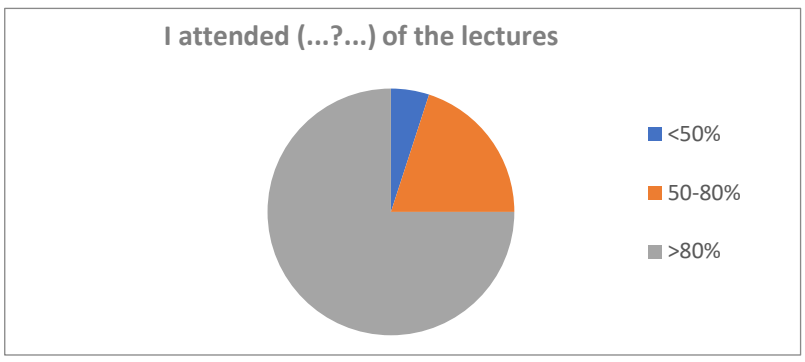
Survey Summary

PX262 Term 2 Feedback 2022	
No. of Participants	60
Total no. of students	226
Survey Started	14 Mar 2022 18:50:39 GMT
Survey Ended	

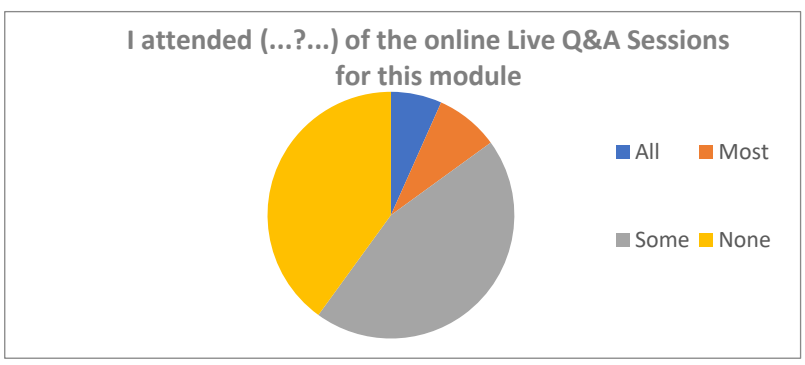
I attended (...?...) of the lectures

Description	Responses	%
<50%	3	5.00
50-80%	12	20.00
>80%	45	75.00
Total	60	



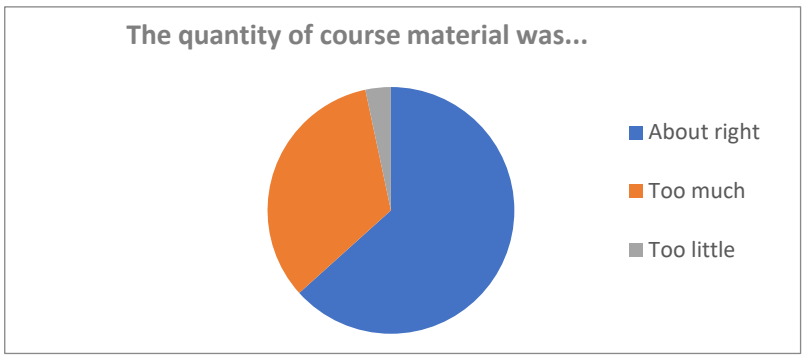
I attended (...?...) of the online Live Q&A Sessions for this module

Description	Responses	%
All	4	6.67
Most	5	8.33
Some	27	45.00
None	24	40.00
Total	60	



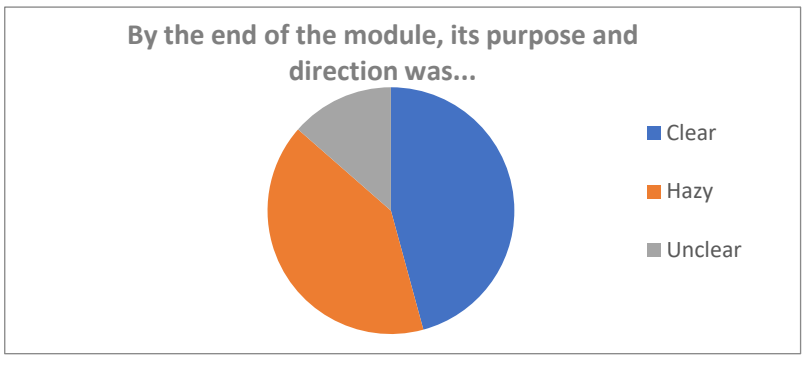
The quantity of course material was...

