

# PX382:Quantum Physics of Atoms

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## Module questionnaire 20/21 (PX382)

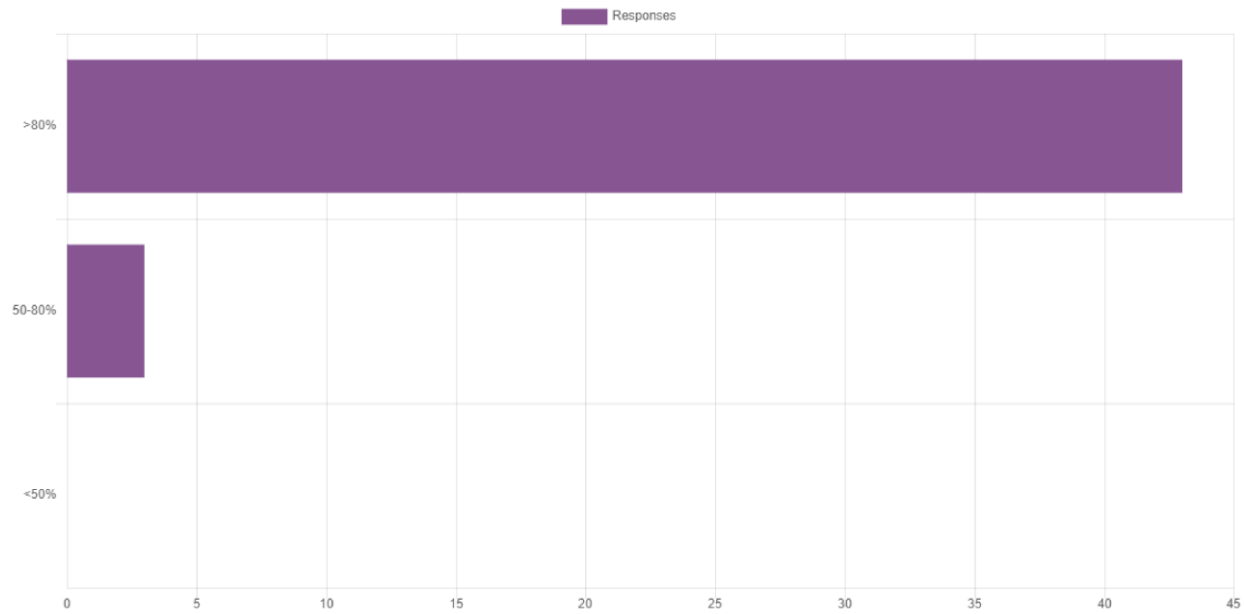
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Submitted answers: 46 185

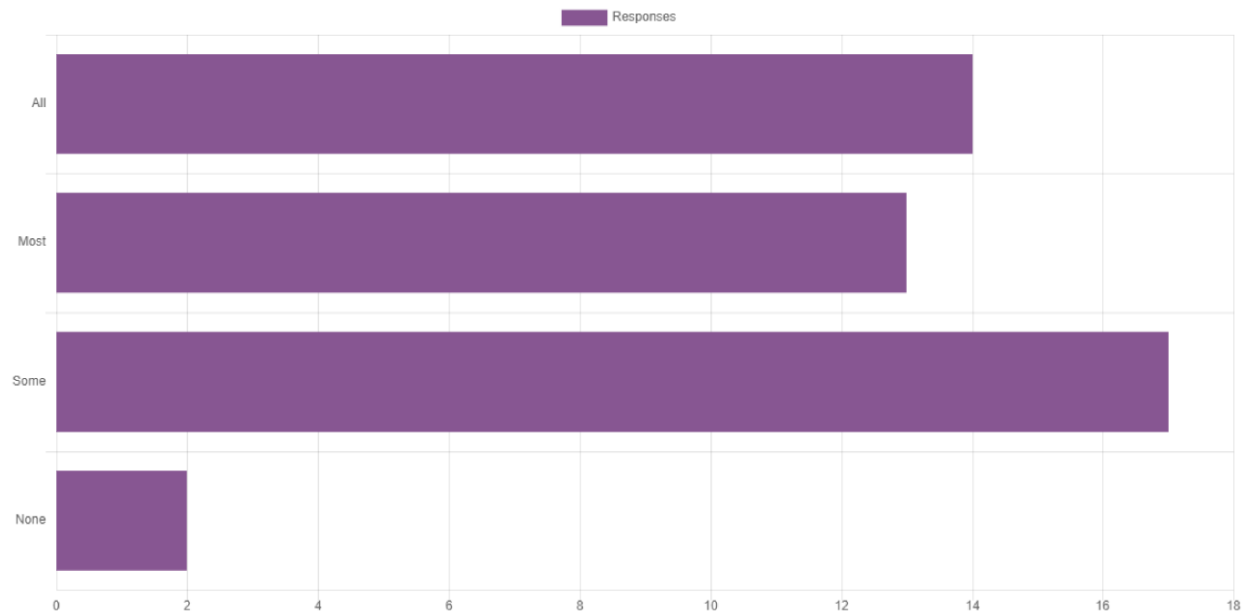
Questions: 20

(Q1) I watched or read through the notes of (...?) of the online lecture material



