





Responses: 34






PX382 Module Feedback Questionnaire

Thank you for submitting your feedback on this module - the results will be collated and the information viewed by the module leader and the Education Committee and can help to improve the experience of students taking this module in future.




1 I watched or read through the notes of (...?...) of the online lecture material

Response	Average	Total
>80%	 91%	31
50-80%	 6%	2
<50%	 3%	1
Total responses to question	 100%	34/34




2 I attended (...?...) of the Live events for this module

Response	Average	Total
All	 18%	6
Most	 18%	6
Some	 50%	17
None	 15%	5
Total responses to question	 100%	34/34

3 The quantity of material was...

Response	Average	Total
About right	 64%	21
Too great	 36%	12
Total responses to question	 97%	33/34




4 By the end of the module its purpose and direction were...

Response	Average	Total
Clear	 68%	23
Hazy	 29%	10
Unclear	 3%	1

[At](#)

5




Response	Average	Total
Total responses to question	 100%	34/34
Explanation of new terms and concepts was...		

Response	Average	Total
Good	 38%	13
Adequate	 47%	16
Poor	 15%	5

Total responses to question	 100%	34/34
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I have a (...?...) set of notes

Response	Average	Total
Good	 42%	13
Adequate	 55%	17
Poor	 3%	1

Total responses to question	 91%	31/34
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7



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

Response	Average	Total
<40%	 36%	12
40-50%	 18%	6
>80%	 45%	15

Total responses to question	 97%	33/34
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8





The examples sheet questions were...

Response	Average	Total
About Right	 63%	17
Too Hard	 37%	10





Total responses to question	 79%	27/34
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9





Promptness of feedback on submitted coursework was...

Response	Average	Total
Good	 14%	4
Adequate	 29%	8
Poor	 57%	16
Total responses to question	 82%	28/34






10 Would you like a course taking this subject further ?

Response	Average	Total
Yes	 55%	18
Neutral	 24%	8
No	 21%	7
Total responses to question	 97%	33/34

11 Did you use any of the recommended/suggested textbooks?





Response	Average	Total
Yes - purchased	 6%	2
Yes - consulted	 26%	9
No	 68%	23
Total responses to question	 100%	34/34

12 I found the textbook(s) used to be...





Response	Average	Total
Very Helpful	 3%	1
Helpful	 23%	7
Unhelpful	 10%	3
I did not use a textbook	 65%	20
Total responses to question	 91%	31/34

I understood the following main topics





13 Operators and angular momentum

Response	Average	Total
First time through online lectures or notes	 50%	16
After more work	 47%	15
Poorly	 3%	1
Total responses to question	 94%	32/34





14 Theory of approximate methods

Response	Average	Total
First time through online lectures or notes	 50%	16
After more work	 47%	15
Poorly	 3%	1
Total responses to question	 94%	32/34



15 Calculations using approximate methods



Response	Average	Total
First time through online lectures or notes	 38%	12
After more work	 56%	18
Poorly	 6%	2
Total responses to question	 94%	32/34

16 Spin-orbit coupling and the Zeeman effect

Response	Average	Total
First time through online lectures or notes	 29%	9
After more work	 68%	21
Poorly	 3%	1
Total responses to question	 91%	31/34

17 Identical particles, periodic table and many electron effects

Response	Average	Total
First time through online lectures or notes	 38%	12
After more work	 53%	17

Response	Average	Total
Poorly	 9%	3
Total responses to question	 94%	32/34

18 The best features of this module were:

Respondent	Response
	The maths in lectures was explained very clearly which made it easy to follow.
	The the thoroughness of the lectures. I felt that each concept and all the notation was explained clearly.
	Some interesting topics. Enjoyed the content on lasers especially.
	The problem sheets were good practice. There were plenty of worked examples which helped with understanding.
	The lecturer was very clear and helpful
	The content was managable and interesting.
	calculations using approximate methods. Gives me a glimpse of how real computations would be performed in theoretical research
	Tthe last section
	None
	Very interesting concept
	The abundance of resources Lees provides for questions to practice.
	The content is interesting
Total responses to question	12/34

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

Respondent	Response
	Quizzes are awful, please switch back to assessed problem sheets we can work on at any time instead of having to essentially do a mock everyweek under a deadline and then get no feedback on them. Give us some sort of personalised feedback either by actually marking our problem sheets or through support classes/seminars
	Multiplets wasn't conceptually explained very well
	Possibly the powerpoint slides could have been made more concise with less repetition of covered areas
	It would be nice to have the answers to the quizzes after they are finished, as this is what other modules have provided, and I prefer going over questions I've gotten wrong as soon as possible.

Respondent**Response**

Not being able to see where we are going wrong in online tests makes them mostly pointless, other than providing a great sense of impending doom as you watch your marks get lower and lower with no idea where you are going wrong. Answers to problem sheets are frequently unhelpful, as they don't fully explain where they are pulling numbers/equations from. Helpful if you already understood the question, useless to the truly confused. Lectures seem good, you will make your notes and think you understand, and then the questions/application of the theory prove you wrong. (I really struggled so my responses may be biased)

Lecture videos simply reproduce the typed notes in PowerPoint format so there is far more content to write down than in a normal lecture. This leads to having to pause lecture videos continuously to write it down. The delivery of the content is also not particularly engaging as almost all of the audio is simply reading out the lecture notes with little discussion around the content. Using analogies and other ways to better understand the content would be helpful.

Releasing quiz feedback with marks

The module feels like it has considerably more content than the other 7.5 CAT modules I have done this year (e.g. compared to PX384 Electrodynamics). I understand that this all needs to be covered (and all the content is very interesting!) but the amount of content to cover each week was quite a lot so maybe if the module was over a longer period or worth more CATs that would improve that. Also, I found the discussion of the addition of angular momentum quite unclear. I think I will have to look at this a lot myself to understand it. Maybe it would also be helpful to give us a set of notes without the gaps in after the module is finished? They would be easier to search through than looking through all the separate PowerPoint presentations.

There was too much content in week 4 and 5. Also the fill in the box style notes weren't very helpful and I had to make my own notes for future revision.

Reading off lecture slides is a poor method of exposition for such a mathematical module, the lectures added very little as opposed to simply reading the slides ourselves.

In my opinion the material needs to be condensed so that it doesn't take so long to go through. I struggled to keep up with the module as it took me so long to get through the power points each week. I also would have found it helpful if we received feedback (i.e. where we went wrong / answers) on each quiz before the next one came up.

The notes were really good, but the lecture format was not effective at all. Reading off of the screen runs too fast and writing down notes as the lecturer is speaking is impossible. I, similarly to many of my friends, found that it was best to copy down the notes first and then watch the lectures to listen. However, this takes at least twice as long as the intended lecture time. It would be best if the lecturer adopted the style of writing down the notes themselves - this makes the process clearer and more engaging for the students. The best example for this from the first 5 weeks are the Electrodynamics lectures.

Nope

If we are to be given an uncompleted set of notes and fill in the blanks. They should be put straight in pigeon holes, rather than us having to keep doing online questionnaires.

A full-type set of lecture notes. Personally, due to other modules, I did not have time to re-write the lecture notes after watching the lecture videos as I wanted to prioritise the problem sheets

The lecture pace was way too fast, and taking notes took ages. It would take me at least an hour to get through a 25min lecture. I don't know why this module wasn't just spread out over 10 weeks so that the content could be taught at a normal pace and not rushed. The workload compared to other modules was too much and I basically had no time to do problem sheets

The lecturer refused to give any feedback on the assessed quizzes, making it incredibly difficult to identify the gaps in our understanding. Speaking to people that have taken this module in previous years, the reason for this is that the lecturer reuses the exact same quizzes every year, so can't give out the feedback and solutions. This is incredibly lazy and outright disrespectful to students trying their hardest to learn the difficult topics. I'm aware that the SSLC has passed on similar feedback before, and yet the lecturer still refuses to do his job properly and deliver the module to a standard appropriate of a top university.

Respondent	Response
	- Most questions rely on computations (eg integrals) not very interesting - Degenerate perturbation theory needs a better explanation I feel like.
	Feedback for the assignments! If he wishes to reuse the quiz he could at least go through the questions in a live lecture without publishing solutions. This way students have a better chance of understanding where their knowledge is lacking instead of getting simply a grade.
	Not getting any feedback on the online quizzes is extremely annoying and makes it very hard to assess how well you have grasped the concepts in the lectures. The quality of the videos is not amazing and also the fill in the gap notes are annoying to use.

Total responses to question

20/34

20 Any other comments:

Respondent	Response
	It felt like this module was an applied-maths module to quantum-related topics, since we only learned about the uses of mathematical methods, not actually physics.
	Thank you I was very satisfied with this module overall and the quality of the lectures was some of the best so far 😊
	Thank you
	Lecturer was great!
	Would like to know where I went wrong on the quizzes.
	The whole purpose of the module seemed a bit lost It just felt like an appendix to second year quantum
	It would be very nice if they shifted Relativistic Quantum Mechanics to weeks 6-10 so that maths student can take it in third year!!!
Total responses to question	7/34