

FYTB03 vt16

Respondents: 25
Answer Count: 14
Answer Frequency: 56,00 %

General opinion

Give your opinion in the scale 1-5.

1 = very negative

2 = negative

3 = neutral

4 = positive

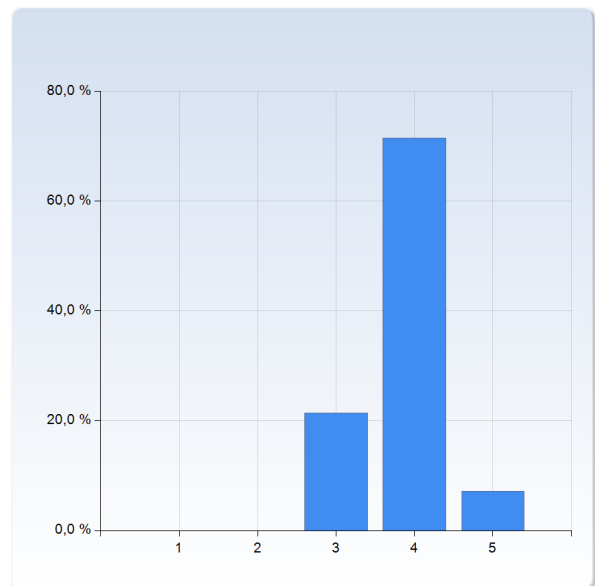
5 = very positive

The comment field in the end is very important! It will help us understand what is to be kept when the grade is good, and what to change when the grade is poor.

What is your general opinion of...

the course overall?

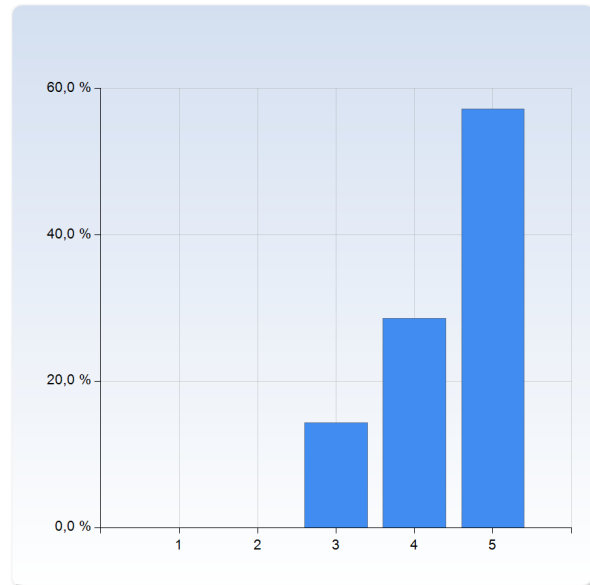
the course overall?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	3 (21,4%)
4	10 (71,4%)
5	1 (7,1%)
Total	14 (100,0%)



the course overall?	Mean	Standard Deviation
	3,9	0,5

the topics covered in the course

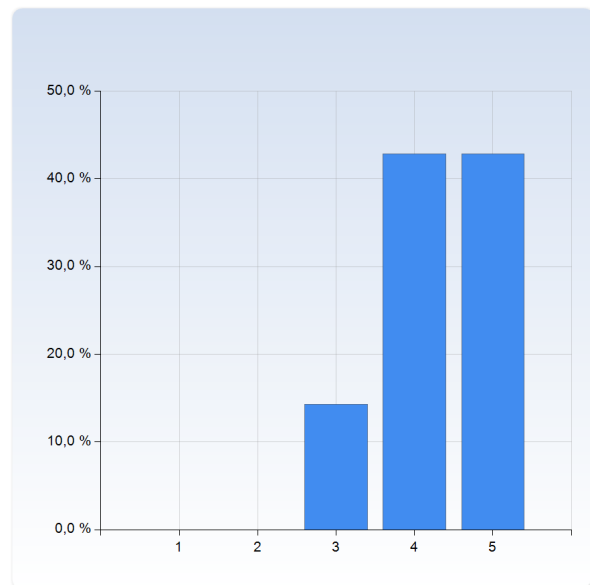
the topics covered in the course	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	2 (14,3%)
4	4 (28,6%)
5	8 (57,1%)
Total	14 (100,0%)



the topics covered in the course	Mean	Standard Deviation
	4,4	0,8

the structure of the course

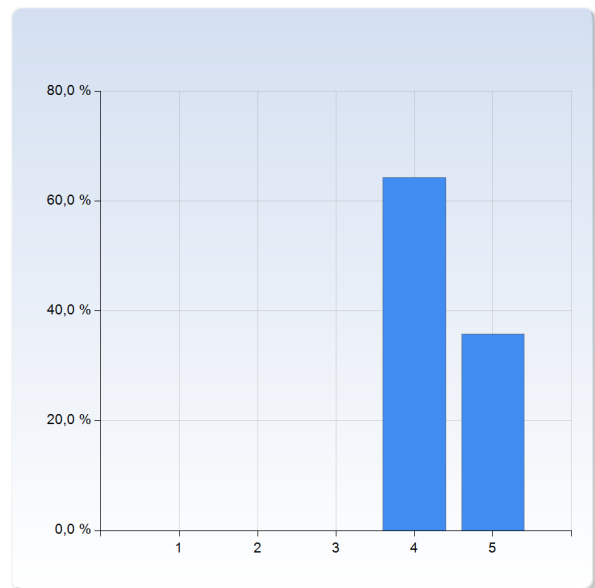
the structure of the course	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	2 (14,3%)
4	6 (42,9%)
5	6 (42,9%)
Total	14 (100,0%)



the structure of the course	Mean	Standard Deviation
	4,3	0,7

the information about the course when it started?

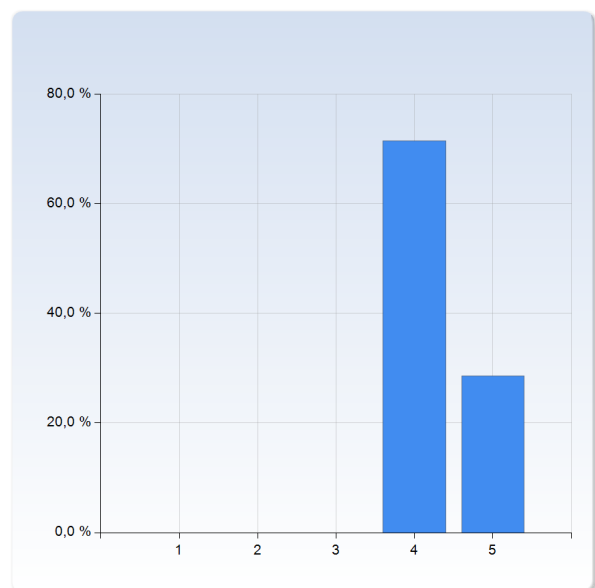
the information about the course when it started?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	9 (64,3%)
5	5 (35,7%)
Total	14 (100,0%)



	Mean	Standard Deviation
the information about the course when it started?	4,4	0,5

the information about what was expected of you?

the information about what was expected of you?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	10 (71,4%)
5	4 (28,6%)
Total	14 (100,0%)



	Mean	Standard Deviation
the information about what was expected of you?	4,3	0,5

Comments (help us interpret your grades!)

The 4's are to be interpreted as "found no flaws but wasn't blown away by sheer awesomeness".