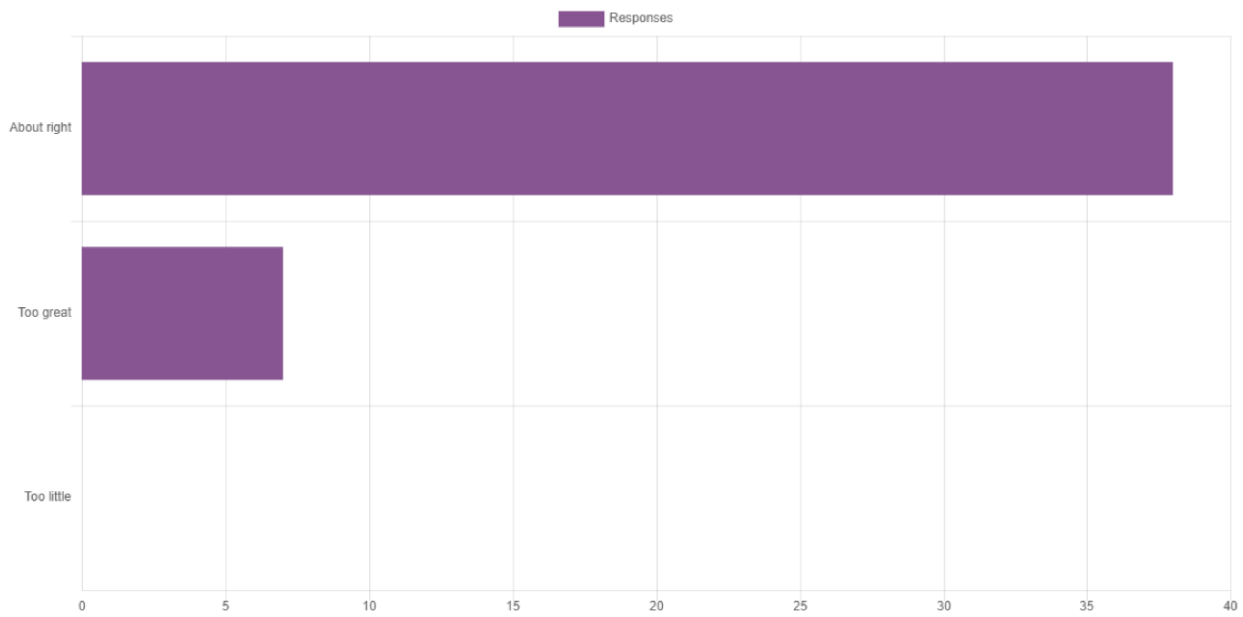
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(Q2) I attended (...?) of the Live events for this module



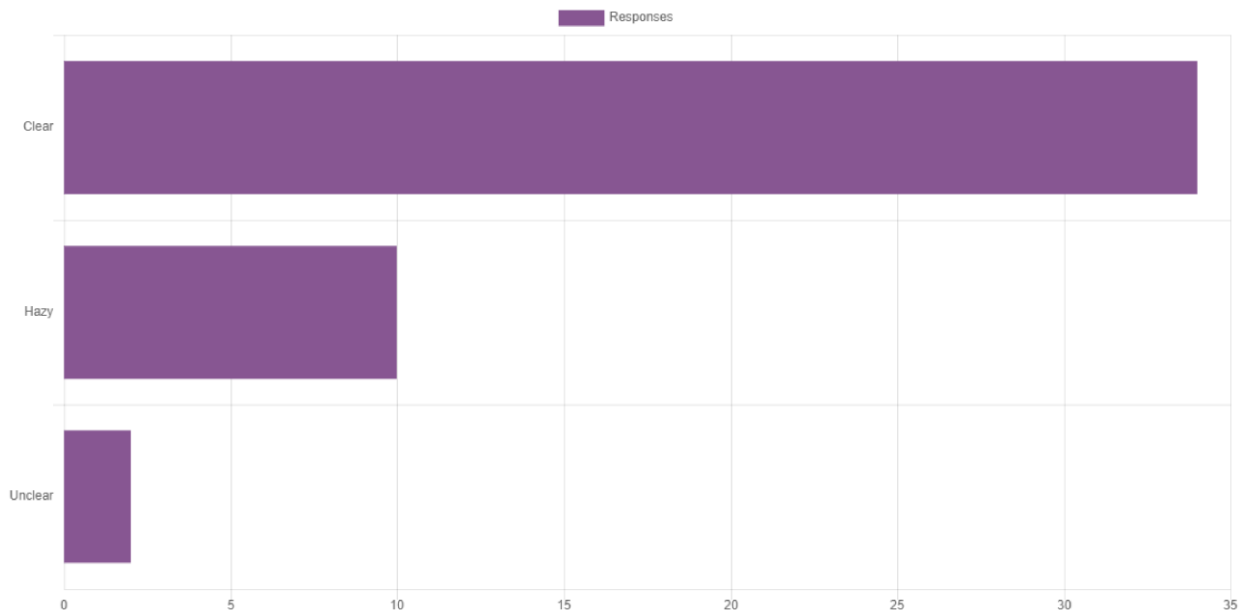
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(Q3) The quantity of material was



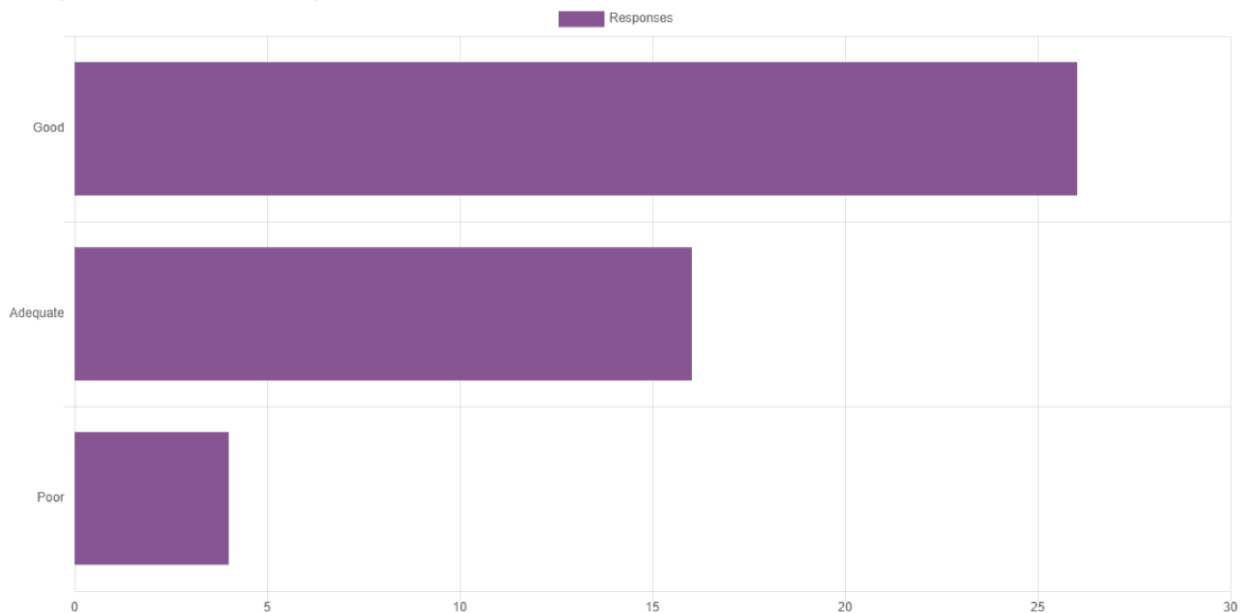
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**(Q4) By the end of the module its purpose and direction were**