Description	Responses	%
About right	38	63.33
Too much	20	33.33
Too little	2	3.33
Total	60	



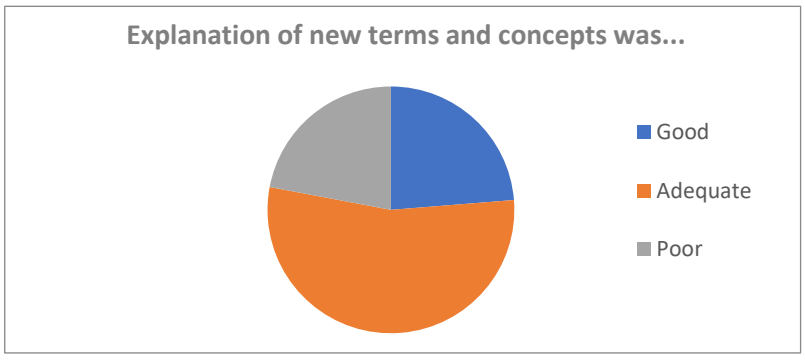
By the end of the module, its purpose and direction was...

Description	Responses	%
Clear	27	45.76
Hazy	24	40.68
Unclear	8	13.56
Total	59	



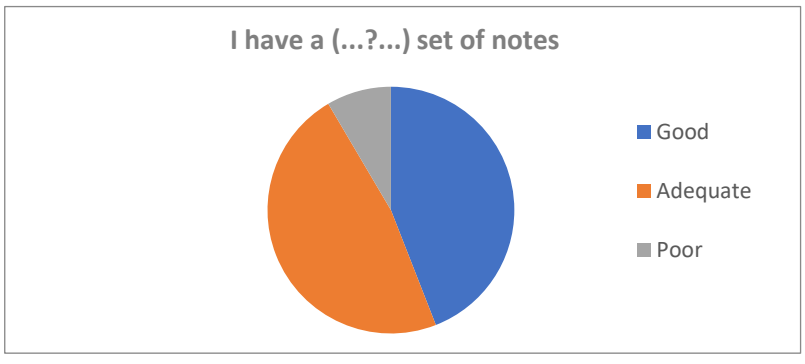
Explanation of new terms and concepts was...

Description	Responses	%
Good	14	23.73
Adequate	32	54.24
Poor	13	22.03
Total	59	



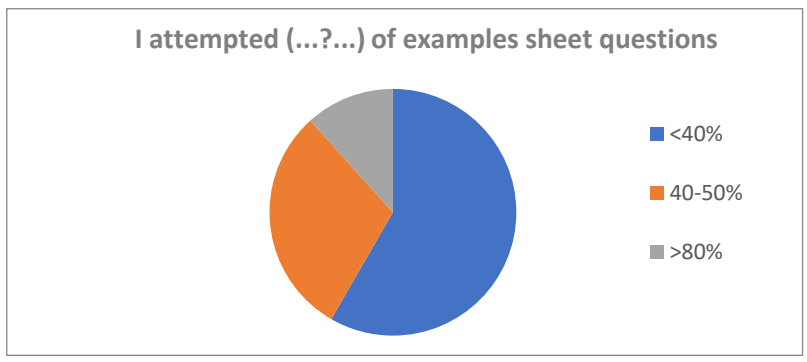
I have a (...?...) set of notes

Description	Responses	%
Good	26	44.07
Adequate	28	47.46
Poor	5	8.47
Total	59	



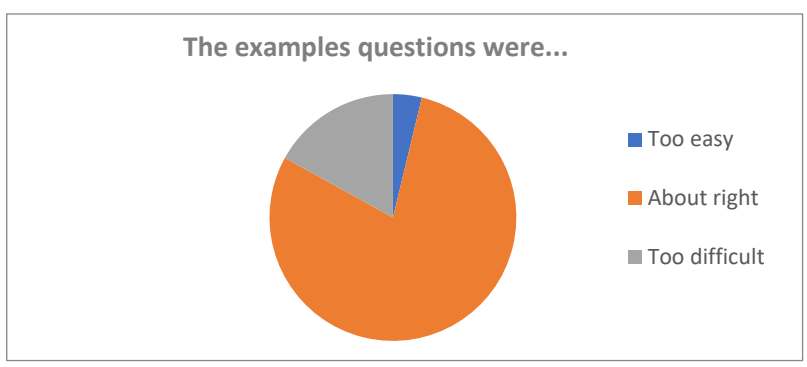
I attempted (...?...) of examples sheet questions

