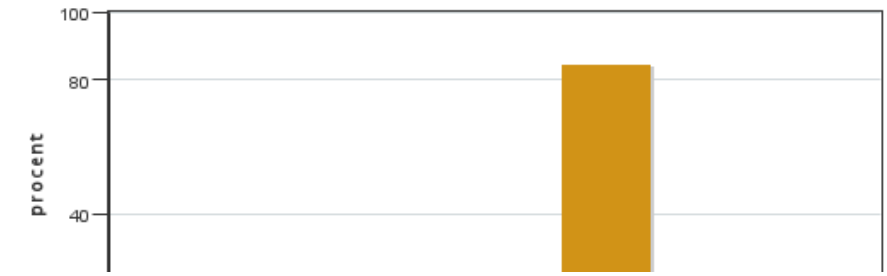


Answers: 13
Medel: 4,2
Median: 4

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

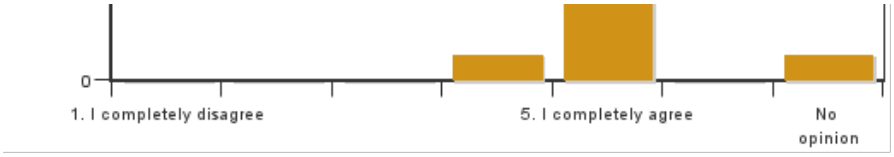
No opinion: 0

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



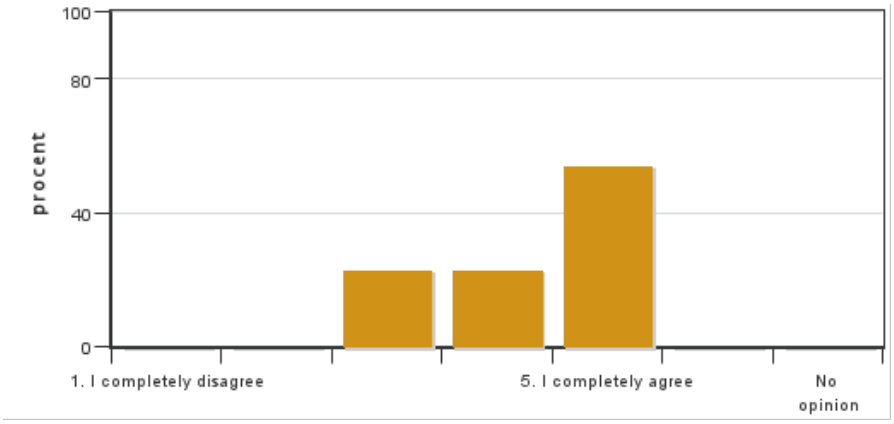
Answers: 13
Medel: 4,9
Median: 5

1: 0
2: 0
3: 0
4: 1
5: 11



No opinion: 1

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

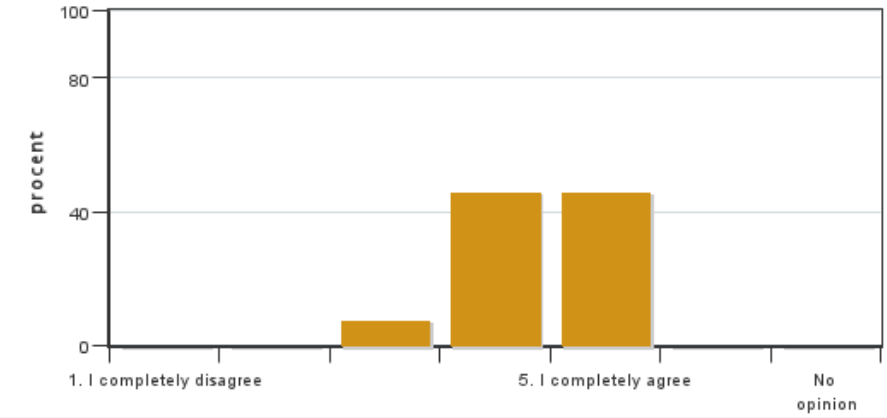


Answers: 13
Medel: 4,3
Median: 5