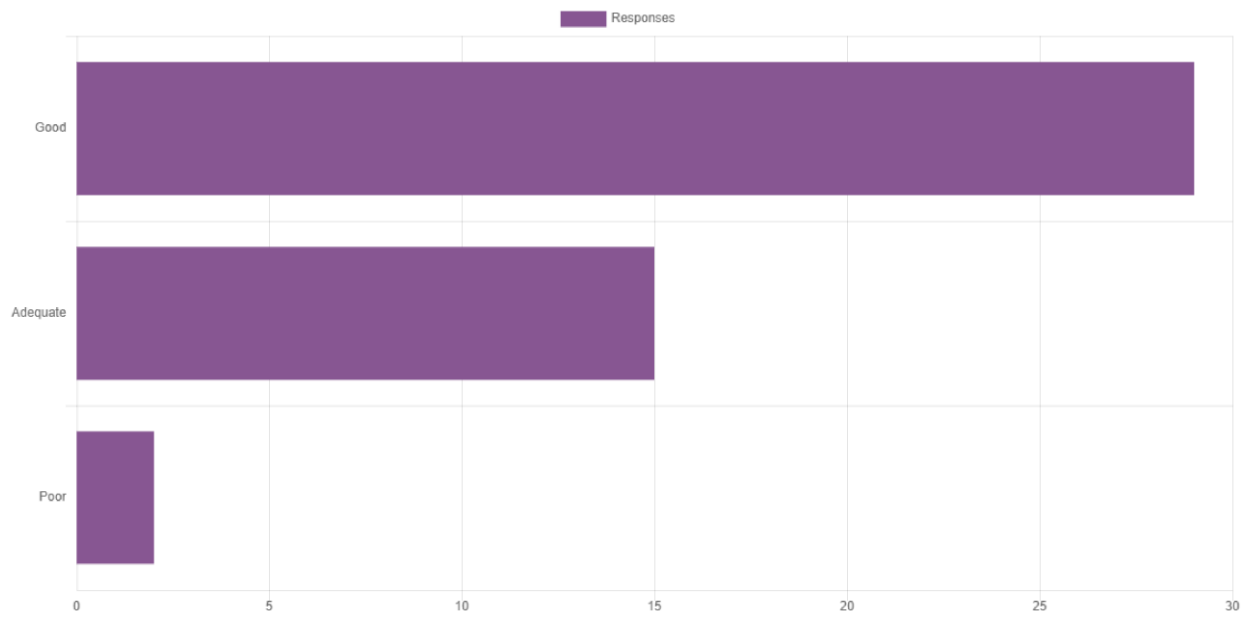
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**(Q5) Explanation of new terms and concepts was**



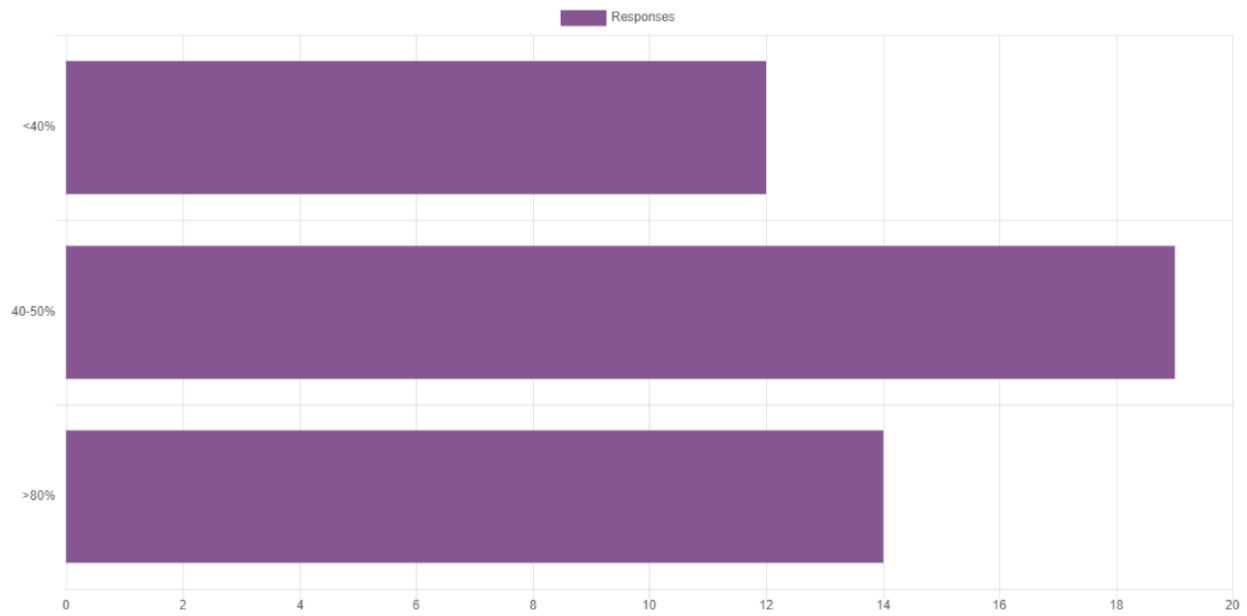
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**(Q6) I have a (...?) set of notes**



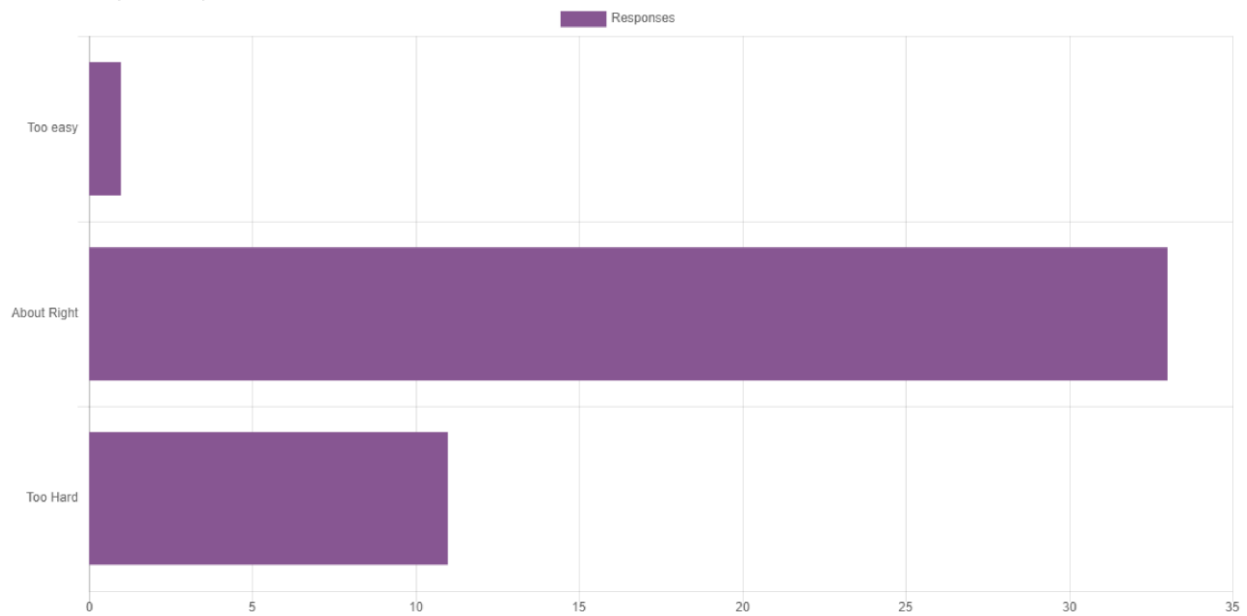
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**(Q7) I attempted (...?) of examples sheet questions**



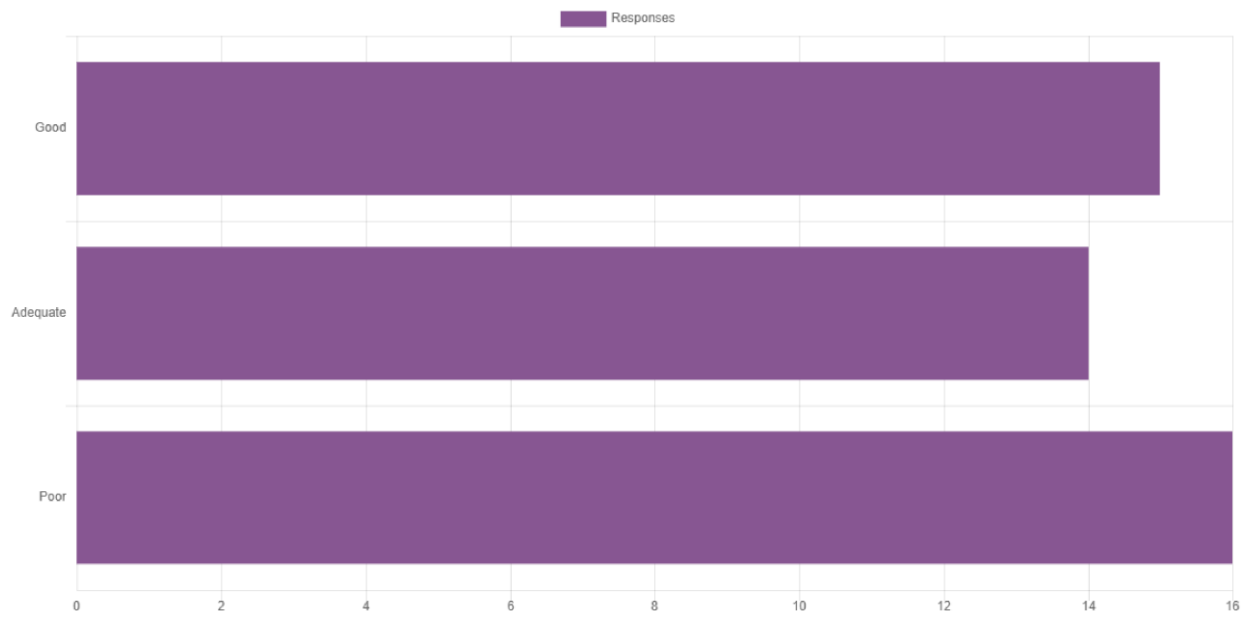
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**(Q8) The examples sheet questions were**



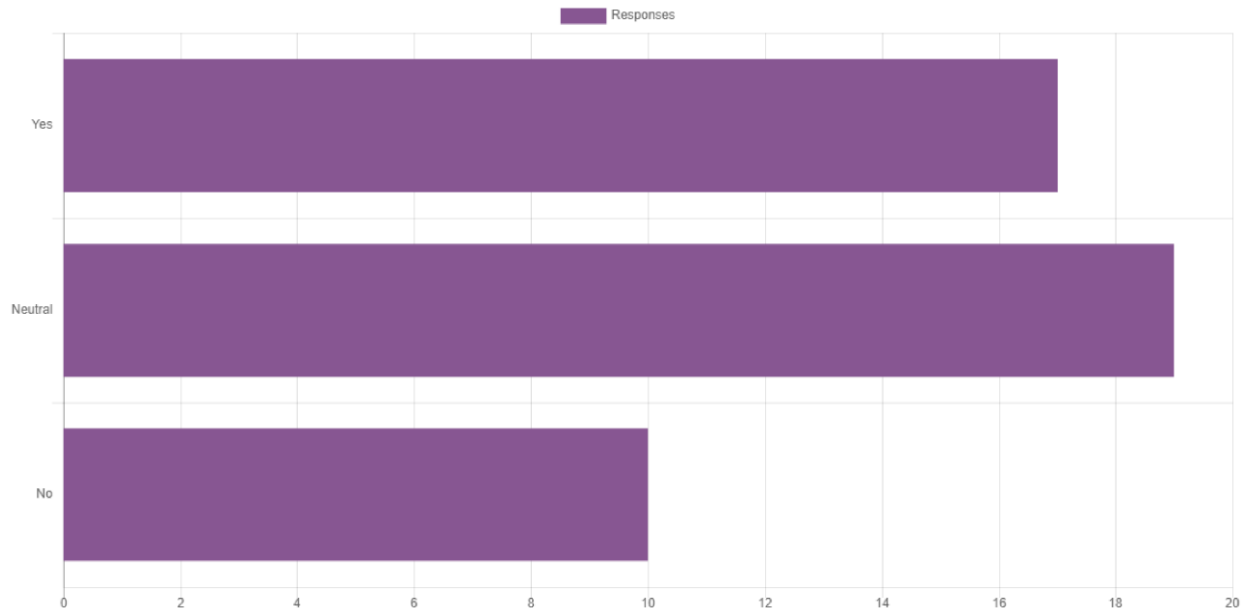
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**(Q9) Promptness of feedback on submitted coursework was**



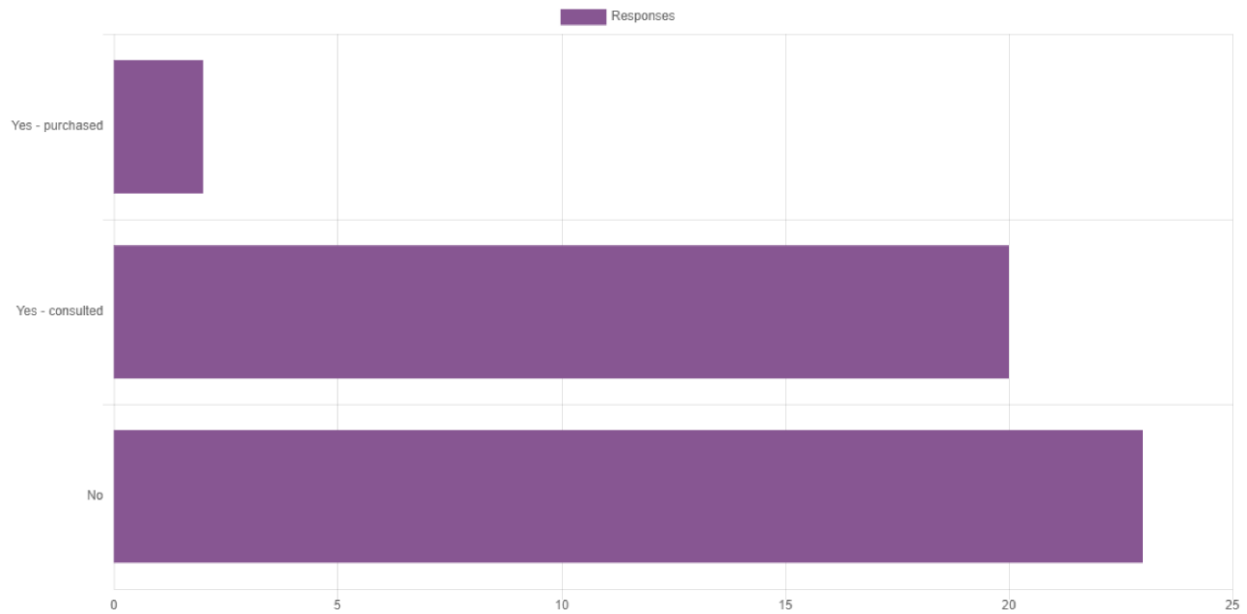
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**(Q10) Would you like a course taking this subject further ?**



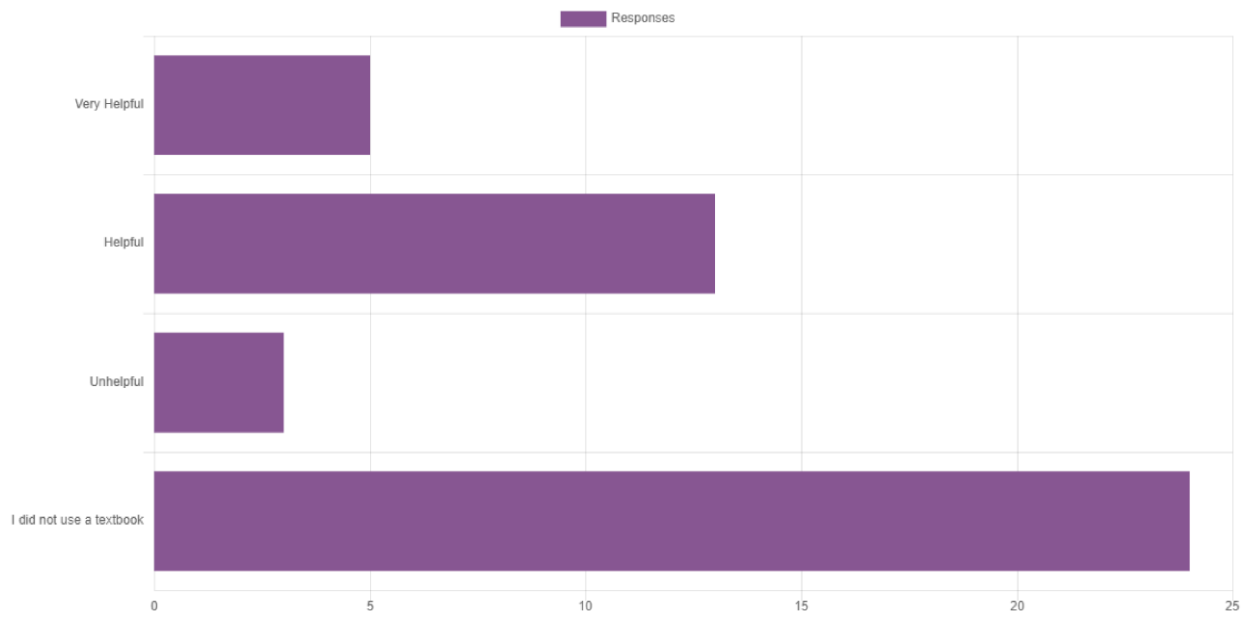
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**(Q11) Did you use any of the recommended/suggested textbooks?**



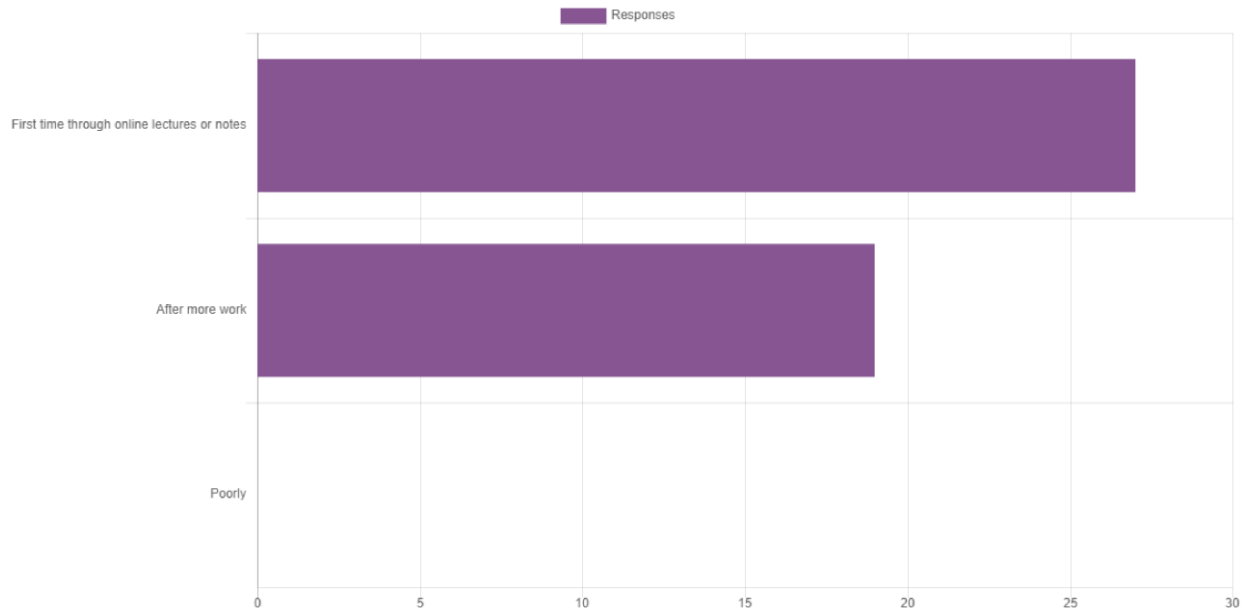
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**(Q12) I found the textbook(s) used to be**



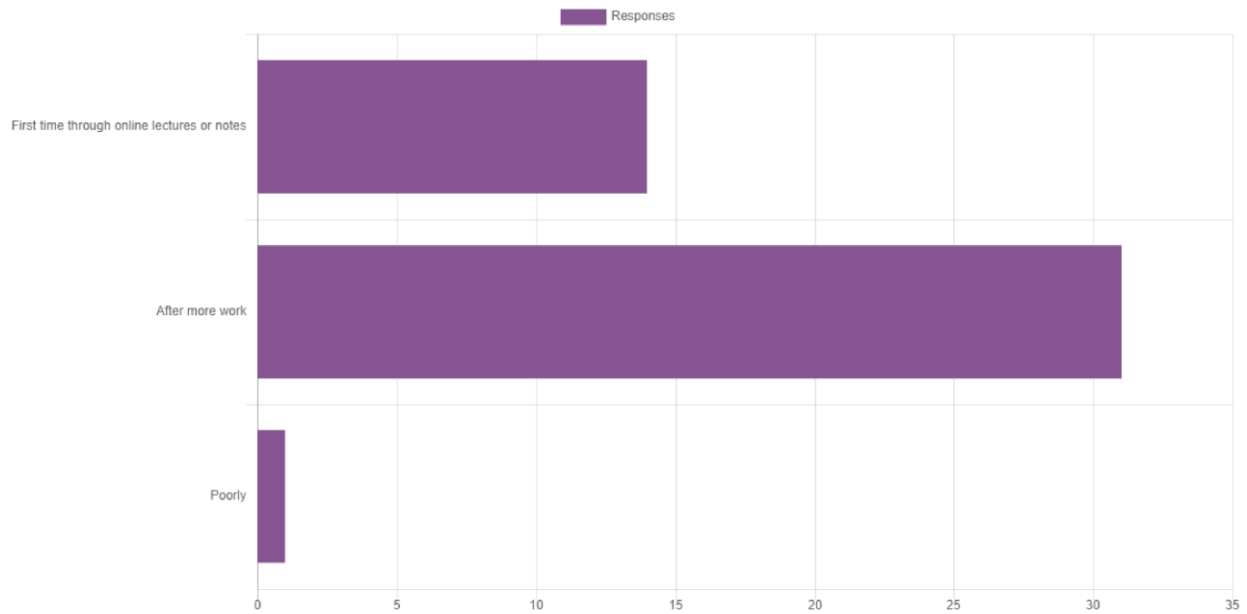
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**(A) Operators and angular momentum**



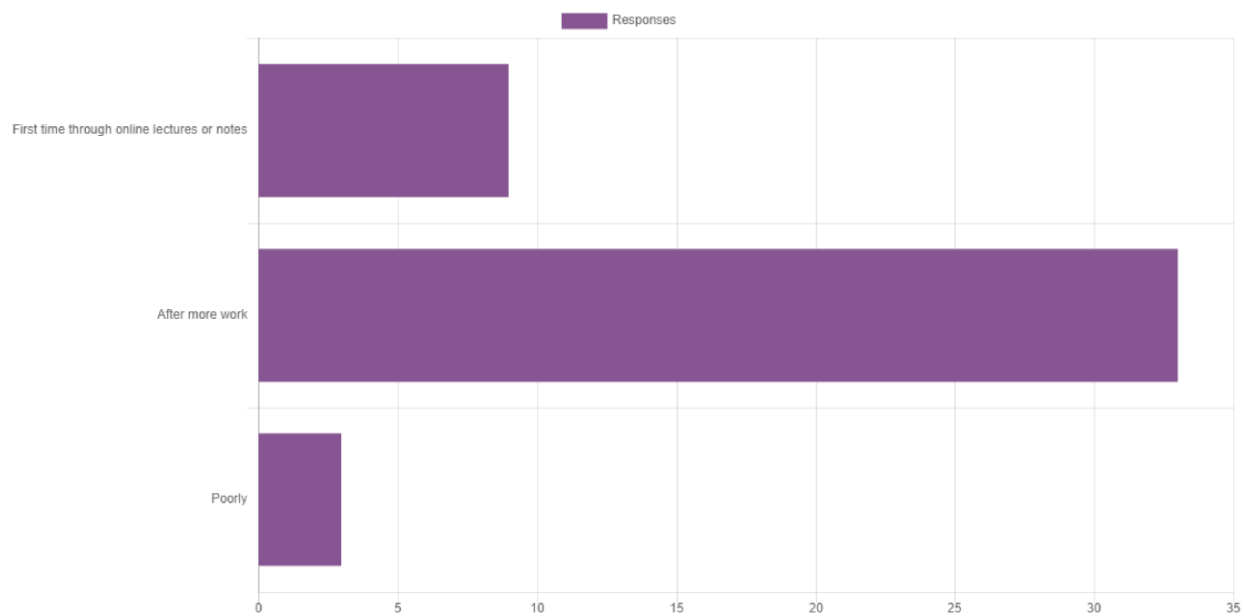
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**(B) Theory of approximate methods**



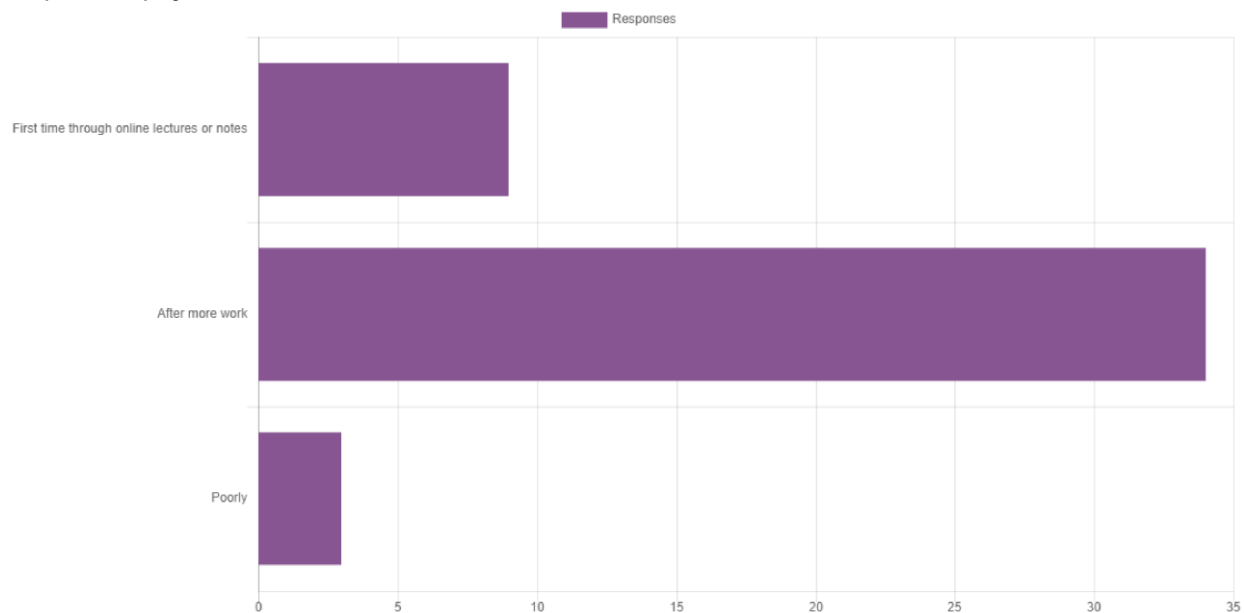
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(C) Calculations using approximate methods