Description	Responses		%
<40%		35	58.33
40-50%		18	30.00
>80%		7	11.67
Total		60	



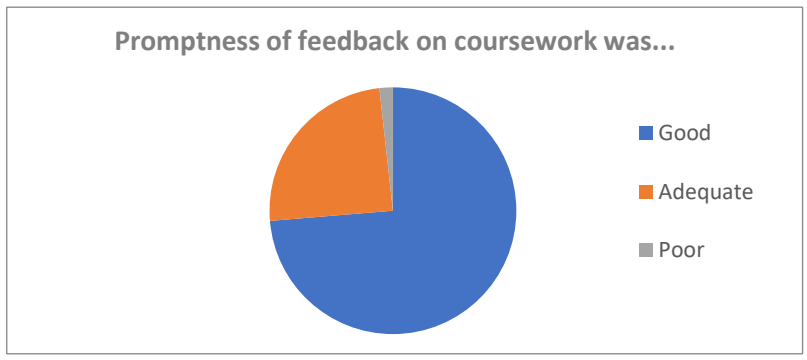
The examples questions were...

Description	Responses		%
Too easy		2	3.77
About right		42	79.25
Too difficult		9	16.98
Total		53	



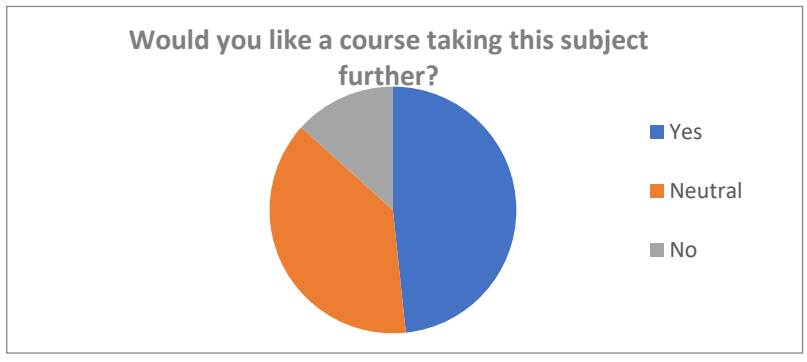
Promptness of feedback on coursework was...

Description	Responses		%
Good		42	73.68
Adequate		14	24.56
Poor		1	1.75
Total		57	



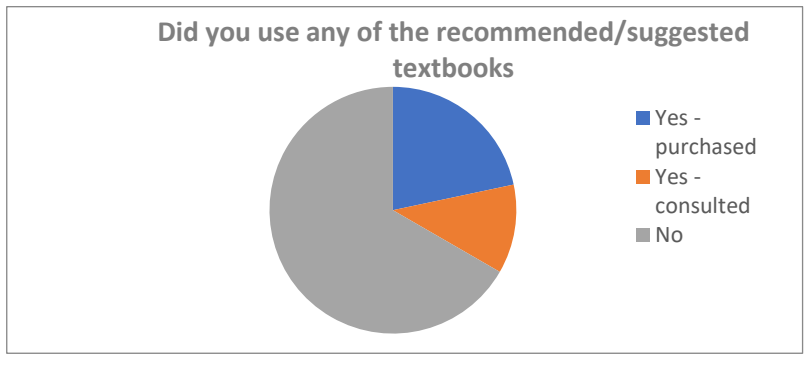
Would you like a course taking this subject further?

Description	Responses		%
Yes		29	48.33
Neutral		23	38.33
No		8	13.33
Total		60	



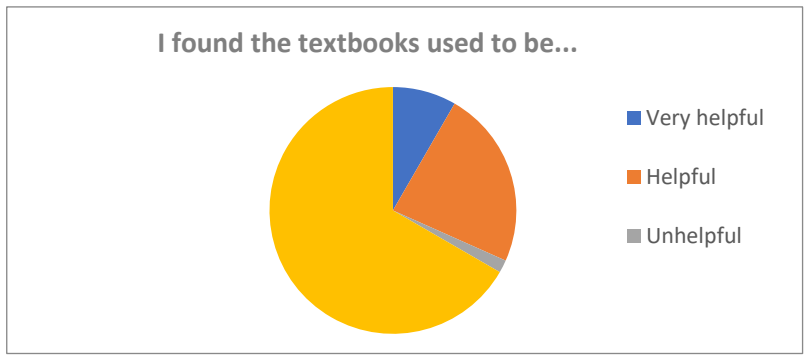
Did you use any of the recommended/suggested textbooks

Description	Responses		%
Yes - purchased		13	21.67
Yes - consulted		7	11.67
No		40	66.67
Total		60	



I found the textbooks used to be...