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

No opinion: 0

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

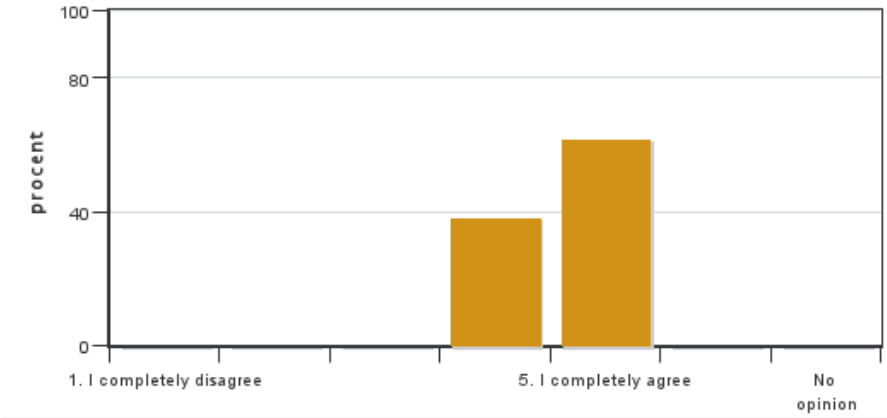


Answers: 13
Medel: 4,4
Median: 4

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

No opinion: 0

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

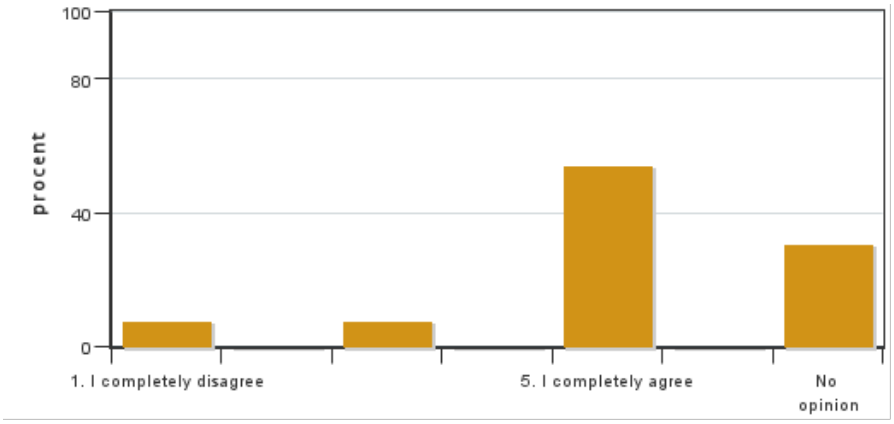


Answers: 13
Medel: 4,6
Median: 5

1: 0
2: 0
3: 0
4: 5
5: 8

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).

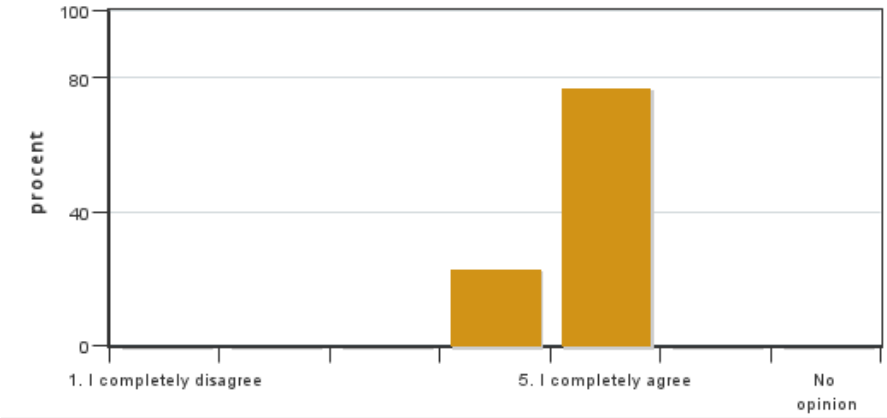


Answers: 13
Medel: 4,3
Median: 5

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

No opinion: 4

11. The course covered international perspectives.

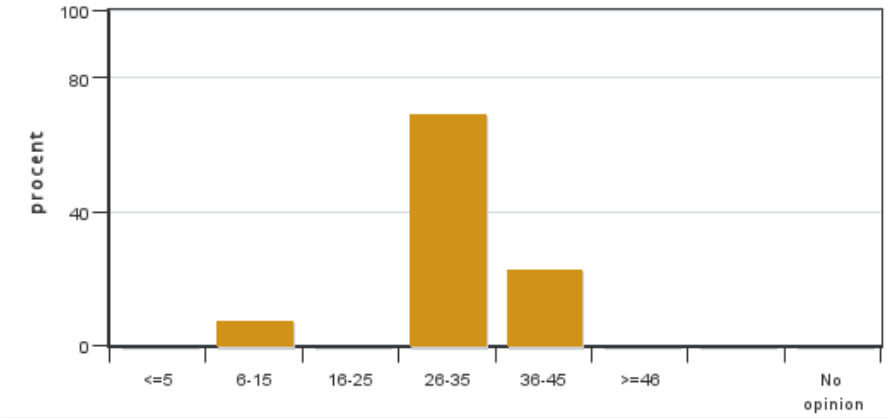


Answers: 13
Medel: 4,8
Median: 5

1: 0
2: 0
3: 0
4: 3
5: 10

No opinion: 0

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



Answers: 13
Medel: 30,8
Median: 26-35

≤5: 0
6-15: 1
16-25: 0
26-35: 9
36-45: 3
≥46: 0

No opinion: 0

Course leaders comments

The course Hydroponic systems in Horticultural Production and Public Environment (BI1233) is a course on basic level that was given as a full-time course, on campus, this year with 20 students. Most of the students came from the Horticultural Management program (Trädgårdsingenjör Odling), but there were also students from master's level programs attending, as well as Erasmus students. The **overall impression** of the course had a grade of 4.4, which indicates that the students were happy with the course. Answer frequency of the course evaluation was 65 %. The last day of the course we had an oral course evaluation that also reflected a positive outcome of the course, with some suggestions for improvements.

In the course evaluation from the 2024 course, the score for “sustainability” was 4.2. This year, changes were made to the curriculum and a lot more focus was put on sustainability aspects with invited lecturers and a final project that dealt with sustainability from different perspectives. The score this year landed on 4.6, which was a great

improvement. As a final assignment for the course, the students made posters that were presented on the last day. For next year, the poster presentations will be kept, but more time will be given to each student for the presentation and that also gives more time for questions and discussion about the subject.

Another change that was implemented this year was an experiment with aquaponic production. The students helped set up an aquaponic system in the greenhouse and then monitored some aspects of the production with the help of IoT (Internet of Things) sensors, as well as some more hands-on analyses. While the experiment itself was interesting, more depth in the analyses of the outcomes would have helped with the learning experience. This is something the course organizers will look more into for the coming year.

The study visits in the course gave the students insights into the subject of hydroponic production. A suggestion that came up during the course evaluation was to have one full day for a study visit, and perhaps travel a bit further away. For next year, we will look into the possibilities of doing another type of visit.

The lowest score in the evaluation was regarding the cooperation between students in the group assignments (score 3.8). Group dynamics are always a bit tricky, and while group assignments are something we will not remove from the course, we will think about possibilities for having individual hand-ins also for labs carried out in groups.

Student representatives comments

The overall grade of the course Hydroponic systems in Horticultural Production and Public Environment (BI1233) was good and the students had an overall positive attitude towards the different elements of the course. The section of building hydroponic systems was highly appreciated, although some wished for more in-depth calculations of the systems regarding economical values and environmental perspectives. The lectures with guest lecturers, especially those who gave international perspectives, were also much appreciated.

The students were very pleased with the course leader, who has been clear in communication, engaged and attentive. Moreover, the students enjoyed the excursions, yet in the evaluation it was suggested to find venues even more focused on the hydroponic production, e.g. a plant factory.

However, in general, the course evaluation (both oral and written) implied that the aquaponic experiment and some of the laborations could have been better organized regarding time requirement, as well as with clearer instructions and improved physical environment.

Overall the students were pleased with the course and the mentioned suggestions were met with attentiveness from the course leader.