



Hydroponic Systems in Horticultural Production and Public Environment BI1233, 20082.2324

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

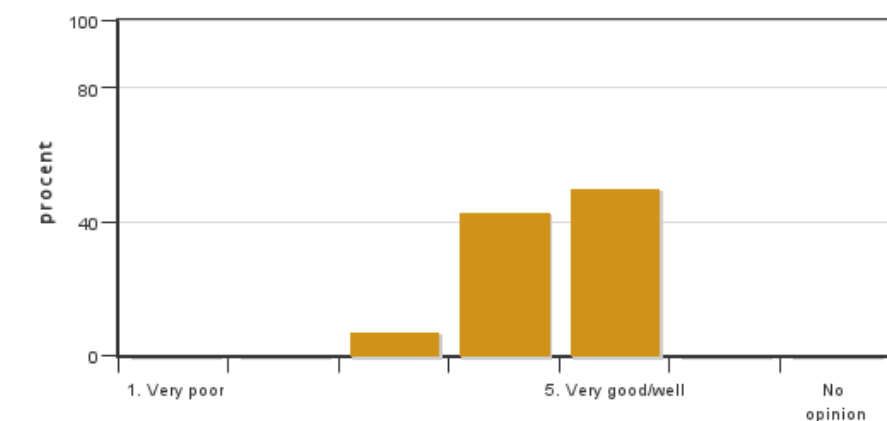
Evaluation report

Evaluation period: 2024-01-07 - 2024-01-28

Answers 14
Number of students 20
Answer frequency 70 %

Mandatory standard questions

1. My overall impression of the course is:

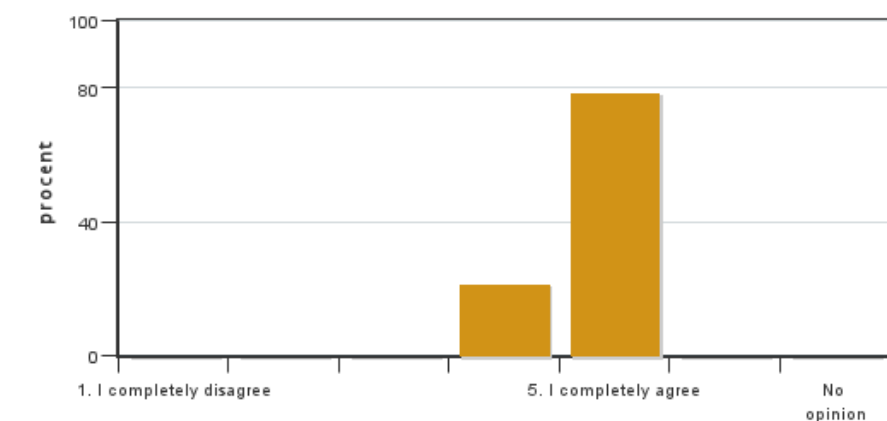


Answers: 14
Medel: 4,4
Median: 4

1: 0
2: 0
3: 1
4: 6
5: 7

No opinion: 0

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

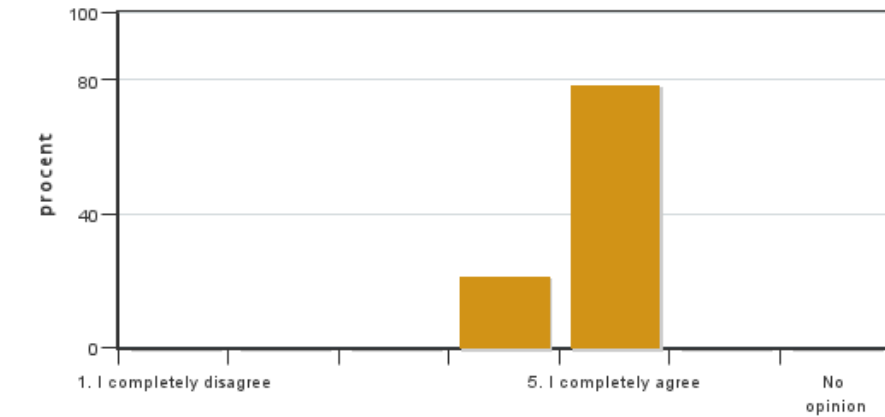


Answers: 14
Medel: 4,8