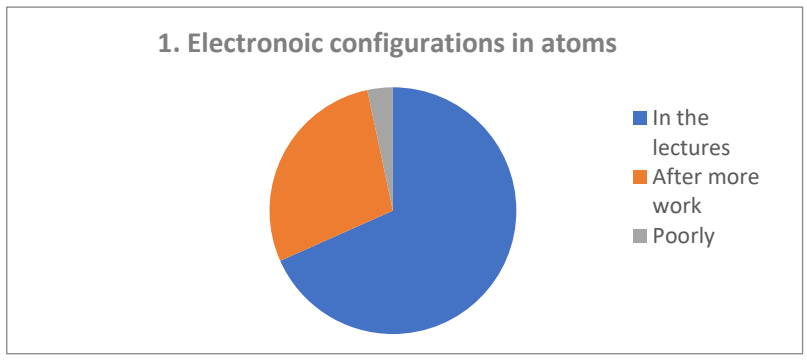
Description	Responses		%
Very helpful		5	8.33
Helpful		14	23.33
Unhelpful		1	1.67
I did not use a textbook		40	66.67
Total		60	



I understood the following main topics...

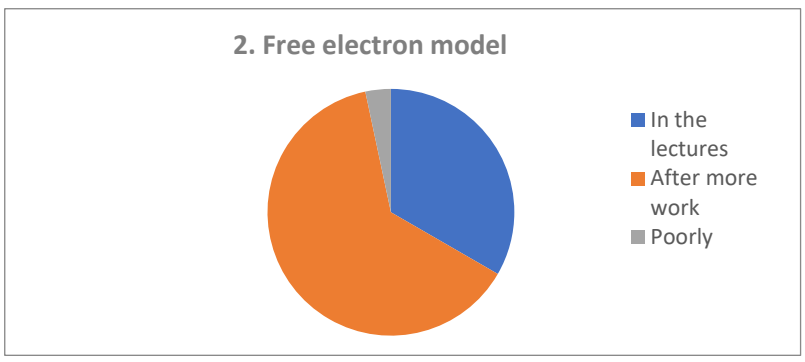
1. Electronoic configurations in atoms

Description	Responses		%
In the lectures		41	68.33
After more work		17	28.33
Poorly		2	3.33
Total		60	



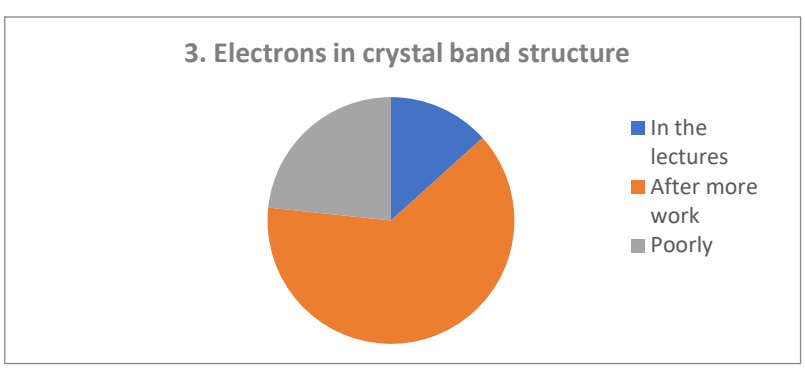
2. Free electron model

Description	Responses		%
In the lectures		20	33.33
After more work		38	63.33
Poorly		2	3.33
Total		60	



