

## 2820 Microscopy: how to improve your imaging skills VT15

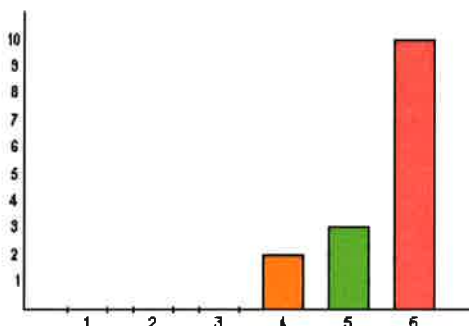
Number of participants: 16

Number of answers: 15

1. The level of the course correlates with the description of the course  
(1 = strongly disagree; 6 = strongly agree).

Answers to this question: 15

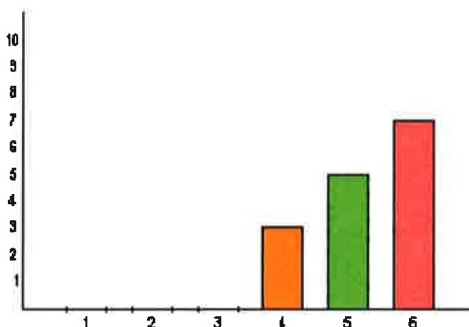
1	0	0%
2	0	0%
3	0	0%
4	2	13.3%
5	3	20%
6	10	66.7%
Mean value	5.53	
Median	6	



2. The intended learning outcomes (ILOs) of the course were adequately explained  
(1 = strongly disagree; 6 = strongly agree).

Answers to this question: 15

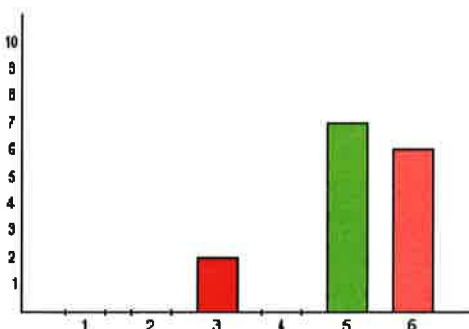
1	0	0%
2	0	0%
3	0	0%
4	3	20%
5	5	33.3%
6	7	46.7%
Mean value	5.27	
Median	5	



3. There was a clear connection between the content, the intended learning outcomes as well as the examination of the course  
(1 = strongly disagree; 6 = strongly agree).

Answers to this question: 15

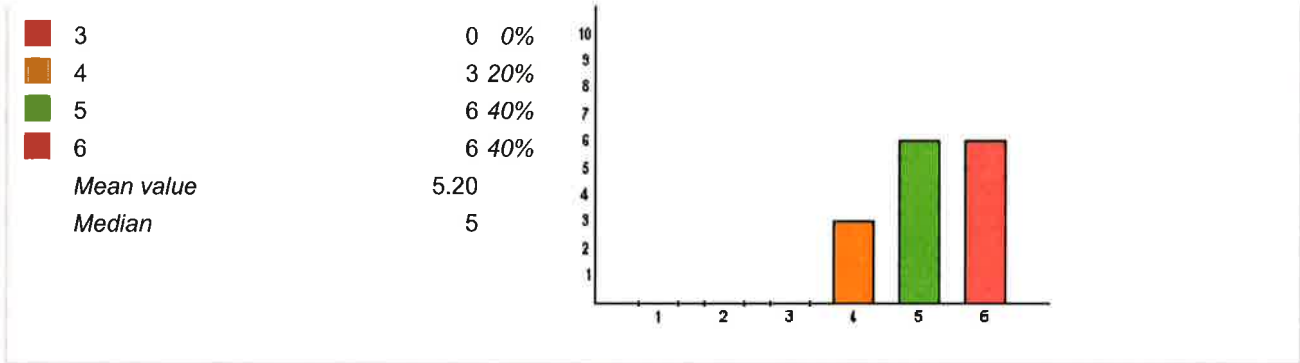
1	0	0%
2	0	0%
3	2	13.3%
4	0	0%
5	7	46.7%
6	6	40%
Mean value	5.13	
Median	5	



4. The course design facilitated achievement of the intended learning outcomes  
(1 = strongly disagree; 6 = strongly agree).

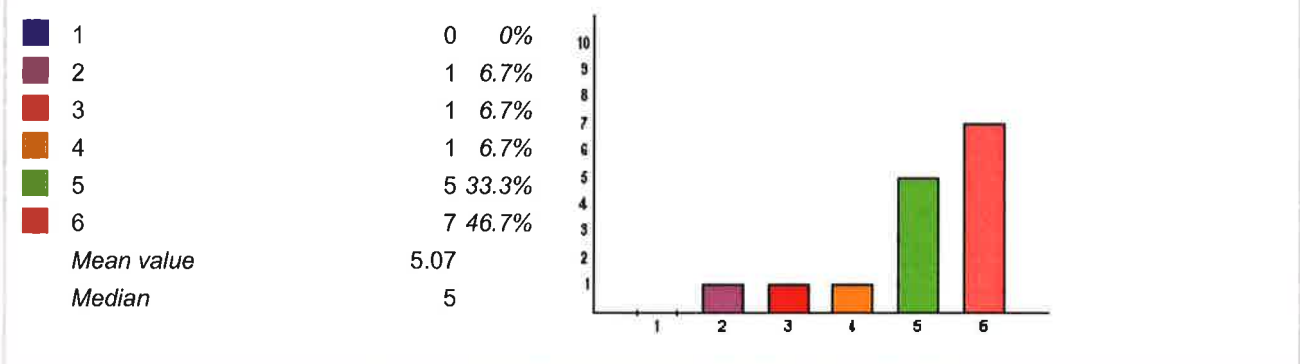
Answers to this question: 15

1	0	0%
2	0	0%



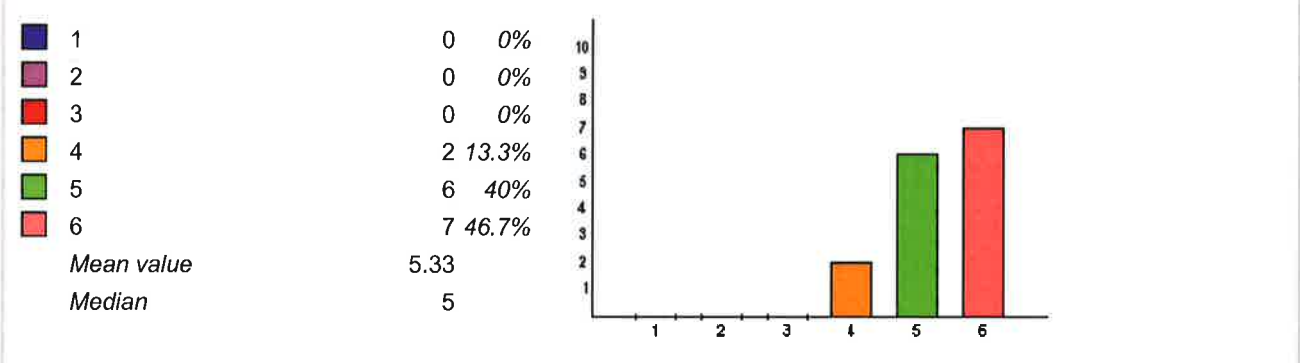
**5. The examination was focused on understanding and/or application of knowledge**  
 (1 = strongly disagree; 6 = strongly agree).

Answers to this question: 15



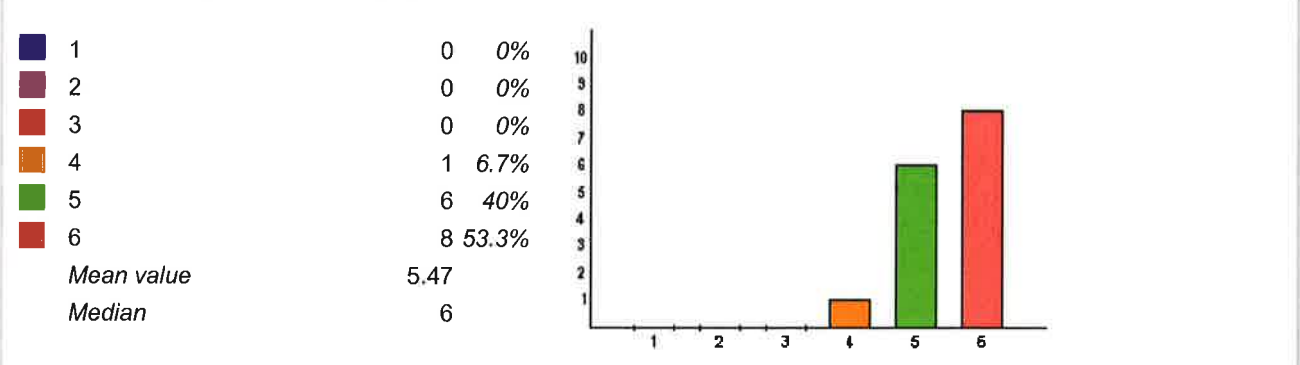
**6. I achieved the intended learning outcomes**  
 (1 = strongly disagree; 6 = strongly agree).

Answers to this question: 15



**7. The teachers facilitated the achievement of the intended learning outcomes in an adequate way**  
 (1 = strongly disagree; 6 = strongly agree).

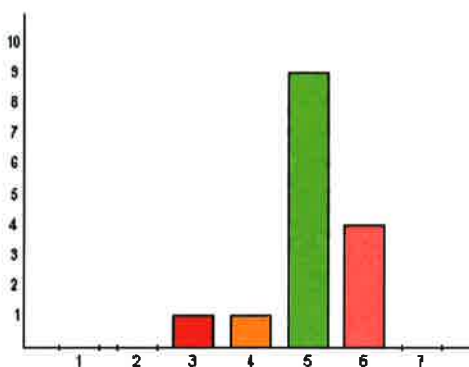
Answers to this question: 15



**8. How challenging was the course for you? For me the level of the course was:**  
(1=too low; 7=too high)

Answers to this question: **15**

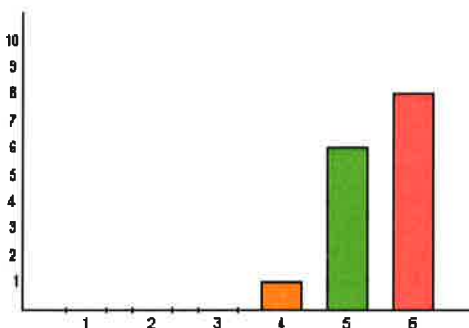
1	0	0%
2	0	0%
3	1	6.7%
4	1	6.7%
5	9	60%
6	4	26.7%
7	0	0%
<i>Mean value</i>	5.07	
<i>Median</i>	5	



**9. I have received relevant feedback during the course**  
(1 = strongly disagree; 6= strongly agree).

Answers to this question: **15**

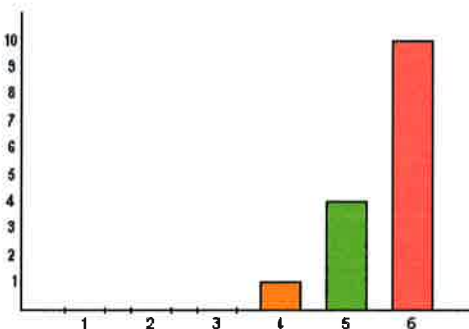
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3	0	0%
4	1	6.7%
5	6	40%
6	8	53.3%
<i>Mean value</i>	5.47	
<i>Median</i>	6	



**10. This course has fulfilled my expectations of what ought to be a doctoral education course of high quality**  
(1 = strongly disagree; 6 = strongly agree).

Answers to this question: **15**

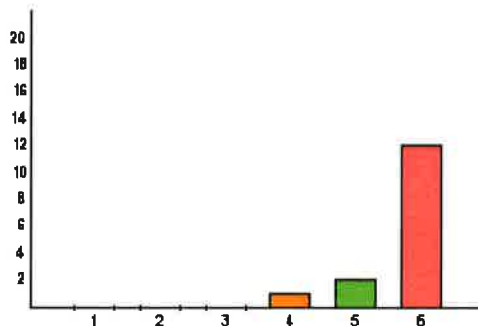
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3	0	0%
4	1	6.7%
5	4	26.7%
6	10	66.7%
<i>Mean value</i>	5.60	
<i>Median</i>	6	



**11. I was highly motivated in taking this course**  
(1= strongly disagree; 6= strongly agree)

Answers to this question: **15**

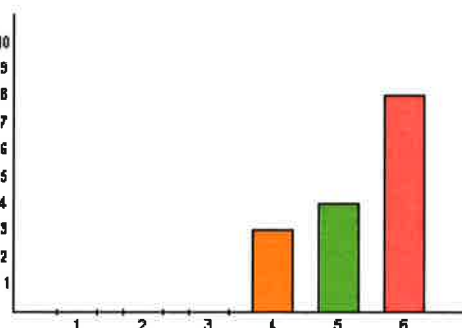
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3	0	0%
4	1	6.7%
5	2	13.3%
6	12	80%



**12. I had sufficient prior knowledge to be able to fully participate in the course**  
(1= strongly disagree; 6= strongly agree)

Answers to this question: 15

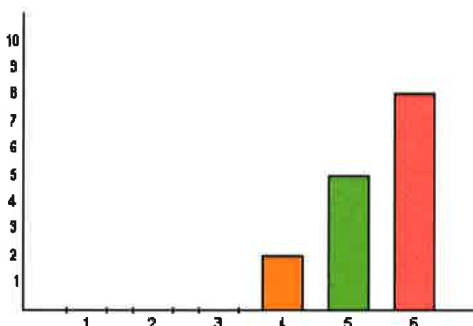
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2	0	0%
3	0	0%
4	3	20%
5	4	26.7%
6	8	53.3%



**13. I have contributed to and engaged in the course**  
(1=strongly disagree; 6= strongly agree)

Answers to this question: 15

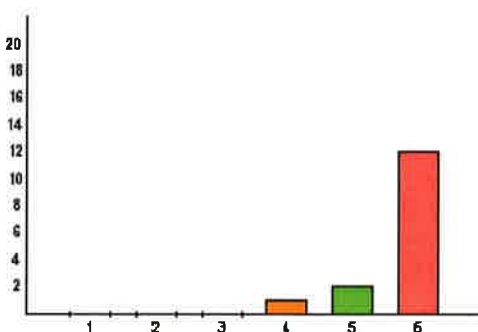
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3	0	0%
4	2	13.3%
5	5	33.3%
6	8	53.3%



**14. The course has increased my knowledge of recent advances within my field, in related areas or in general science subjects**  
(1= strongly disagree; 6= strongly agree)

Answers to this question: 15

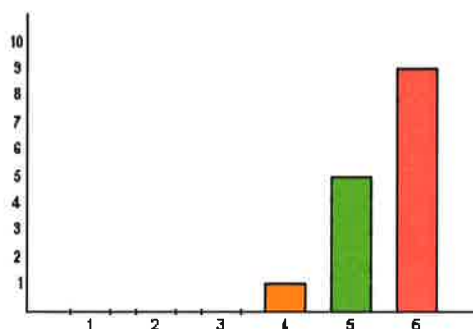
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2	0	0%
3	0	0%
4	1	6.7%
5	2	13.3%
6	12	80%



**15. The course has increased my understanding of relevant research methodologies and techniques and their appropriate application within my research field**  
(1=strongly disagree; 6=strongly agree)

Answers to this question: 15

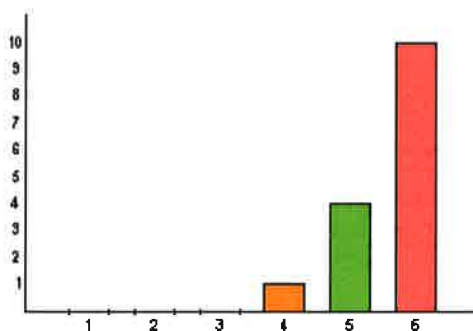
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2	0	0%
3	0	0%
4	1	6.7%
5	5	33.3%
6	9	60%



**16. The course has increased my ability to critically analyse and evaluate research findings**  
(1= strongly disagree; 6= strongly agree).

Answers to this question: 15

1	0	0%
2	0	0%
3	0	0%
4	1	6.7%
5	4	26.7%
6	10	66.7%



**17. Are there any parts of the course that have been excellent? Please describe in what way.**

Answers to this question: 11

Majority of lectures were excellent and they supplemented the hands on practical sessions.

- own sample analyses - cell profiler course

details and practical info, discussing student's imaging challenges

The course coordinator Sylvie Le Guyader. She was motivating us, she was patient with us, always super energetic and ready to help despite the super intense program!

Imaging workshops and lectures

The workshops dedicated to analyzing our samples were quite relevant

focus on fundamental knowledge and practical part workshops are good

Workshop and Sylvies lectures

The lectures by Sylvie Le Guyader were excellent! Together with workshops that were demonstrating different topics from the lectures.

The workshops and all the practical tips that I got during the course.

The mix between workshops and lectures. And the mix of lectures, with Sylvies more general and "basic" lectures and the more specialized or application oriented lectures by invited speakers or companies.

**18. Are there any parts of the course that did not help you to achieve the intended learning outcomes? Please describe why not?**

Answers to this question: 9

None

- corning

Imaris intro was not satisfactory.

there was some speakers that didn't provide any really useful information. It was more like advertising their products without giving any scientific input!

Lectures presented by the commercial companies and especially the lecture about the statistics, I thought it was irrelevant.

No

no

A bit to stressful during the whole course, please make this course a 4-5 hp with the same amount of knowledge/lectures/workshop.

No.

**19. Did the course cover the areas that you expected? If not what was missing?**

Answers to this question: 9

None

yes

yes

I was expecting a little bit more hands on practice! to have the time to use the microscopes ourselves!

Course covered the areas I was expected

Yes, although some areas could be more explored.

yes

Yes

Yes, the course covered most of what I expected but I thought that it would be more focus on your own sample and how to acquire proper data from that.

**20. Do you have any recommendations as to how the course could be further improved?**

Answers to this question: 11

In general course was excellent.

stay to your time schedule!! Don't try to put 8 student presentations in one hour and plan everything with more time. try to cover a bitt less material, but cover it good!

more time for self study and summarizing the info, putting the hands-on session after the introduction to that technique.

I would like to keep better the schedule because it was really difficult to keep up with the lab work when the timetable of the courses changes all the time and we finish always after 18:30...

Yes. 1st of all the course organizers should re-evaluate the time schedule of the course. In the schedule that was given to student prior to the course it was stated that student will be free after 16.30 o'clock, in practice, we were done not earlier than 6pm nearly every day. I think it was very disrespectful from the organizers. 2nd the examination form of the course was too much: we were asked to prepare a presentation in groups; each day we were given the questions to answer about topics of the day and in the end we had a written exam as well. As a doctoral student I would prefer to have a reflective discussions or interactive discussions with brain storming instead of written examination.

For further editions I recommend I double revision of the program/schedule. Due to a tight schedule, we ran late quite often. Personally, I would had liked the imaging analyses had been more explored with other methodologies.

It will be nice to have more time to look at individual samples on different microscope systems, since not everyone have access to this kind of facility to have access to different microscopes. I will also be nice to have longer time on some of the workshops for example, Imaris, Storm etc.

A bit to stressful during the whole course, please make this course a 4-5 hp with the same amount of knowledge/lectures/workshop.

Some more time for the Imaging challenge and image acquisition from you own sample.

I think the schedule was a bit to busy. It would have been good with a couple if afternoons with free time so that you could keep up the work in your own lab.

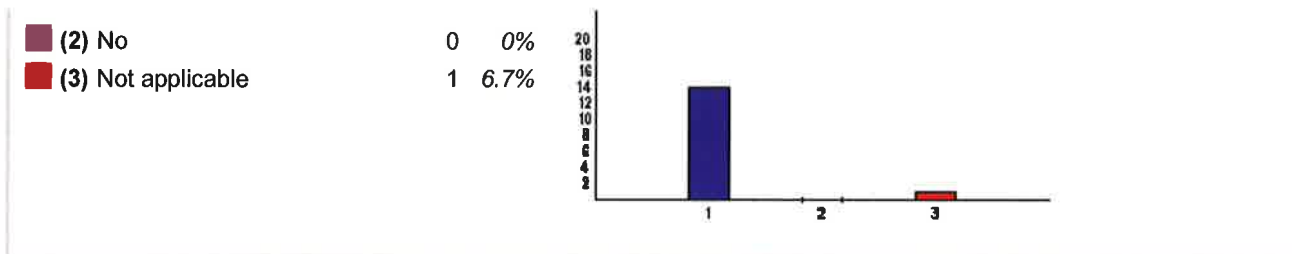
The course was one of the best I had in my 4 years in KI. It could be even better if the workshops were more interactive. However I understand that this might be difficult to implement.

**21. I would recommend this course to others enrolled in doctoral education**

Answers to this question: 15

■ (1) Yes

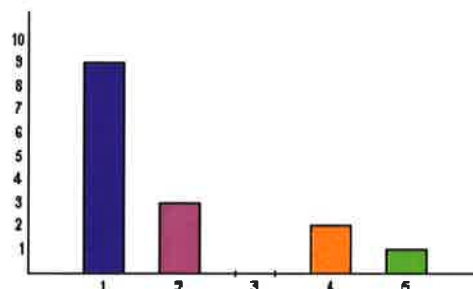
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**22. In what capacity did you attend this course?**

Answers to this question: 15

(1) Doctoral student at KI or KI partner university	9	60%
(2) Doctoral student at another university in Sweden	3	20%
(3) Doctoral student at another university outside Sweden	0	0%
(4) Postdoc at KI	2	13.3%
(5) Other, please specify:	1	6.7%



**Other, please specify:**

Research engineer at other university