Median: 5

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

No opinion: 0

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

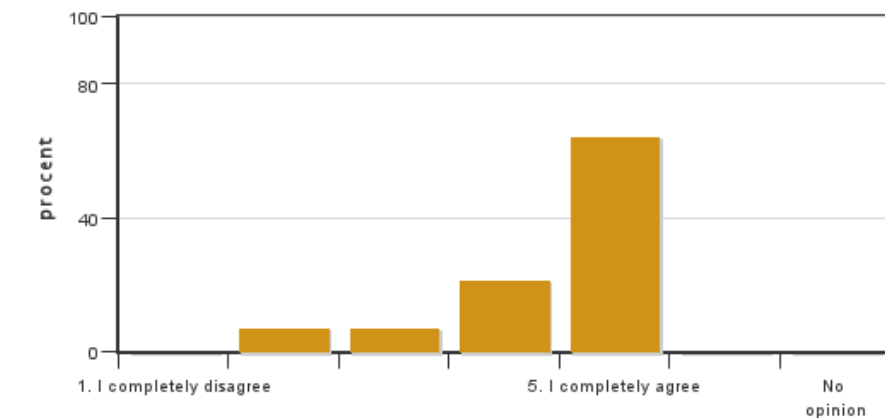


Answers: 14
 Medel: 4,8
 Median: 5

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

No opinion: 0

4. The information about the course was easily accessible.

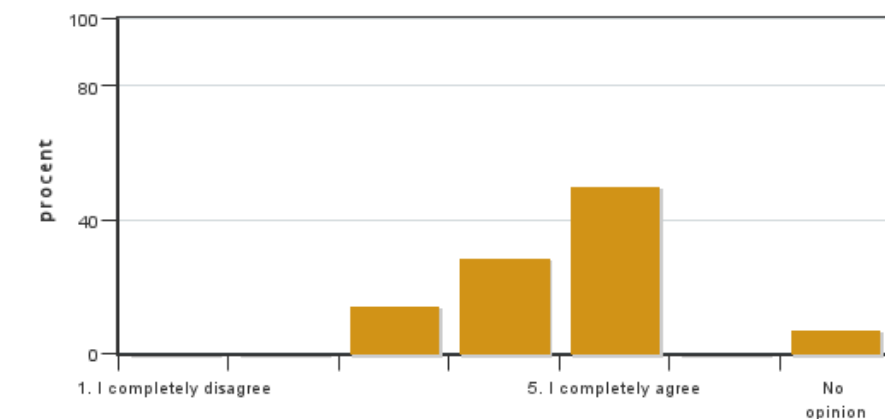


Answers: 14
 Medel: 4,4
 Median: 5

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

No opinion: 0

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



Answers: 14
 Medel: 4,4
 Median: 5

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

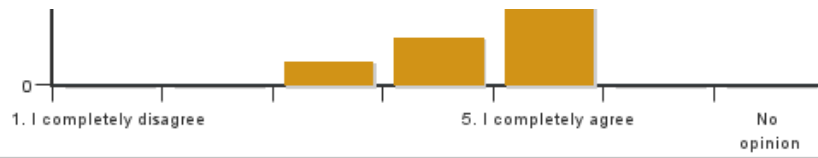
No opinion: 1

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



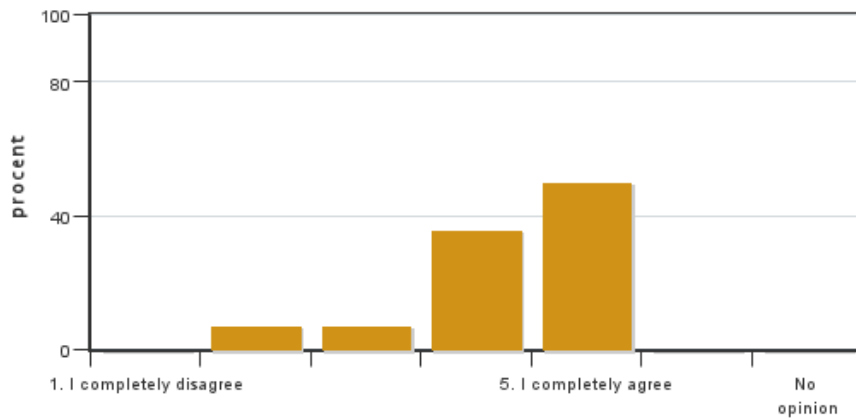
Answers: 14
 Medel: 4,7
 Median: 5

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



No opinion: 0

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



Answers: 14

Medel: 4,3

Median: 4

1: 0

2: 1

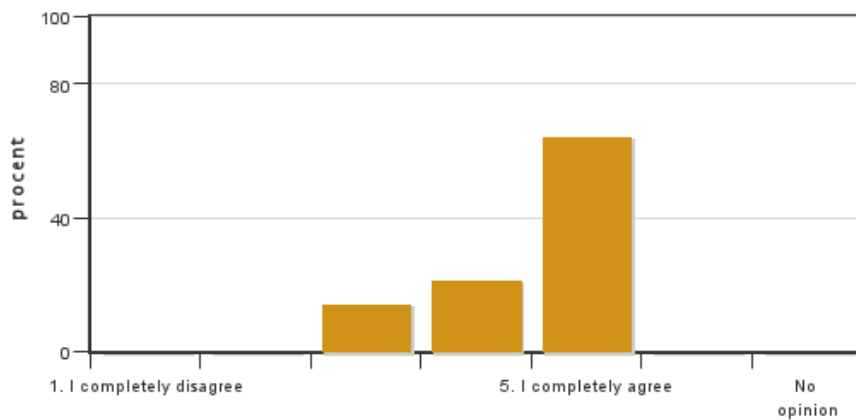
3: 1

4: 5

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: 14

Medel: 4,5

Median: 5

1: 0

2: 0

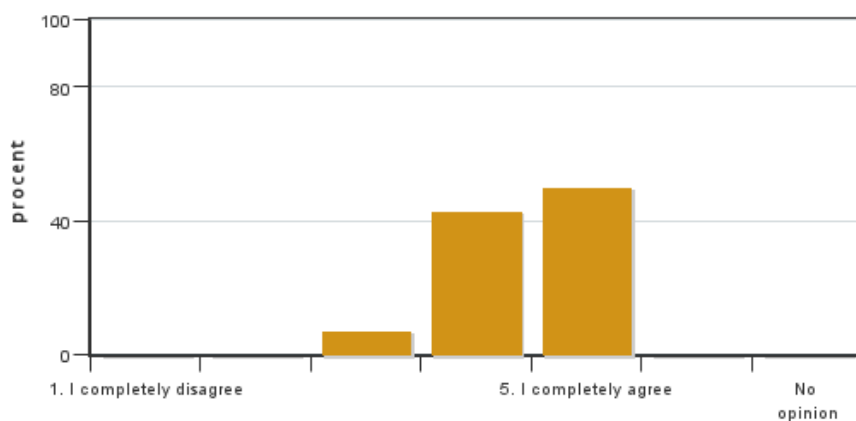
3: 2

4: 3

5: 9

No opinion: 0

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



Answers: 14

Medel: 4,4

Median: 4

1: 0

2: 0

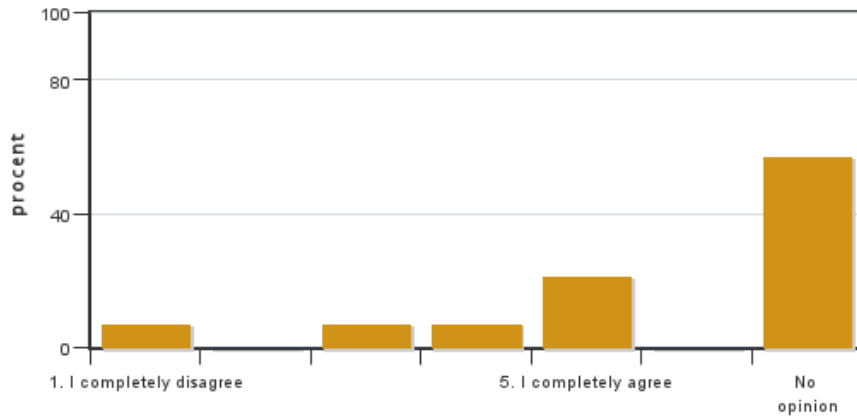
3: 1

4: 6

5: 7

No opinion: 0

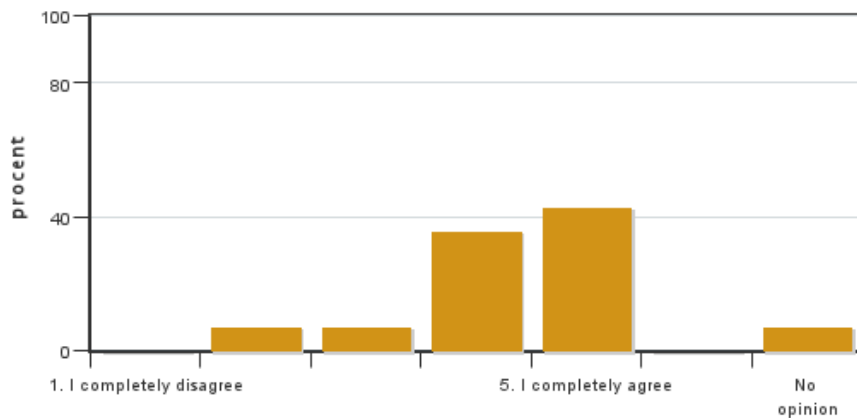
10. I believe the course has included a gender and equality aspect, regarding content as well as teaching practices (e.g. perspective on the subject, reading list, allocation of speaking time and the use of master suppression techniques).



Answers: 14
 Medel: 3,8
 Median: 4

1: 1
 2: 0
 3: 1
 4: 1
 5: 3
 No opinion: 8

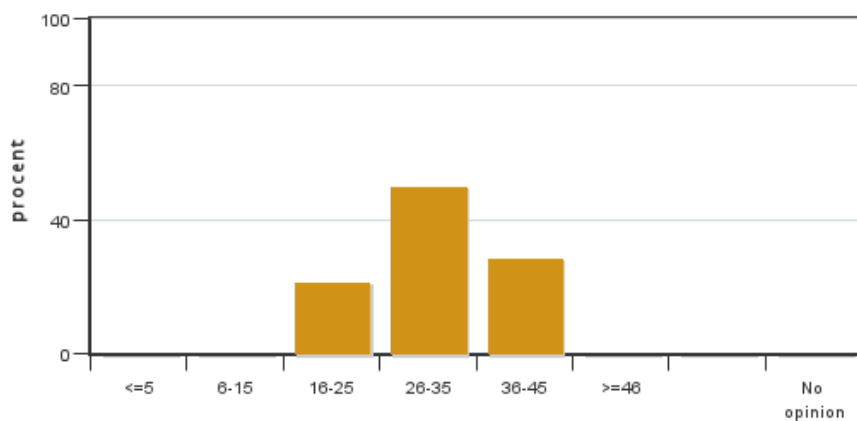
11. The course covered international perspectives.



Answers: 14
 Medel: 4,2
 Median: 4

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

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

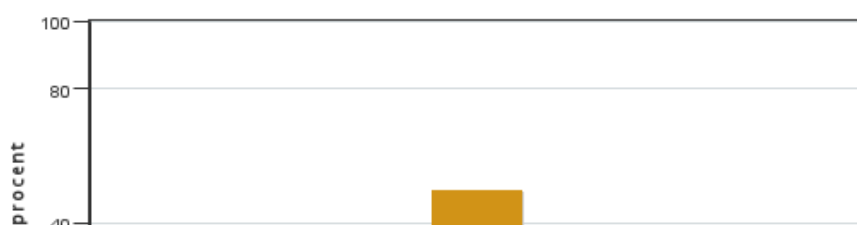


Answers: 14
 Medel: 30,7
 Median: 26-35

≤5: 0
 6-15: 0
 16-25: 3
 26-35: 7
 36-45: 4
 ≥46: 0
 No opinion: 0

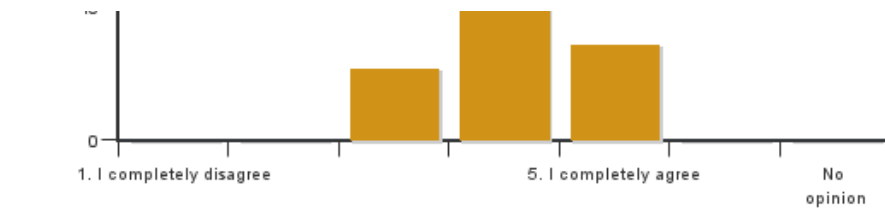
Additional own questions

13. I have made a good effort and reached my personal goals during the course



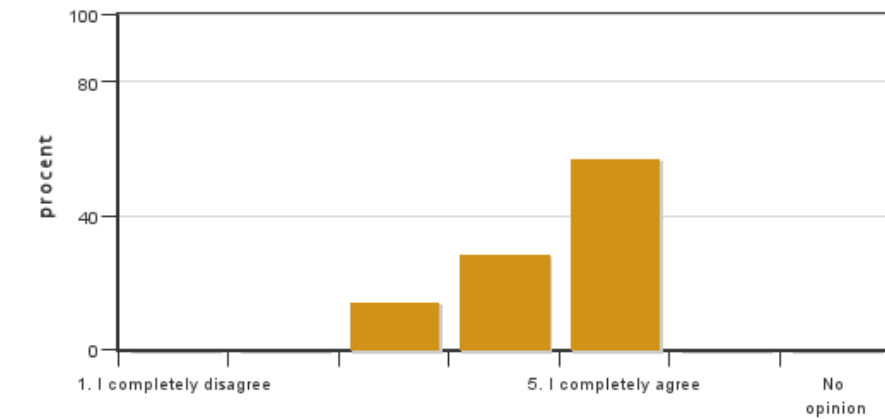
Answers: 14
 Medel: 4,1
 Median: 4

1: 0
 2: 0
 3: 3



4: 7
5: 4
No opinion: 0

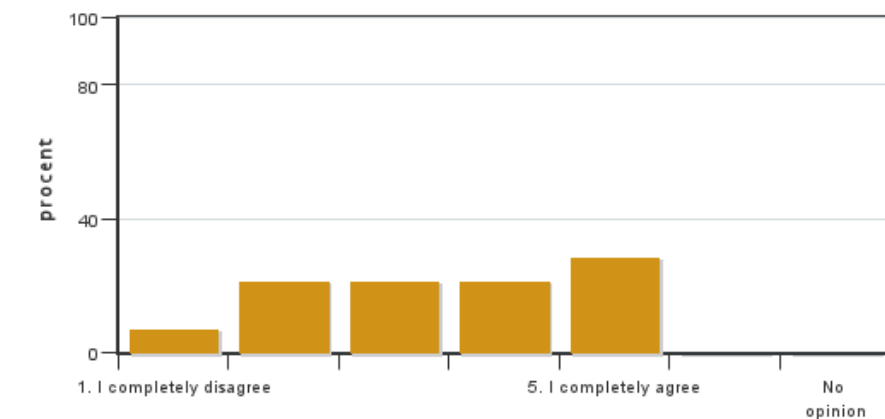
14. The teaching and the teachers have motivated me to do my best during the course



Answers: 14
Medel: 4,4
Median: 5

1: 0
2: 0
3: 2
4: 4
5: 8
No opinion: 0

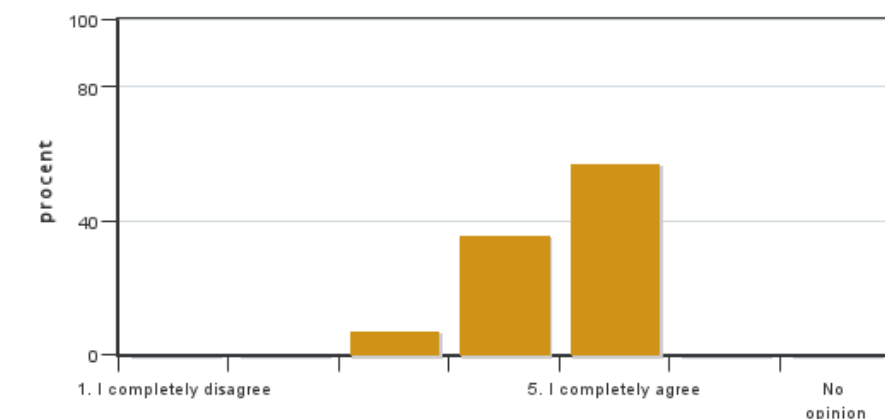
15. The cooperation between students in the group assignments have been good



Answers: 14
Medel: 3,4
Median: 3

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

16. The guest lecturers have been relevant and inspiring



Answers: 14
Medel: 4,5
Median: 5

1: 0
2: 0
3: 1
4: 5
5: 8
No opinion: 0

17. What has been particularly positive with the course?

17. What would you like to change with the course?

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, with 19 students. Most of the students came from the Horticultural Management program (Trädgårdsingenjör Odling), but there were also students from master 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 enjoyed the course. Answer frequency of the course evaluation was 70 %. The last day of the course we had an oral course evaluation that also reflected a very positive outcome of the course.

The course components that had lower scores were **course information** (4.4). There were some issues regarding instructions for two of the assignments which led to confusion. It's very good that this was pointed out and we will make sure to improve this for next year. Most of the exercises in the course takes place in the greenhouse. Due to the acoustics in the greenhouse it can be difficult to clearly hear what is being said, which means that long walkthroughs of instructions to the exercises can be difficult to follow, especially with a large group of students present. Some of the lecture halls were cold during the winter, which also caused the slightly lower score for **physical learning environment** (4.3). **Gender and equality aspects** had a score of 3.8. From the student comments it was clear that the low score was not a reflection of a lack of gender and equality aspects, but a comment on that it did not feel like a relevant question for the course. 8 out of 14 students voted "no opinion" for this aspect.

Overall, the course worked very well. The students were engaged in all practical assignments (where the building of their own hydroponic system was really appreciated), lectures and study visits.

Student representatives comments

Students enjoyed this course, especially the opportunity to design and build their own hydroponic systems. Some students felt that greater clarity could have been provided regarding the instructions for the practical lab work and assignments. The layout of information on canvas was also felt to be confusing in some instances.

Students from a mix of educational backgrounds felt their prior knowledge was sufficient to gain benefit from the course and those students from the 'tring' programme felt this course built successfully on their prior learnings. The social learning environment was deemed to be good and open. On average, students spent about 30.7 hours per week working on the course and most students felt they had sufficient time and information available to prepare for the exam.

The teachers on the course were well liked, deemed knowledgeable and supportive, and scored 4.4/5 for motivating the students. The guest lecturers were similarly popular and students enjoyed the excursions. However, some students disliked the volume of groupwork necessitated by the course and felt that contributions from some group members were unequal. It has been suggested that the groups be changed around more frequently or that more work could be individually graded to try and negate this issue.

There was a request for more up-to-date research on how to improve sustainability within soilless cultivation but otherwise students were satisfied with coverage of sustainability aspects in relation to conventional systems. Students also expressed a wish for more of the course literature to be made available through the library. Overall, the course was popular, scoring 4.4/5 amongst the students.