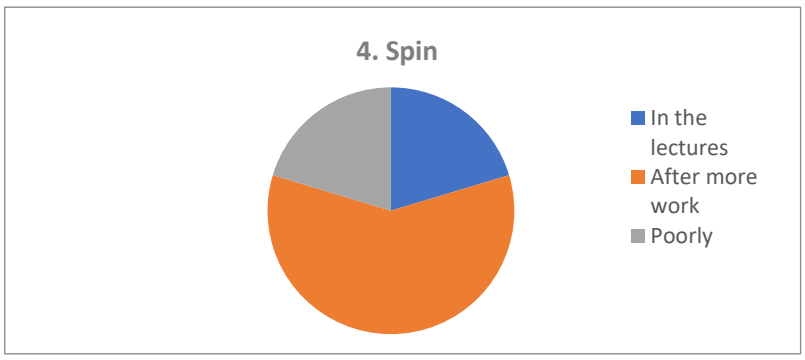
3. Electrons in crystal band structure

Description	Responses		%
In the lectures		8	13.33
After more work		38	63.33
Poorly		14	23.33
Total		60	



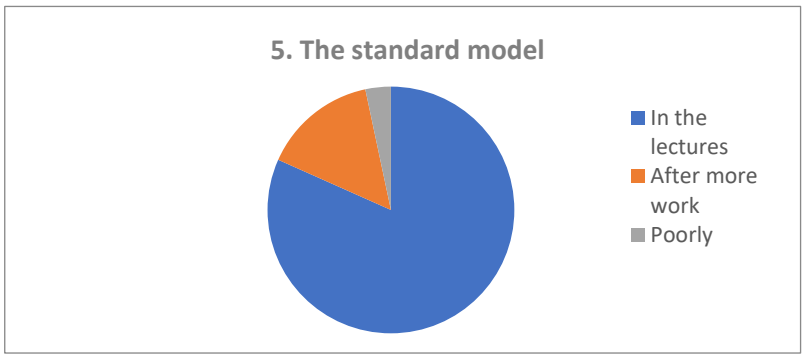
4. Spin

Description	Responses		%
In the lectures		12	20.34
After more work		35	59.32
Poorly		12	20.34
Total		59	



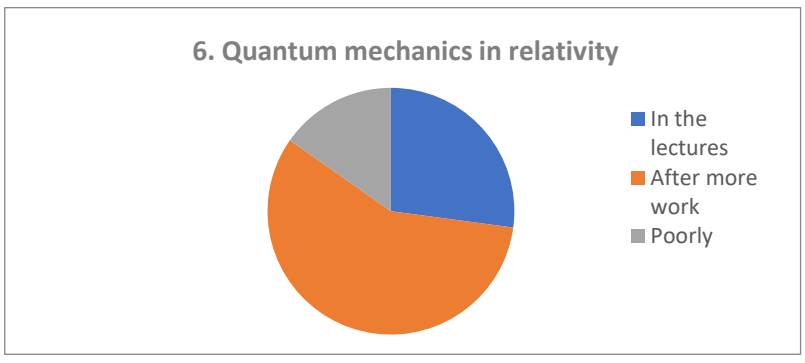
5. The standard model

Description	Responses		%
In the lectures		49	81.67
After more work		9	15.00
Poorly		2	3.33
Total		60	



6. Quantum mechanics in relativity

Description	Responses		%
In the lectures		16	27.12
After more work		34	57.63
Poorly		9	15.25
Total		59	



The best features of this module were:

Participants: 15

Comments:

Starting the module with a recap of term 1 content and first year content was great. Notes were nice and concise. Pace was good. I really enjoyed the module.
I liked the online quizzes
Some overlap with PX265 Thermal Physics
Showing clearly the different applications of QM in different areas of physics
The standard model section of the course was enjoyable, yet slow since it covered a level and 1st year particle physics content.
The recap at the start of each lecture
learning about the formalism of quantum mechanics
The chemistry bit
Summary notes
Quick feedback on testsDetailed hand written notes
QM and relativity
Electronic configuration and lattices was well explained. Standard Model was interesting
It teaches interesting material.
The nuclear bit

Any particular aspects/items needing improvement (and suggestions how):

Participants: 21

Comments:

I felt at times the content came a bit too fast with not enough explanation. Especially with the harder content of the course. Resulting in me

needing to do more work in order to understand what was going on. At times it felt like my brain had gone through a tumble dryer! But that is probably just quantum mechanics
Typed notes didn't seem to add enough detailed explanation - I guess having a laptop to go further research on new concept helped make this e not that significant but still
I would have liked a full typed set of lecture notes
Hard to follow lectures as no sense of direction when deriving formulae
Understanding what we're trying to do. Sometimes found it difficult to understand what we're working towards which made things harder to follow.
Lecture wasn't very engaging
Still not sure on how to find regions that solutions exist for electronic bands. problem sheet does not help as it only names the values but does not tell how to get them. Need more examples in the earlier lectures so it is clear what can be asked.
The summary notes on moodle could have been clearer. The explanations and derivations of new concepts were difficult to follow
This course has felt like more of a recap than trying to learn new concepts. A lot of the time it was assumed you'd make the connections between equations instead of explaining how they were linked. This course just needs more depth
The explanations for various models of matter and atoms felt a bit 'hand-wavey' (though I do understand a more quantative approach requires maths above our level)
There could be more example questions done in lectures rather than just in example sheets. There could also be handouts/full typed lecture notes in addition to notes written in lectures.
Needs a lot more examples in the lecture itself
More worked examples in the lectures
Hand written notes should be uploaded alone from lectures
Too condense information in some topics
Less content and going through the content at a slower pace with more details.
More explanation around spin matrices, and expectation values. Still don't really understand how doping within semiconductors works.
Use of terminology should be made more clear and include reminders.
I wish the two terms flowed together better. But both terms individually seemed like each week was completely unrelated and almost appeared to be unplanned
Poor explanations behind some of the content, same for term 1. No examples, poor understanding behind some things. For example, lecturers will say 'we want to model an electron in an atom'... 'so this equation works'. Why? How? where does that even begin to come into play. 'These spin matrices exist' okay... why? where do they come from what do they do? now we are dealing with matrices? a little bit of a link maybe before throwing them in. 'we can model this as a Fourier series because it might be periodic' so where does the actual equation that you right down come from? where does the psi that you right down after it come from? you cant just say we can model it and write down line and lines of equations with nothing else explained. Where is the understanding behind this. The live sessions need maybe more examples and explanations not a recap of lectures. Unfortunately not a great module where I had hoped it would be well explained and interesting. It looks like the lecturers mainly care that you remember things for an exam and sometimes compromise on your interest in a potentially very interesting subject with good, clear explanations and direction. The lecturers still seem very good people and they are willing to help, but sometimes the explanations are lacking. Same with majority of physics modules at warwick. Little interest, just need to remember stuff for an exam. University has made me lose my enjoyment in physics a little bit rather than fueling it. The math's department, from my understanding, is very different and I wish I chose that or went somewhere else. They take the time to get deep understandings and the basics down first. Its become more of a chore than enjoying and engaging concepts and research that I want to learn more about. A-levels was a lot better for that and I learnt a lot more, while enjoying it.

Any other comments:

Participants: 6

Comments:

My fav module!
Fairly uninspiring lectures
Would be nice to have better consistency of notation with the thermal physics module (eg they use different symbols for density of states)
Potentially split into 2 separate modules?
New concepts ar explained in a very handwavy way which are correct and make sense to someone who already understands them, but not in the slightest to anyone new to it. This poor explanation was repeated throughout the module. I hate leaving bad feedback but this module is very important and I don't think it was taught properly. Let's see how the exam goes.

MODULE CODE PX262 **YEAR** 2

Please ensure that you hand this form back to the lecturer at the end of the lecture or bring the form back to the Student Office, Room P522 (within 2 working days). Thank you.

Thank you for filling in the online survey. If you was not able to complete the survey during today's lecture please visit the module's moodle page where you will find a link to the survey. The survey will stay open for a further week after the module ends.

We would appreciate your further written comments below.

The best features of this module were:

Arriving at final results used to explain matter's behaviour at the quantum level

Any particular aspects/items needing improvement (and suggestions how):

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Any other comments:

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MODULE CODE PX262 **YEAR** 2021-2022.

Please ensure that you hand this form back to the lecturer at the end of the lecture or bring the form back to the Student Office, Room P522 (within 2 working days). Thank you.

Thank you for filling in the online survey. If you was not able to complete the survey during today's lecture please visit the module's moodle page where you will find a link to the survey. The survey will stay open for a further week after the module ends.

We would appreciate your further written comments below.

The best features of this module were:

- Professor's clear explanation of some complex concepts
- Professor is ~~obviously~~ often patient to answer ~~qu~~ my questions.

Any particular aspects/items needing improvement (and suggestions how):

Everything is nice!

Any other comments: