# 2870_1 Microscopy: Improve your Imaging Skills - from Sample Preparation to Image Analysis VT26 - Full

Respondents: 20
Answer Count: 15
Answer Frequency: 75.00%

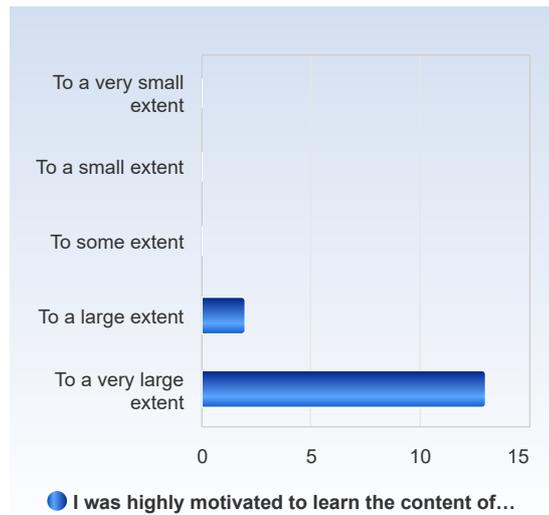## 1. The content of the course was clearly presented in the syllabus.

The content of the course was clearly presented in the syllabus.	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	5 (33.3%)
To a very large extent	10 (66.7%)
Total	15 (100.0%)
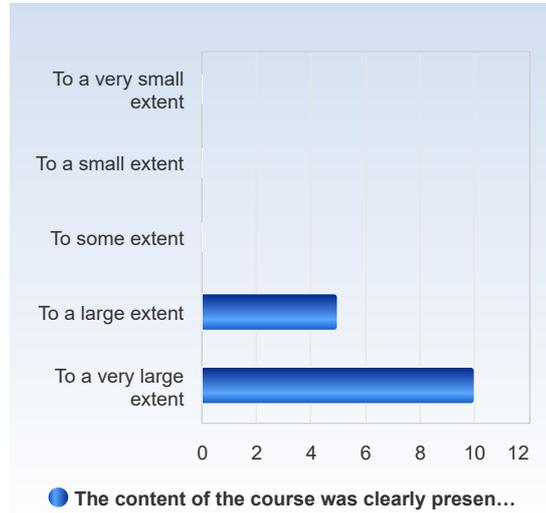
● The content of the course was clearly presen…

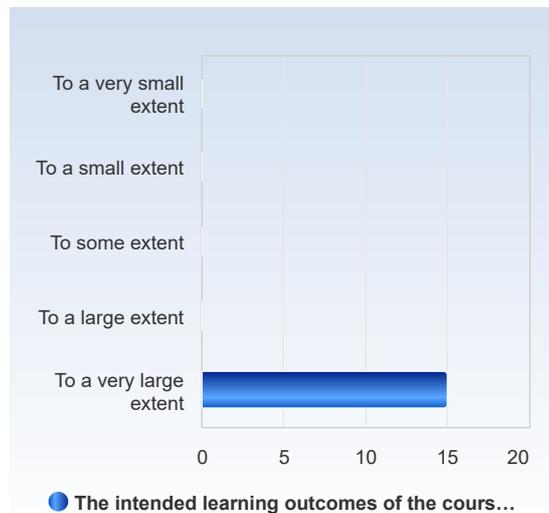|	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The content of the course was clearly presented in the syllabus.	4.7	0.5	10.5 %	4.0	4.0	5.0	5.0	5.0

2. I was highly motivated to learn the content of the course.

I was highly motivated to learn the content of the course.	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	2 (13.3%)
To a very large extent	13 (86.7%)
Total	15 (100.0%)

● I was highly motivated to learn the content of…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
I was highly motivated to learn the content of the course.	4.9	0.4	7.2 %	4.0	5.0	5.0	5.0	5.0

3. The intended learning outcomes of the course were clearly explained.

The intended learning outcomes of the course were clearly explained.	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	0 (0.0%)
To a very large extent	15 (100.0%)
Total	15 (100.0%)

● The intended learning outcomes of the cours…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The intended learning outcomes of the course were clearly explained.	5.0	0.0	0.0 %	5.0	5.0	5.0	5.0	5.0

4. The course design facilitated achievement of the intended learning outcomes.
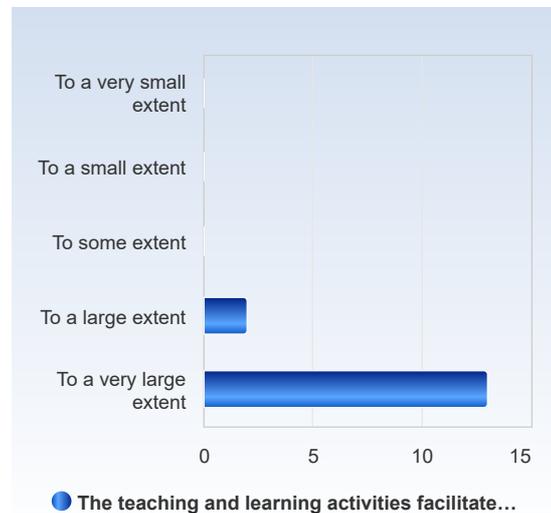
The course design facilitated achievement of the intended learning outcomes.	Number of responses
To a very small extent	0 (0.0%)
To a small extent	0 (0.0%)
To some extent	1 (6.7%)
To a large extent	2 (13.3%)
To a very large extent	12 (80.0%)
Total	15 (100.0%)

● The course design facilitated achievement of…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The course design facilitated achievement of the intended learning outcomes.	4.7	0.6	12.5 %	3.0	5.0	5.0	5.0	5.0

5. The teaching and learning activities facilitated achievement of the intended learning outcomes.

The teaching and learning activities facilitated achievement of the intended learning outcomes.	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	2 (13.3%)
To a very large extent	13 (86.7%)
Total	15 (100.0%)

● The teaching and learning activities facilitate…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The teaching and learning activities facilitated achievement of the intended learning outcomes.	4.9	0.4	7.2 %	4.0	5.0	5.0	5.0	5.0

6. During the course, I have received sufficient feedback from the teachers and/or the other
## course participants, when needed.

During the course, I have received sufficient feedback from the teachers and/or the other course participants, when needed.	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	0 (0.0%)
To a very large extent	15 (100.0%)
Total	15 (100.0%)

● During the course, I have received sufficient …

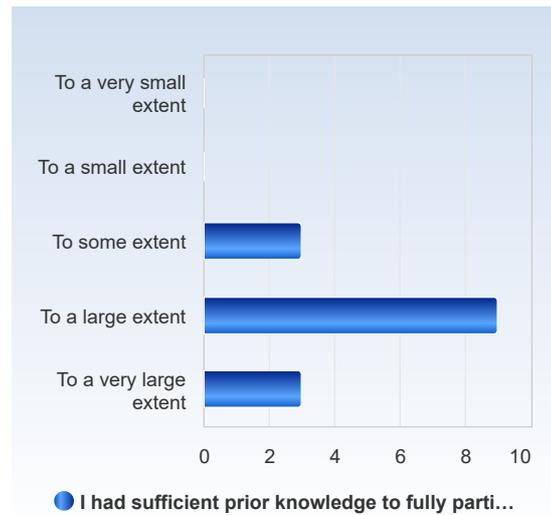|	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
During the course, I have received sufficient feedback from the teachers and/or the other course participants, when needed.	5.0	0.0	0.0 %	5.0	5.0	5.0	5.0	5.0

7. I have actively engaged in the course.

I have actively engaged in the course.	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	6 (40.0%)
To a very large extent	9 (60.0%)
Total	15 (100.0%)
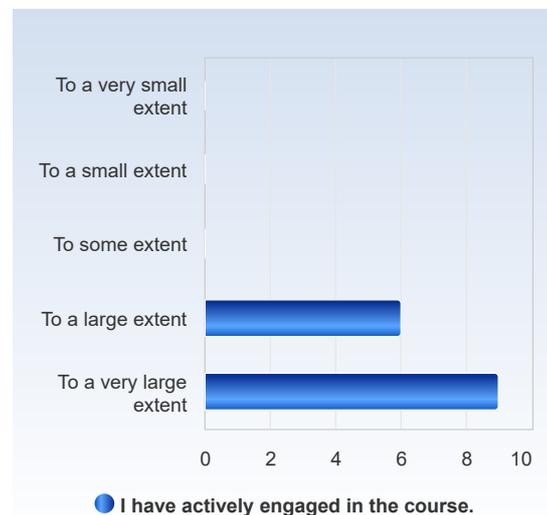
● I have actively engaged in the course.