There were no surprises in the content of the course after reading the summary and outline of the class before it started, which is good.

The two subjects was not very related and it thus felt like two different courses.

Litterature

Give your opinion in the scale 1-5.

1 = very negative

2 = negative

3 = neutral

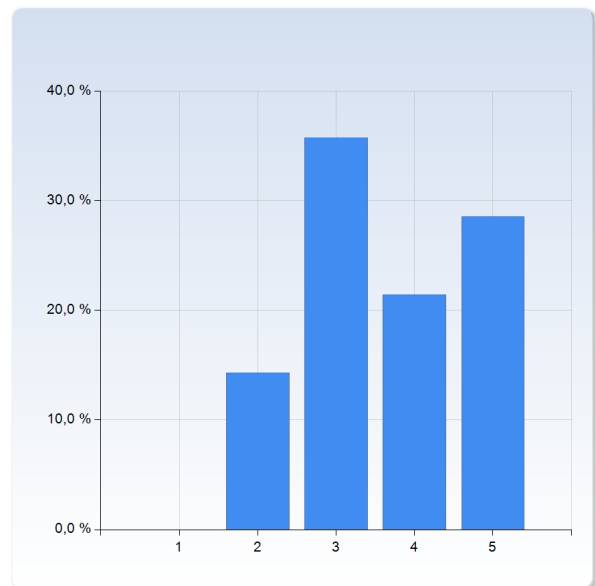
4 = positive

5 = very positive

What is your opinion of...

the book "Classical Mechanics" by Taylor?

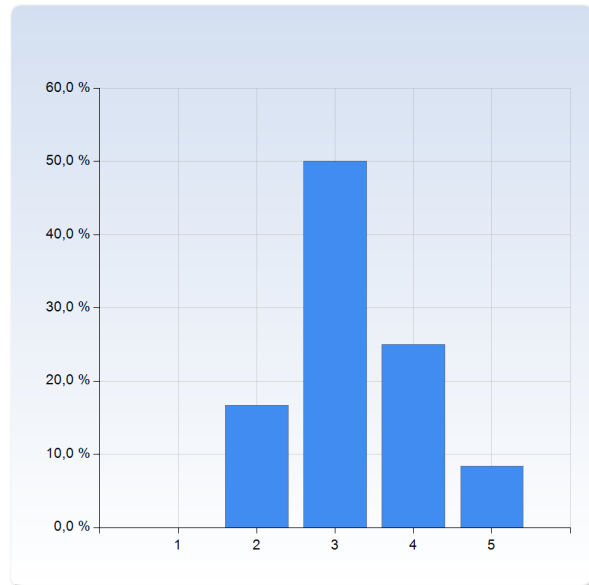
the book "Classical Mechanics" by Taylor?	Number of Responses
1	0 (0,0%)
2	2 (14,3%)
3	5 (35,7%)
4	3 (21,4%)
5	4 (28,6%)
Total	14 (100,0%)



	Mean	Standard Deviation
the book "Classical Mechanics" by Taylor?	3,6	1,1

the book "Introduction to special relativity" by Rindler?

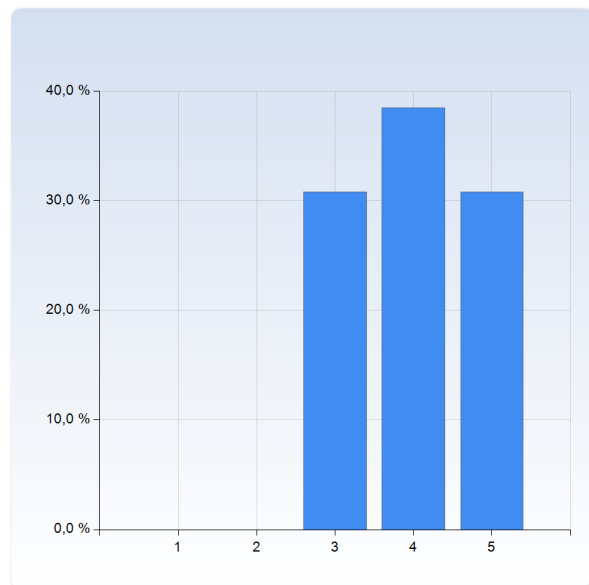
the book "Introduction to special relativity" by Rindler?	Number of Responses
1	0 (0,0%)
2	2 (16,7%)
3	6 (50,0%)
4	3 (25,0%)
5	1 (8,3%)
Total	12 (100,0%)



	Mean	Standard Deviation
the book "Introduction to special relativity" by Rindler?	3,3	0,9

lecture notes available on the web?

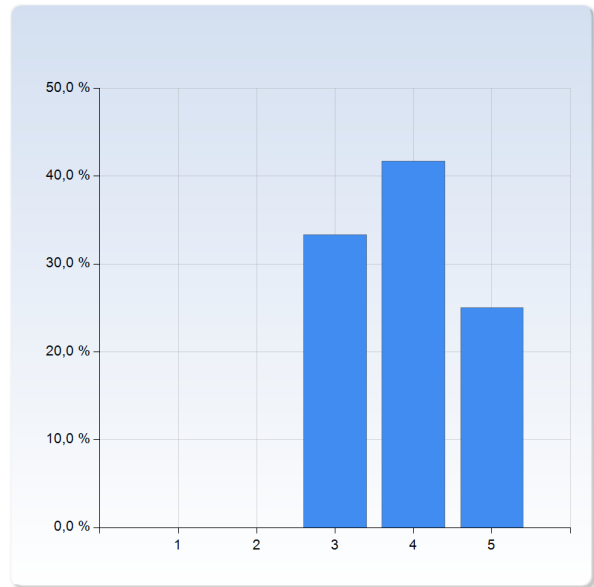
lecture notes available on the web?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	4 (30,8%)
4	5 (38,5%)
5	4 (30,8%)
Total	13 (100,0%)



	Mean	Standard Deviation
lecture notes available on the web?	4,0	0,8

handouts

handouts	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	4 (33,3%)
4	5 (41,7%)
5	3 (25,0%)
Total	12 (100,0%)



	Mean	Standard Deviation
handouts	3,9	0,8

Comments

Taylor's book should be supplemented with a more rigorous mathematical text.

I did not use the books by Taylor and Rindler but the book by Hans-Uno Bengtsson. But that one was really bad, it did not fit my style with all the text that had no connection to physics.

I did not use the book by Rindler.

Did not use the latter 3; heard bad things about Rindler. Taylor might have received a 4 if he didn't use that weird (+++-) metric. Bengtsson was a clear 6.

The lecture notes were really the only thing consistent with the structure of the whole course as the book seemed hard to locate the exact topics we were covering at that time

I did not use Rindler and the lecture notes enough to have an opinion.

I only used Taylor and Bengtsson which both were really good, don't know anything about the other.

I only used HUB's book

Did not use Rindler's book.

Teaching

Give your opinion in the scale 1-5.

1 = very negative

2 = negative

3 = neutral

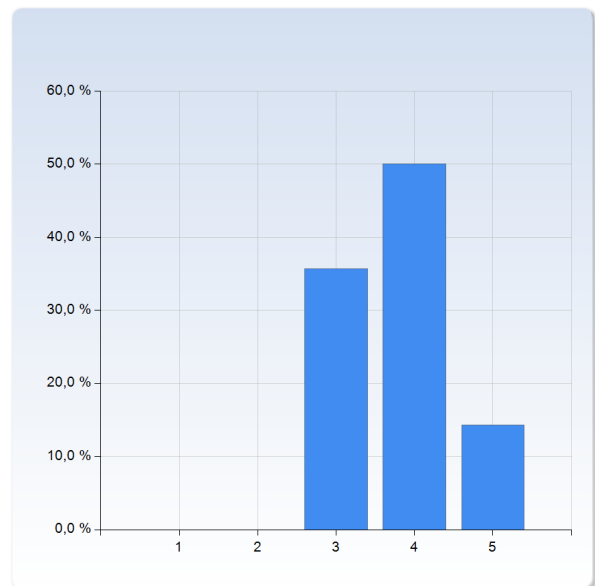
4 = positive

5 = very positive

What is your opinion of...

lectures with Malin Sjö Dahl

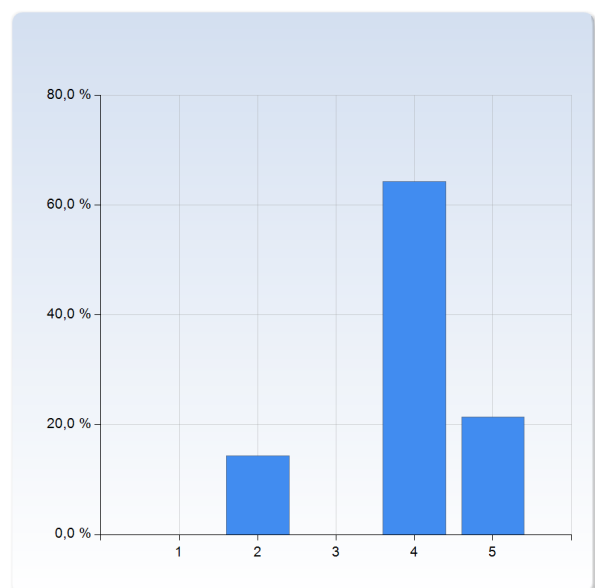
lectures with Malin Sjö Dahl	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	5 (35,7%)
4	7 (50,0%)
5	2 (14,3%)
Total	14 (100,0%)



	Mean	Standard Deviation
lectures with Malin Sjö Dahl	3,8	0,7

the problem solving classes?

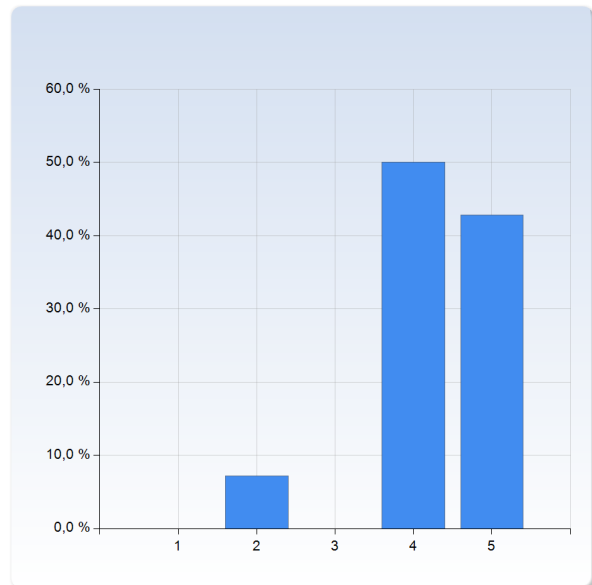
the problem solving classes?	Number of Responses
1	0 (0,0%)
2	2 (14,3%)
3	0 (0,0%)
4	9 (64,3%)
5	3 (21,4%)
Total	14 (100,0%)



	Mean	Standard Deviation
the problem solving classes?	3,9	0,9

the problems for the problem solving classes?

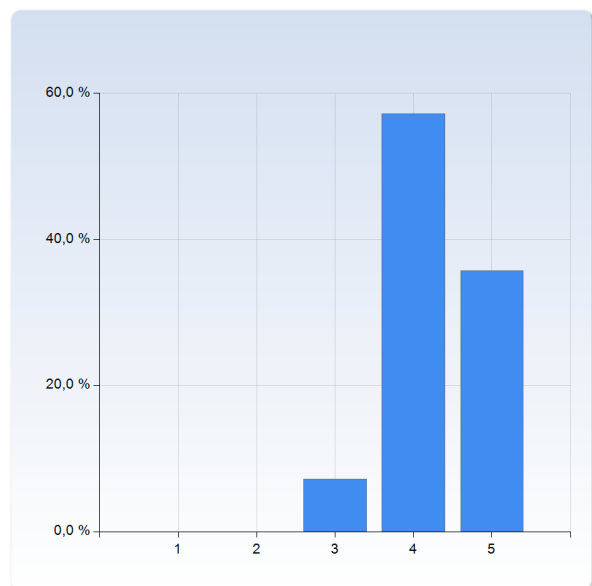
the problems for the problem solving classes?	Number of Responses
1	0 (0,0%)
2	1 (7,1%)
3	0 (0,0%)
4	7 (50,0%)
5	6 (42,9%)
Total	14 (100,0%)



	Mean	Standard Deviation
the problems for the problem solving classes?	4,3	0,8

the balance between lectures and problem-solving classes?

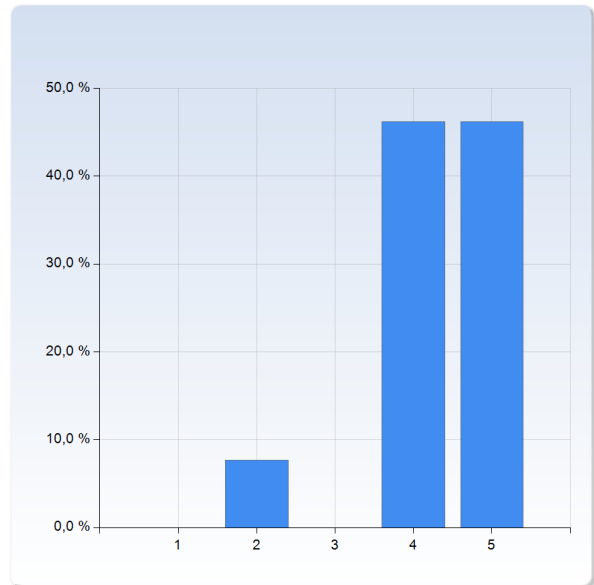
the balance between lectures and problem-solving classes?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	1 (7,1%)
4	8 (57,1%)
5	5 (35,7%)
Total	14 (100,0%)



	Mean	Standard Deviation
the balance between lectures and problem-solving classes?	4,3	0,6

the SI sessions?

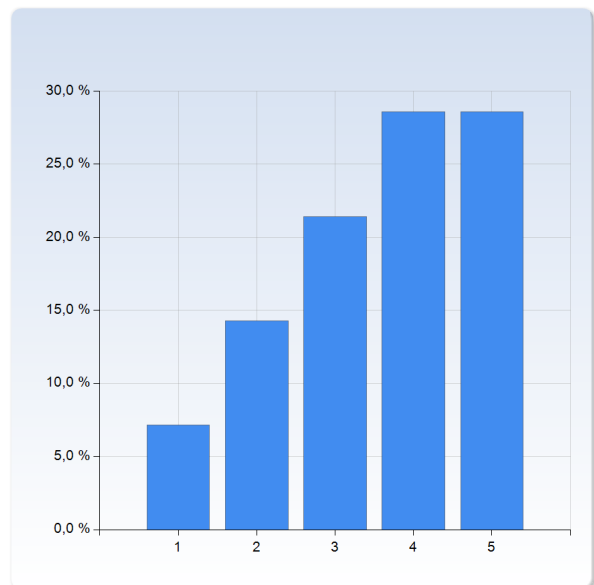
the SI sessions?	Number of Responses
1	0 (0,0%)
2	1 (7,7%)
3	0 (0,0%)
4	6 (46,2%)
5	6 (46,2%)
Total	13 (100,0%)



the SI sessions?	Mean	Standard Deviation
	4,3	0,9

the laboratory exercise "normal modes"

the laboratory exercise "normal modes"	Number of Responses
1	1 (7,1%)
2	2 (14,3%)
3	3 (21,4%)
4	4 (28,6%)
5	4 (28,6%)
Total	14 (100,0%)



the laboratory exercise "normal modes"	Mean	Standard Deviation
	3,6	1,3

Comments

Normal modes lab felt like a lot of work for very little benefit.

The laboratory exercise needs to be upgraded in order to have a more modern setup. Maybe use lasers for measurements.

Malin was a bit unenthusiastic and mechanical (pun intended) in the beginning, but got better in the parts she seemed to be interested in. The lab was interesting, but come on, just because we're theorists doesn't mean that the equipment HAS to be rock-bottom.

The lectures were full of a lot of useful information and covered what I expected thoroughly. Malin went a little fast at times and left little room for questions but clear most of the time. Problems and exercises were fair and challenging. The laboratory exercise seemed a little too emphasized on theoretical topics that weren't necessarily covered in class but still interesting. I thought it might have been a little bit better catered to what we were learning

The lectures were a little stiff with a lot of writing, but otherwise they were good. I liked that Malin wrote more on the board than just the equating but sometimes it became too much.

The exercise sessions were well run and were good practice. They were also well placed immediately after the lectures

I would have liked if the tempo was a bit higher on the lectures.

Examination

Give your opinion in the scale 1-5.

1 = very negative

2 = negative

3 = neutral

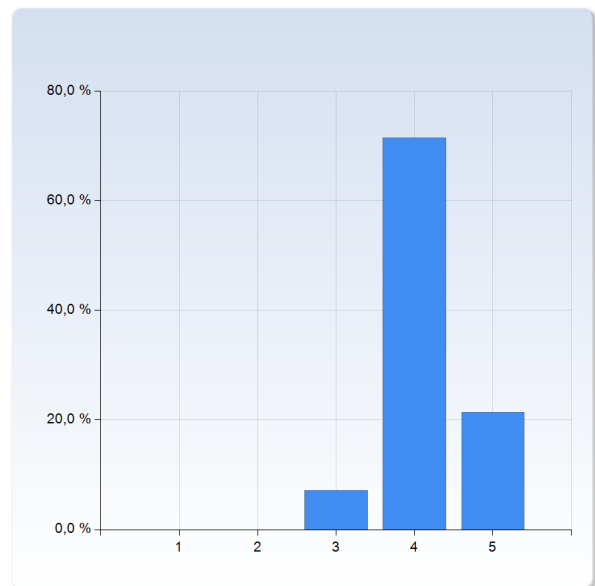
4 = positive

5 = very positive

What is your opinion of...

the hand-in exercises?

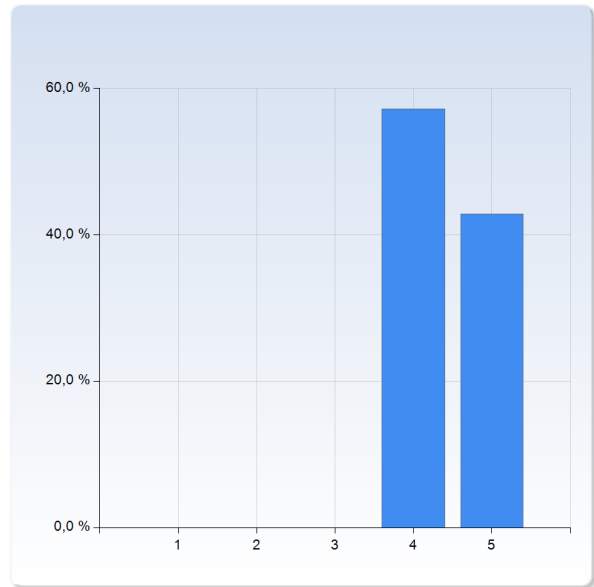
the hand-in exercises?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	1 (7,1%)
4	10 (71,4%)
5	3 (21,4%)
Total	14 (100,0%)



the hand-in exercises?	Mean	Standard Deviation
	4,1	0,5

the bonus system with the hand-in exercises?

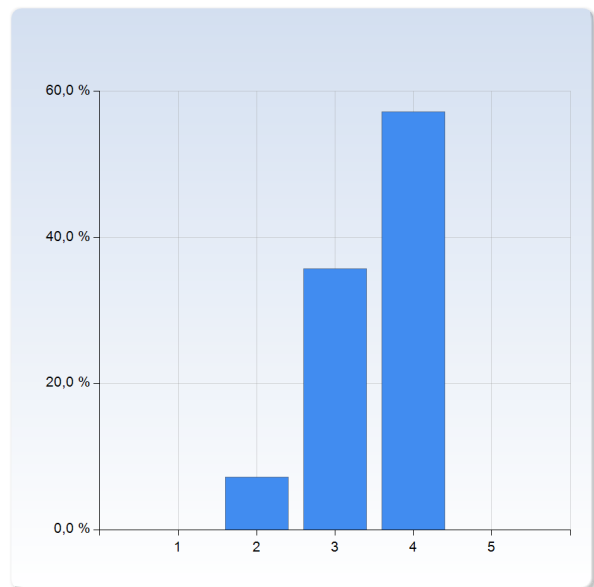
the bonus system with the hand-in exercises?	Number of Responses
1	0 (0,0%)
2	0 (0,0%)
3	0 (0,0%)
4	8 (57,1%)
5	6 (42,9%)
Total	14 (100,0%)



the bonus system with the hand-in exercises?	Mean	Standard Deviation
	4,4	0,5

the written exam?

the written exam?	Number of Responses
1	0 (0,0%)
2	1 (7,1%)
3	5 (35,7%)
4	8 (57,1%)
5	0 (0,0%)
Total	14 (100,0%)



the written exam?	Mean	Standard Deviation
	3,5	0,7

Comments

Hand-ins are nice. More please!

Hand in exercises were challenging yet solvable, I thought it was accurately representative of the class. The bonus system seems just and even to all students.

I am not a fan of bonus points, but I shouldn't complain, because I guess I needed them.

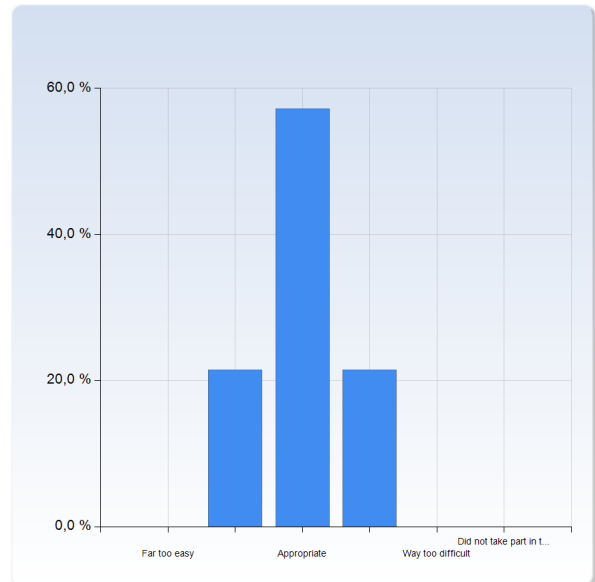
I think the exam was good - it wasn't just book-work, the questions really made you think, and I think they really tested your knowledge and skills

Level of difficulty

Describe how you perceived the level of difficulty on the different course modules

Lectures

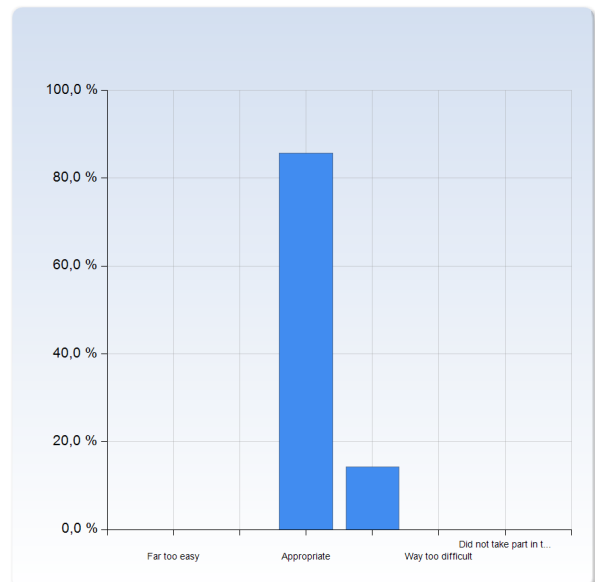
Lectures	Number of Responses
Far too easy	0 (0,0%)
	3 (21,4%)
Appropriate	8 (57,1%)
	3 (21,4%)
Way too difficult	0 (0,0%)
Did not take part in this module	0 (0,0%)
Total	14 (100,0%)



Lectures	Mean	Standard Deviation
	3,0	0,7

Litterature

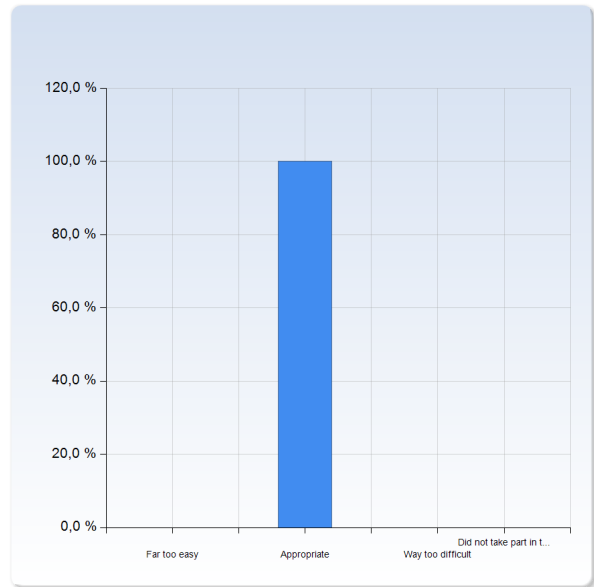
Litterature	Number of Responses
Far too easy	0 (0,0%)
	0 (0,0%)
Appropriate	12 (85,7%)
	2 (14,3%)
Way too difficult	0 (0,0%)
Did not take part in this module	0 (0,0%)
Total	14 (100,0%)



Litterature	Mean	Standard Deviation
	3,1	0,4

Problem solving exercises

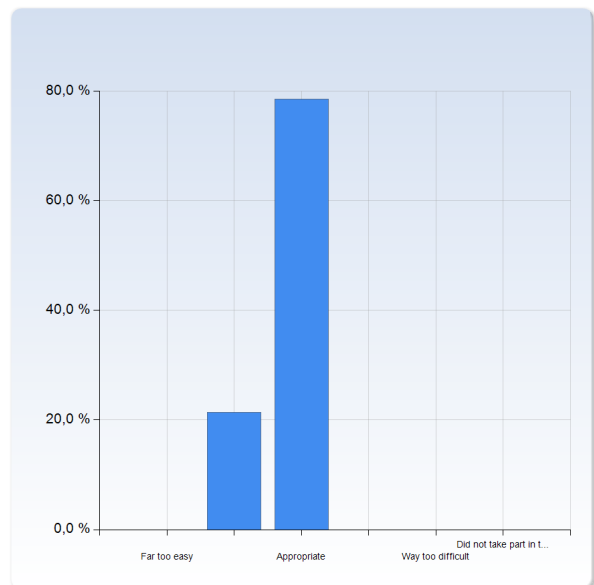
Problem solving exercises	Number of Responses
Far too easy	0 (0,0%)
Appropriate	14 (100,0%)
Way too difficult	0 (0,0%)
Did not take part in this module	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
Problem solving exercises	3,0	0,0

Hand-in exercises

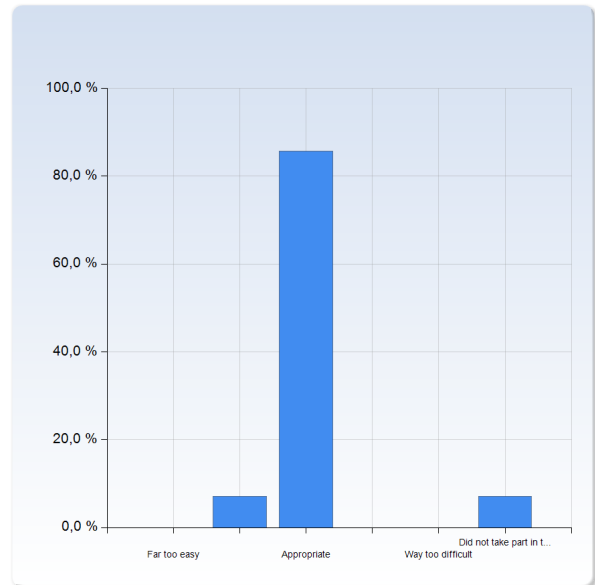
Hand-in exercises	Number of Responses
Far too easy	0 (0,0%)
Appropriate	11 (78,6%)
Way too difficult	0 (0,0%)
Did not take part in this module	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
Hand-in exercises	2,8	0,4

the SI sessions

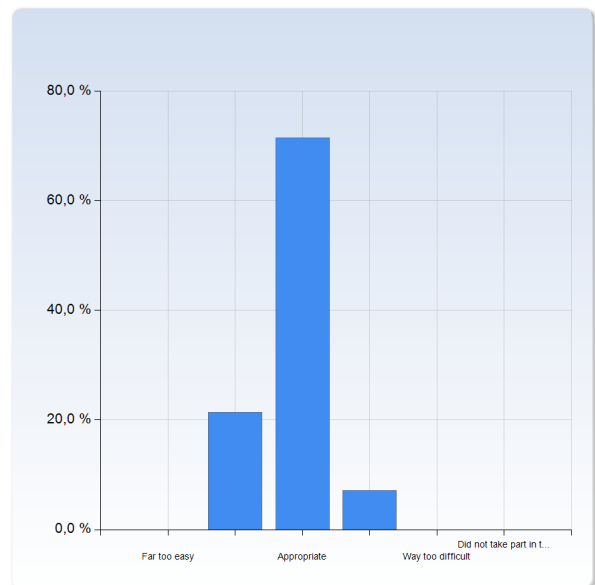
the SI sessions	Number of Responses
Far too easy	0 (0,0%)
	1 (7,1%)
Appropriate	12 (85,7%)
	0 (0,0%)
Way too difficult	0 (0,0%)
Did not take part in this module	1 (7,1%)
Total	14 (100,0%)



the SI sessions	Mean	Standard Deviation
	3,1	0,9

Laboratory exercise "normal modes"

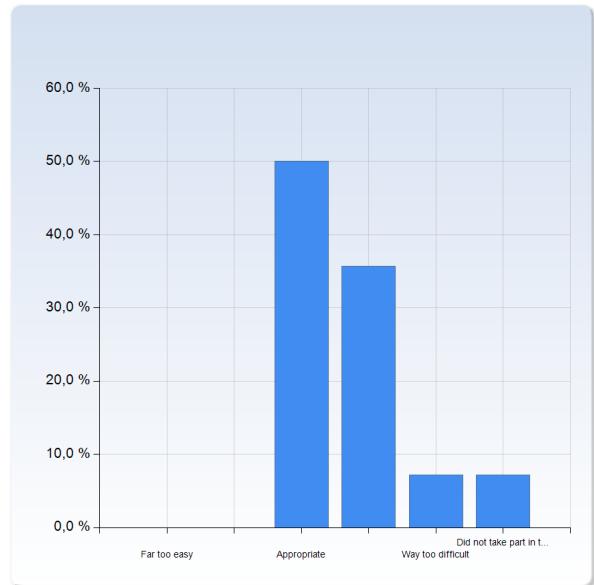
Laboratory exercise "normal modes"	Number of Responses
Far too easy	0 (0,0%)
	3 (21,4%)
Appropriate	10 (71,4%)
	1 (7,1%)
Way too difficult	0 (0,0%)
Did not take part in this module	0 (0,0%)
Total	14 (100,0%)



Laboratory exercise "normal modes"	Mean	Standard Deviation
	2,9	0,5

Written exam

Written exam	Number of Responses
Far too easy	0 (0,0%)
Appropriate	7 (50,0%)
Way too difficult	1 (7,1%)
Did not take part in this module	1 (7,1%)
Total	14 (100,0%)



	Mean	Standard Deviation
Written exam	3,7	0,9

Comments

Normal modes exercise was easy but tedious.

Literature was a little inconsistent but everything else was about appropriate.

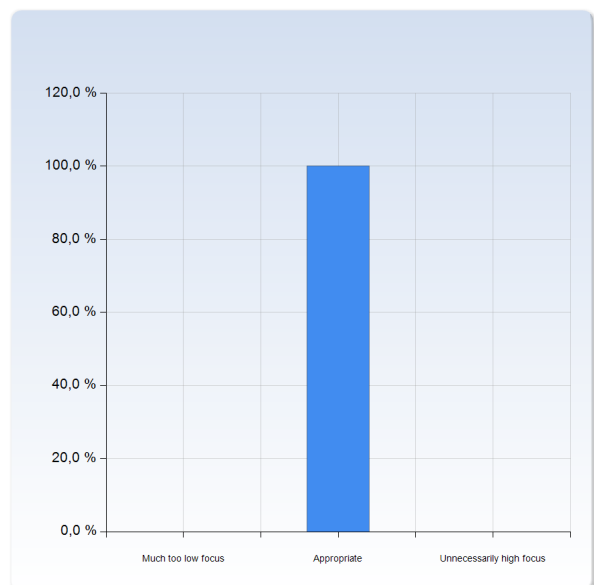
The focus of the course.

Below are learning goals from the course plan. Mark how much focus these goals got during the course, compared to what you feel would be needed.

"The student..."

is familiar with the use of generalised coordinates for a given mechanical system and how the the Lagrange equations follow from the principle of least action

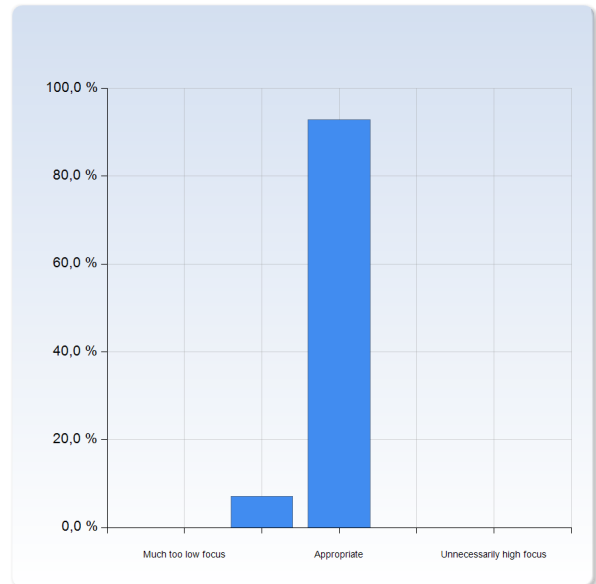
is familiar with the use of generalised coordinates for a given mechanical system and how the the Lagrange equations follow from the principle of least action	Number of Responses
Much too low focus	0 (0,0%)
Appropriate	14 (100,0%)
Unnecessarily high focus	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
is familiar with the use of generalised coordinates for a given mechanical system and how the the Lagrange equations follow from the principle of least action	3,0	0,0

understands how conservations laws arise from different symmetries

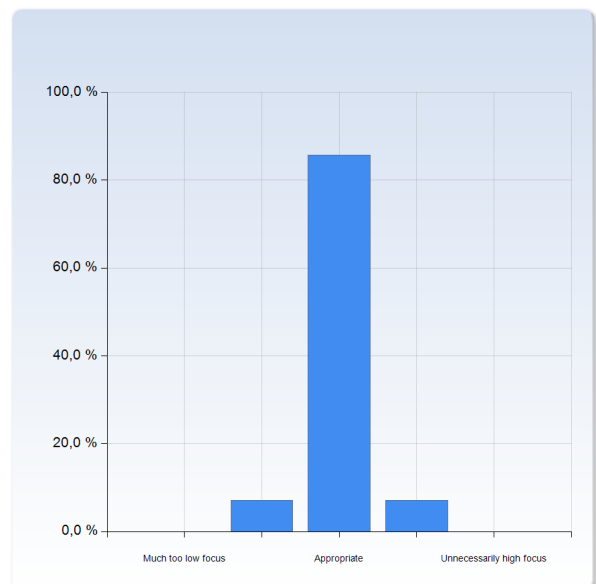
understands how conservations laws arise from different symmetries	Number of Responses
Much too low focus	0 (0,0%)
	1 (7,1%)
Appropriate	13 (92,9%)
	0 (0,0%)
Unnecessarily high focus	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
understands how conservations laws arise from different symmetries	2,9	0,3

can choose suitable generalized coordinates for a given mechanical system and use these to describe the time evolution of the system

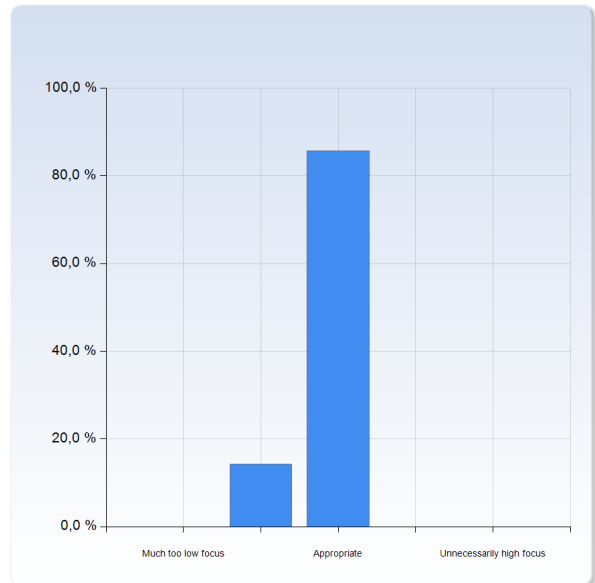
can choose suitable generalized coordinates for a given mechanical system and use these to describe the time evolution of the system	Number of Responses
Much too low focus	0 (0,0%)
	1 (7,1%)
Appropriate	12 (85,7%)
	1 (7,1%)
Unnecessarily high focus	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
can choose suitable generalized coordinates for a given mechanical system and use these to describe the time evolution of the system	3,0	0,4

can find stationary solutions and analyse the normal modes for small oscillations around these

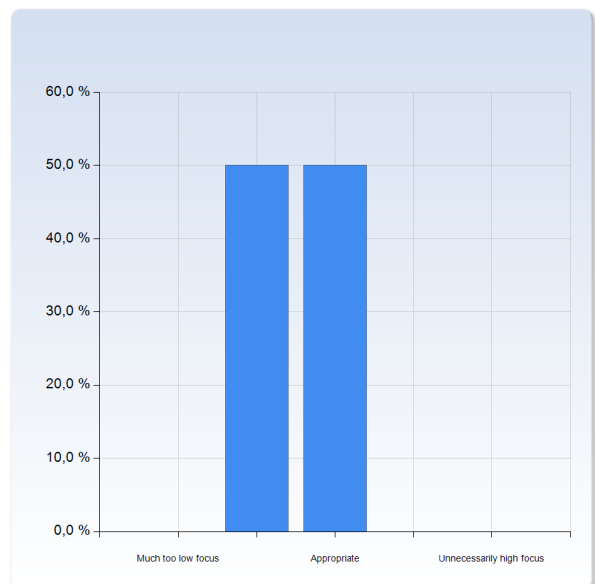
can find stationary solutions and analyse the normal modes for small oscillations around these	Number of Responses
Much too low focus	0 (0,0%)
Appropriate	2 (14,3%)
Unnecessarily high focus	12 (85,7%)
Total	14 (100,0%)



	Mean	Standard Deviation
can find stationary solutions and analyse the normal modes for small oscillations around these	2,9	0,4

is familiar with common four-vectors and other tensors

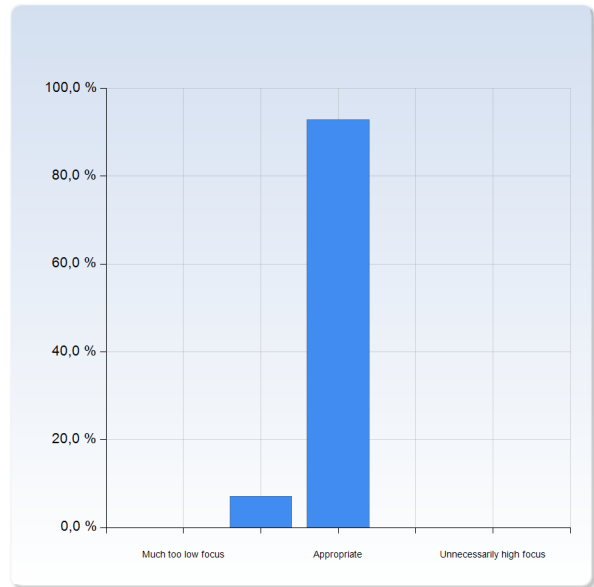
is familiar with common four-vectors and other tensors	Number of Responses
Much too low focus	0 (0,0%)
Appropriate	7 (50,0%)
Unnecessarily high focus	7 (50,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
is familiar with common four-vectors and other tensors	2,5	0,5

is able to apply Lorentz transformations between two different systems in Minkowski space

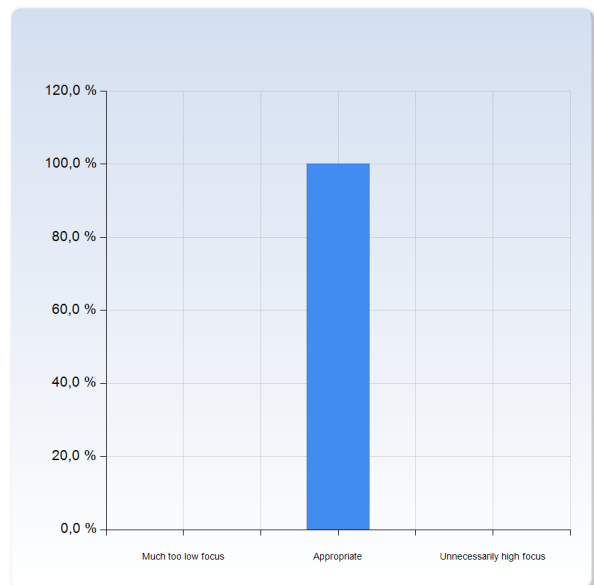
is able to apply Lorentz transformations between two different systems in Minkowski space	Number of Responses
Much too low focus	0 (0,0%)
Appropriate	13 (92,9%)
Unnecessarily high focus	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
is able to apply Lorentz transformations between two different systems in Minkowski space	2,9	0,3

can use simple relativistic kinematics to analyse simple particle reactions

can use simple relativistic kinematics to analyse simple particle reactions	Number of Responses
Much too low focus	0 (0,0%)
Appropriate	14 (100,0%)
Unnecessarily high focus	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
can use simple relativistic kinematics to analyse simple particle reactions	3,0	0,0

Comments

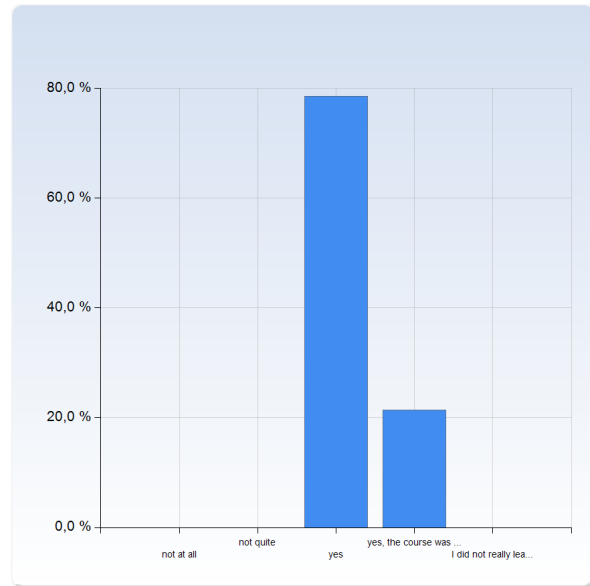
Things didn't get truly interesting until four-vectors arrived.

I think only the lab covered normal modes to a sufficient extent and the generalized coordinates were given a massive emphasis that seemed almost belonging to a notations course. Although it was informative

Maybe a little more on the properties on four vectors would help me grasp them better.

Did you have enough prior knowledge for this course?

Did you have enough prior knowledge for this course?	Number of Responses
not at all	0 (0,0%)
not quite	0 (0,0%)
yes	11 (78,6%)
yes, the course was a bit easy	3 (21,4%)
I did not really learn anything new	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
Did you have enough prior knowledge for this course?	3,2	0,4

If your prior knowledge was not fairly appropriate, please comment!

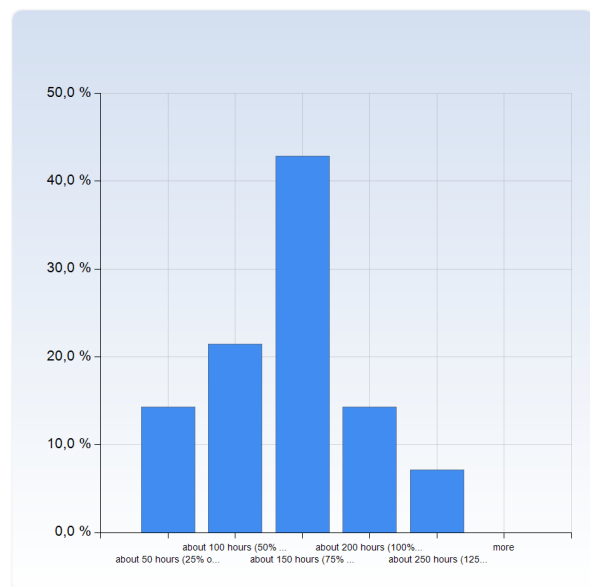
What prior knowledge was missing/overlapping?

What is your background (year of higher education, relevant courses)?

Especially the part where FYSA01-relativity was covered again.

How much time have you spent on the course? (In total you are supposed to spend about 200 hours or 25 work-days on a 7.5 hp course)

How much time have you spent on the course? (In total you are supposed to spend about 200 hours or 25 work-days on a 7.5 hp course)	Number of Responses
about 50 hours (25% of intended time)	2 (14,3%)
about 100 hours (50% of intended time)	3 (21,4%)
about 150 hours (75% of intended time)	6 (42,9%)
about 200 hours (100% of intended time)	2 (14,3%)
about 250 hours (125% of intended time)	1 (7,1%)
more	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
How much time have you spent on the course? (In total you are supposed to spend about 200 hours or 25 work-days on a 7.5 hp course)	2,8	1,1

Comments (for example on the distribution of the workload and whether you feel you have been able to perform at the level you wanted to)

Due to the easiness of the course, I may have sacrificed some of its time to spend on other things.

I feel as if a lot of time of this course was practicing problems and working on the lab as opposed to reading. Once I understood the concepts I felt as if the best part to fully grasp the material was through exercises.

That's why the exam did go as it went.

Gender equality and equal opportunities

According to the Lund University *Policy for gender equality, equal treatment and diversity*, there is "zero tolerance of discrimination" and everyone has the right to be "treated with respect and consideration and being given the opportunity to develop on the basis of his or her personal circumstances".

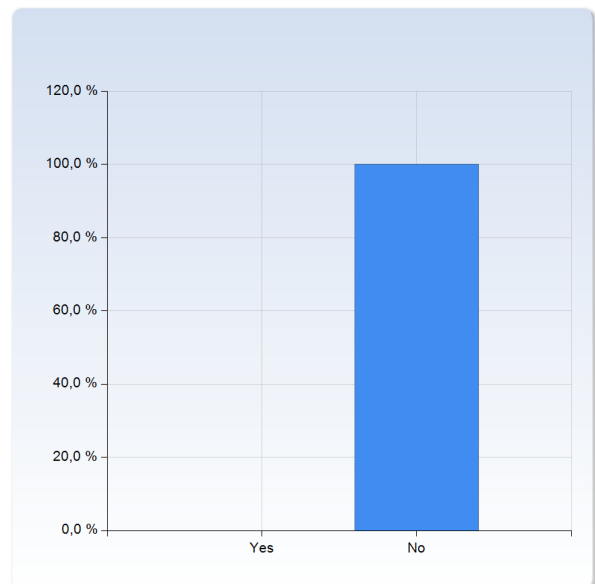
Have you become aware of any cases of discriminating behaviour or someone being treated disrespectfully during the course?

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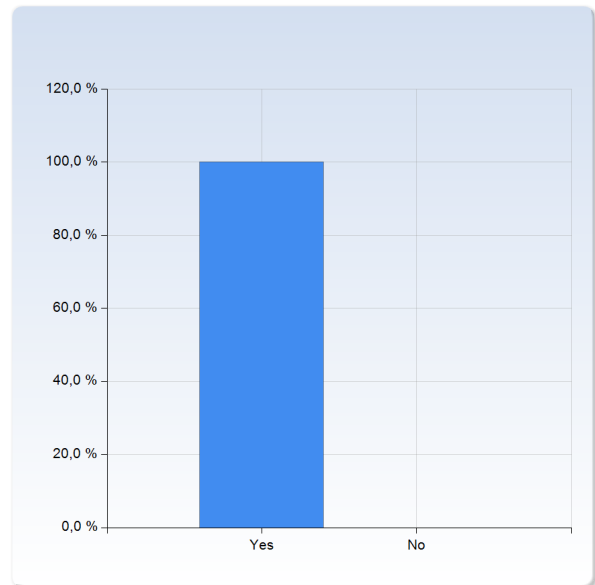
	Number of Responses
Yes	0 (0,0%)
No	14 (100,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
Gender equality and equal opportunities		
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Have you become aware of any cases of discriminating behaviour or someone being treated disrespectfully during the course?	2,0	0,0

Do you think that everyone has had the same opportunity to benefit from the course?

Do you think that everyone has had the same opportunity to benefit from the course?	Number of Responses
Yes	14 (100,0%)
No	0 (0,0%)
Total	14 (100,0%)



	Mean	Standard Deviation
Do you think that everyone has had the same opportunity to benefit from the course?	1,0	0,0

What did you particularly like with the course?

What did you particularly like with the course?
Special relativity part was interesting and went beyond what I previously knew about special relativity.
That it had focus on both special relativity and classical mechanics. They are connected and it's nice to have them together.
Four-vectors and tensors. Nuff said.
I like the rigor and balance between lecture and exercise that really let the student be in charge of how much they would want to learn.
The hexercises and SI-meetings were really good!
Good structure
The Lagrangian mechanics! It such a nice tool to have. It is also good to have seen 4-vectors even if we didn't use it enough to become comfortable with it.
I took the course, to get to the general relativity course later on.

What in the course do you think could improve?

What in the course do you think could improve?
More examples during lecture focusing on interesting applications of mechanics.
The laboratory exercise and more focus on Einstein notation.
Not really applicable for a course facing imminent discontinuation.
I think the course was overall fairly run and perhaps a better literature book might be used
I should not write during lectures, it's a waste of time writing down stuff that are published in exact detail on the web page, while not having time to fully get the concepts during lectures because of fast writing.
Split into two different courses
How to handle 4-vectors
Course is well organized.