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
I have actively engaged in the course.	4.6	0.5	11.0 %	4.0	4.0	5.0	5.0	5.0

## 8. I had sufficient prior knowledge to fully participate in the course.

I had sufficient prior knowledge to fully participate in the course.	Number of responses
To a very small extent	0 (0.0%)
To a small extent	0 (0.0%)
To some extent	3 (20.0%)
To a large extent	9 (60.0%)
To a very large extent	3 (20.0%)
Total	15 (100.0%)

● I had sufficient prior knowledge to fully parti…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
I had sufficient prior knowledge to fully participate in the course.	4.0	0.7	16.4 %	3.0	4.0	4.0	4.0	5.0

9. During the course, the teachers have been open to students' ideas and opinions about the course.

During the course, the teachers have been open to students' ideas and opinions about the course.	Number of responses
To a very small extent	0 (0.0%)
To a small extent	0 (0.0%)
To some extent	1 (6.7%)
To a large extent	1 (6.7%)
To a very large extent	13 (86.7%)
Total	15 (100.0%)
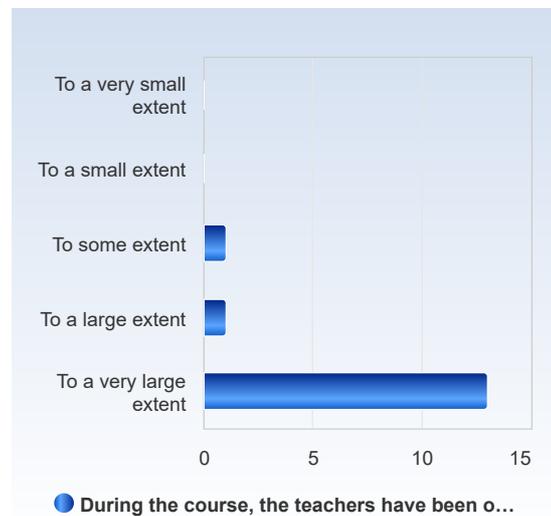
● During the course, the teachers have been o…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
During the course, the teachers have been open to students' ideas and opinions about the course.	4.8	0.6	11.7 %	3.0	5.0	5.0	5.0	5.0

10. During the course, I have developed valuable expertise/skills.

During the course, I have developed valuable expertise/skills.	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 (20.0%)
To a very large extent	12 (80.0%)
Total	15 (100.0%)
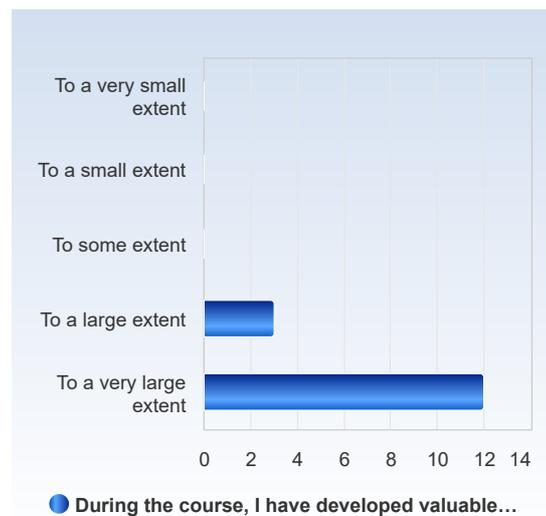
● During the course, I have developed valuable…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
During the course, I have developed valuable expertise/skills.	4.8	0.4	8.6 %	4.0	5.0	5.0	5.0	5.0

11. During the course, I have developed my ability to critically analyse and evaluate research findings. *(If the question is not relevant to this course, select the response option "Not applicable")*

| During the course, I have developed my ability to critically analyse and evaluate research findings. *(If the question is not relevant to this course, select the response option "Not applicable")*	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	6 (40.0%)
To a very large extent	8 (53.3%)
Not applicable	1 (6.7%)
Total	15 (100.0%)

● During the course, I have developed my abilit…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
During the course, I have developed my ability to critically analyse and evaluate research findings. *(If the question is not relevant to this course, select the response option "Not applicable")*	4.6	0.5	11.2 %	4.0	4.0	5.0	5.0	5.0

12. The examination adequately assessed the achievement of the intended learning outcomes.

The examination adequately assessed the achievement of the intended learning outcomes.	Number of responses
To a very small extent	0 (0.0%)
To a small extent	0 (0.0%)
To some extent	1 (6.7%)
To a large extent	4 (26.7%)
To a very large extent	10 (66.7%)
Total	15 (100.0%)
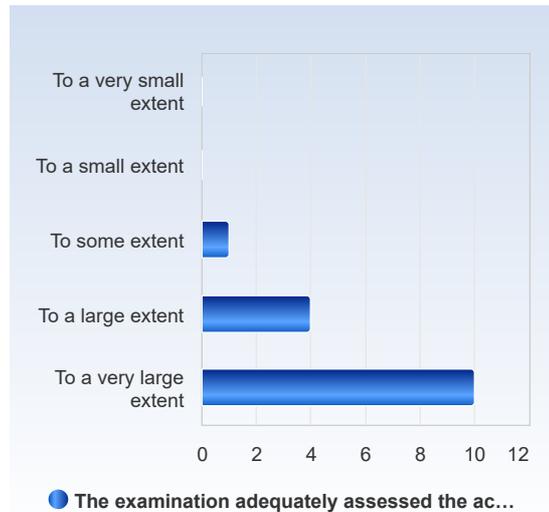
The examination adequately assessed the ac…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
The examination adequately assessed the achievement of the intended learning outcomes.	4.6	0.6	13.7 %	3.0	4.0	5.0	5.0	5.0

## 13. I have achieved the intended learning outcomes of the course.

I have achieved 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	0 (0.0%)
To a large extent	7 (46.7%)
To a very large extent	8 (53.3%)
Total	15 (100.0%)
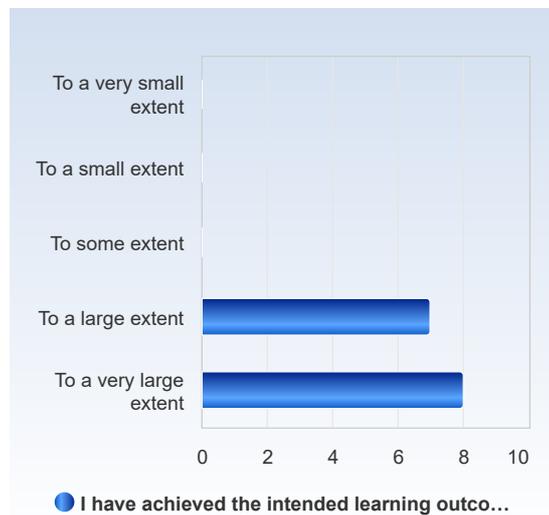
I have achieved the intended learning outco…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
I have achieved the intended learning outcomes of the course.	4.5	0.5	11.4 %	4.0	4.0	5.0	5.0	5.0

14. From my perspective the workload was reasonable in relation to the number of credits.

From my perspective the workload was reasonable in relation to the number of credits.	Number of responses
To a very small extent	0 (0.0%)
To a small extent	1 (6.7%)
To some extent	1 (6.7%)
To a large extent	5 (33.3%)
To a very large extent	8 (53.3%)
Total	15 (100.0%)
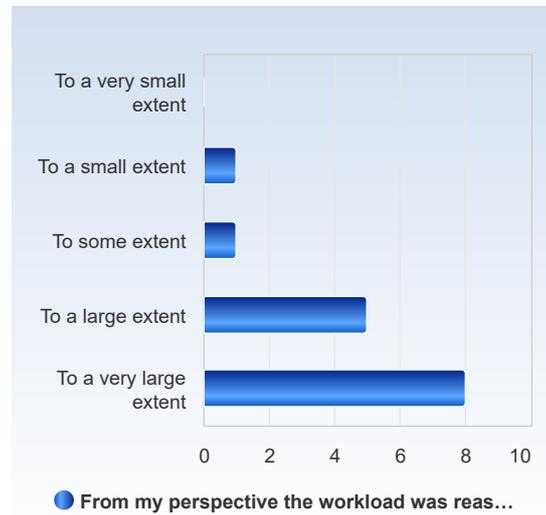
● **From my perspective the workload was reas…**

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
From my perspective the workload was reasonable in relation to the number of credits.	4.3	0.9	20.8 %	2.0	4.0	5.0	5.0	5.0

15. This course has fulfilled my expectations of a high quality course.

This course has fulfilled my expectations of a high quality course.	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	2 (13.3%)
To a very large extent	13 (86.7%)
Total	15 (100.0%)

● This course has fulfilled my expectations of …

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
This course has fulfilled my expectations of a high quality course.	4.9	0.4	7.2 %	4.0	5.0	5.0	5.0	5.0

16. Were there any parts of the course that were excellent? If so, please specify which parts and in what way.

Were there any parts of the course that were excellent? If so, please specify which parts and in what way.
All the lectures, the way all concepts were clearly explained.
Several parts of the course were excellent, especially the personalized feedback, which made the learning experience feel tailored and supportive. The workshops with other students were also very helpful, as they encouraged collaboration and created an environment where everyone tried to help one another, making the experience more interactive and enriching. Additionally, the lectures had very strong content that was clearly structured and thoroughly explained without assuming prior knowledge, making everything easy to understand and follow.
The people running the course were very involved; they always solved questions on time and even gave extra time after lectures for discussions. The student workshop was very useful, and the fact that we learned about light microscopy by using our own samples made it easier to understand the learning objectives. Even though there were plenty of quizzes and assignments to complete, they were very useful for consolidating learning in each module. I am very satisfied with the course.
The detailed course content and regular feedback from all the teachers, how the content is applicable to each student's particular microscopy needs
The course is very oriented towards your own project which makes the teachings more practical rather than just theoretical knowledge. You also get a lot of individual feedback on the different assignments which help you improve and learn from mistakes.
The course was exceptional, particularly the Imaging sessions, assignment feedback, and workshops. The concepts were delivered with remarkable clarity, providing a solid theoretical foundation. Most importantly, the instruction was highly tailored to my individual project, offering specific, actionable insights that significantly advanced my research.
The organisation of the content on canvas, time keeping and feedback on our assignments.
The student imaging challenge was incredibly helpful. It allowed us to apply theory directly to our images, with feedback that enabled us to spot other errors.
Very excellent course and amazing teachers with their great contributions to help me refine my imaging skills. With the help of the course, now I have built a solid foundation of microscopy and become more confident with my imaging skills.
all parts of the course were excellent and highly helpful and genuinely interessting.
the course instructors were great! they handed out high quality teaching and timely feedbacks. they were also very understanding with regards to the assignment submissions.
I really enjoyed the colocalization lecture, particularly the fact that little exercises were intertwined with the theoretical knowledge. I also appreciated the detailed feedback that was given through the portfolio assignments, it helped shedding light on parts of the course that were not fully understood and that I had to focus on.

17. Do you have any recommendations as to how the course could be improved? If so, please specify which parts and how.

| Do you have any recommendations as to how the course could be improved? If so, please specify which parts and how. |
| --- |
| I don't have any i think the course is excellent. |
| It would be better to know in advance the exact day we need to deliver assignments that require microscopy. Now it is said at the beginning of the course to book the microscope at the end of each week, but it would be better to know the assignment deadlines to know better when to book the microscope. |
| Overall, I found the course very valuable, but the content felt quite heavy at times, with many new concepts introduced in a short period. Splitting the course into two parts would help participants absorb the material more effectively. This would give us time to practice between sections, consolidate what we've learned, and return with more informed questions. |
| I would probably make it a bit more flexible in terms of the assignments deadline dates. Working on this course from 9am to 11pm is not very efficient especially when it comes to write and submit assignments. |
| The course is extremely intense and sometimes requires you to work outside of working hours. However, I don't have specific ideas on how to improve the situation, except making more generous deadlines or keeping the tolerance for late assignments. Also, the course organizers require communication from students for organization purposes before the course even starts. Therefore, it should take place further away from the Christmas brake. This way, students won't be asked to answer during their vacations. |
| Publish modules in advance if possible so students can plan their assignment submissions, especially those requiring the use of a microscope |
| One or two days of the second week became quite heavy with lectures and workshops from 9 to 17 and then assignments with deadline the same evening.. But this was not a problem later on in the course, it was handled nicely and some deadlines were pushed to another day. |
| I do not have any recommendations for improvement, as the course is very good as it is. The content, organization, and overall structure work very well, and the learning experience has been highly positive. |
| Maybe let more time after each module to digest the course. Sometin el felt like I understood but finally I didn't. |
| some assignments require prior preparation, it would be great if the instructions were slightly clearer. |
| The analysis part could be expanded a bit more, including more types of analysis methods. All the rest is perfect. |

18. Would you recommend this course to others enrolled in doctoral education? *(Answer only if you are a doctoral student, otherwise select the response option "Not applicable")*

Would you recommend this course to others enrolled in doctoral education? *(Answer only if you are a doctoral student, otherwise select the response option "Not applicable")*	Number of responses
Yes	13 (86.7%)
No	0 (0.0%)
Not applicable	2 (13.3%)
Total	15 (100.0%)
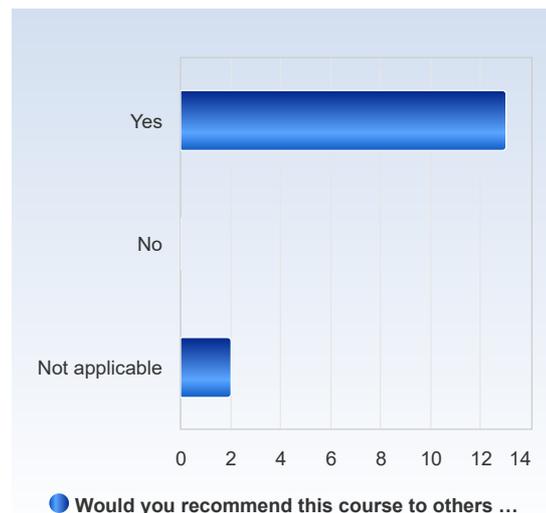
● Would you recommend this course to others …

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
Would you recommend this course to others enrolled in doctoral education? *(Answer only if you are a doctoral student, otherwise select the response option "Not applicable")*	1.0	0.0	0.0 %	1.0	1.0	1.0	1.0	1.0

Comparison with all doctoral courses evaluated at KI during 2025 ("Aggregated" includes all evaluations for that calendar year)

	Course mean	Aggregated mean	Difference of means	Course median	Aggregated median	Course P25	Aggregated P25	Course P75	Aggregated P75
Q1 Course content	4.67	4.41	0.26	5.00	5.00	4.00	4.00	5.00	5.00
Q2 Motivation	4.87	4.39	0.48	5.00	5.00	5.00	4.00	5.00	5.00
Q3 Clear Intended learning outcomes	5.00	4.35	0.65	5.00	4.00	5.00	4.00	5.00	5.00
Q4 Course design	4.73	4.26	0.48	5.00	4.00	5.00	4.00	5.00	5.00
Q5 Teaching and learning activities	4.87	4.27	0.60	5.00	4.00	5.00	5.00	5.00	5.00
Q6 Feedback	5.00	4.22	0.78	5.00	4.00	5.00	4.00	5.00	5.00
Q7 Engagement	4.60	4.37	0.23	5.00	5.00	4.00	4.00	5.00	5.00
Q8 Prior knowledge	4.00	3.96	0.04	4.00	4.00	4.00	3.00	4.00	5.00
Q9 Student input	4.80	4.43	0.37	5.00	5.00	5.00	4.00	5.00	5.00
Q10 Expertise/skills	4.80	4.23	0.57	5.00	4.00	5.00	4.00	5.00	5.00
Q11 Critical analysis	4.57	4.16	0.41	5.00	4.00	4.00	4.00	5.00	5.00
Q12 Examination	4.60	4.28	0.32	5.00	4.00	4.00	4.00	5.00	5.00
Q13 Achieved intended learning outcomes	4.53	4.22	0.32	5.00	4.00	4.00	4.00	5.00	5.00
Q14 Workload	4.33	4.14	0.20	5.00	4.00	4.00	4.00	5.00	5.00
Q15 Fulfilled expectations	4.87	4.28	0.59	5.00	5.00	5.00	4.00	5.00	5.00

19. This course gave a strong boost to the microscopy aspect of my research

This course gave a strong boost to the microscopy aspect of my research	Number of responses
To a very small extent	0 (0.0%)
To a small extent	0 (0.0%)
To some extent	1 (6.7%)
To a large extent	2 (13.3%)
To a very large extent	12 (80.0%)
Total	15 (100.0%)

This course gave a strong boost to the micro…

	Mean	Standard Deviation	Coefficient of Variation	Min	Lower Quartile	Median	Upper Quartile	Max
This course gave a strong boost to the microscopy aspect of my research	4.7	0.6	12.5 %	3.0	5.0	5.0	5.0	5.0