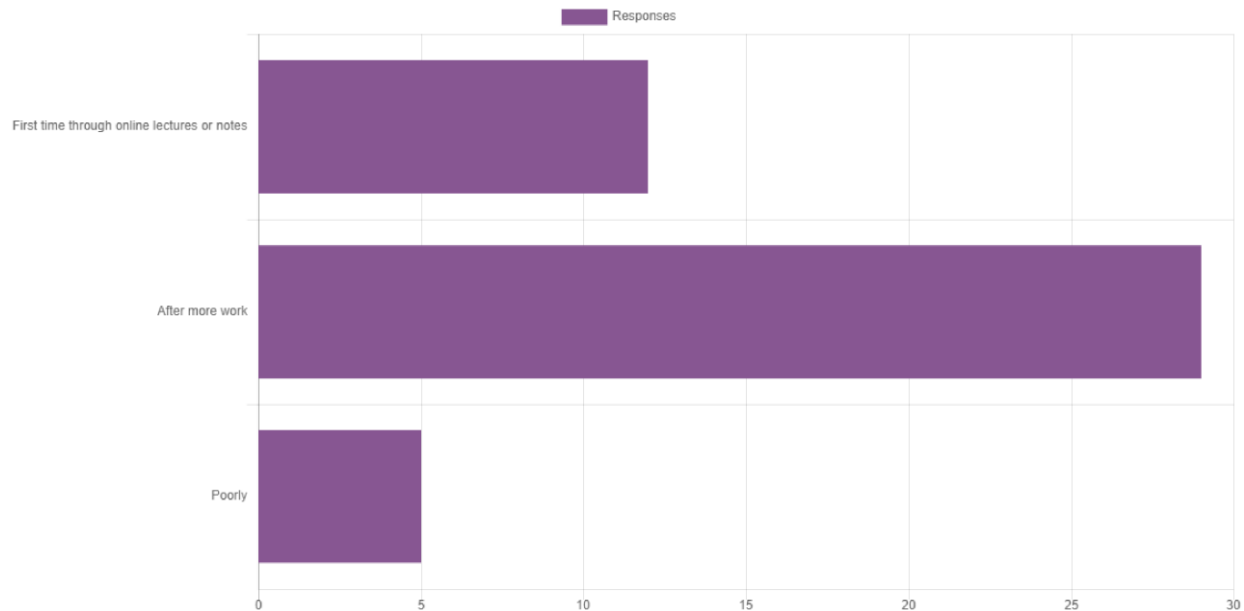
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(D) Spin-orbit coupling and the Zeeman effect



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(E) Identical particles, periodic table and many electron effects



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**The best features of this module were:**

- The videos were clear and easy to follow
- The printed notes in our pigeon holes with blank boxes for us to fill in as we watched the pre-recorded online lecture videos.
- The examples of calculations for each chapter
- It is over soon. Honestly hated it. The whole module.

The lack of a single set of printed lecture notes for the whole module REALLY DOES NOT HELP.

- Everything well scheduled and organised.
- Interesting material covered.
- Good to see how concepts we covered in previous years were built on
- The derivations were explained well. The examples were also useful and interesting
- The notes were good.
- The lecturer is very good, he explains everything on the slide very clearly, defining each and every term on the page.
- its online
- Despite the covid, the live lectures attended were all pretty well done. And so were the video lecture. No problem in making my own notes.
- Dr Lees was very prompt in feedback and offered great explanations. His notes are concise, clear and I feel I have learnt a great deal from the module. Thank you.
- I particularly enjoyed how well the lecturer went about his teaching. He was thorough and detailed and ensured understanding was a top priority. Quantum is a very hard topic that I usually struggle with, but his teaching style made it very understandable and enjoyable.
- Lectures took the time to remind us of previous topics so that we didn't feel left behind if our memory of the topic wasn't 100%
- Martin Lees had very clear explanations and his bite-sized videos have been very well produced, some of the best lecture videos I have seen so far. The lecture slides + blanked out notes system works really well for this module.
- I really liked the 'filling in' format of the lecture notes. The online events were also helpful.
- The easiness to follow the material and the references made throughout the lectures to appendices for further calculations or for proofs in a book
- Clear and useful colour coordinated powerpoints. It was very helpful for me that lecturer always explained what the subscripts and superscripts referred to in the various equations, as well as lots of reminders about where the terms came from.
- Some of the early examples in the lecture and notes were very detailed and thorough.
- Material was interesting and recommended texts were helpful
- Martin Lees' explanations were very clear and supplemented the notes given to us very well. I quite enjoyed this module and I am happy it is a core module.
- I appreciated the fact that the lecturer often went over any assumed knowledge before using it.

In general, things were explained well however the questions on the problem sheet were sometimes a bit of a jump.

- Mathematics demonstrated is rigorous and helpful in formal definitions
- The practice question sheets were helpful for the online assessments. The approximation method was covered well.
- The hand out notes.
- The lectures were cut into good sizes
- Covered some interesting concepts
- The quizzes are useful in keeping up with the content, especially now modules lack structure due to COVID.
- Content overall was nice.
- The printed lecture notes provided and the structure (in terms of going through slides in the pre-recorded videos and filling in the printed notes ourselves).

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

- Answers to the online quizzes would be incredibly helpful for revision. It would have been great if the diagrams in the latter part of the module, detailing the different energy levels and splitting, were included in the handouts.
- Online quizzes need to have the solutions available after the deadline so that I can know what questions I answered incorrectly and therefore on what areas I need to improve.
- Distribution of putting out lectures was poor not just in this module, in all 3 core models the last week 5 had a lot more content.

Personally I can't see the benefit to the format of the online quiz, I've come away from the quiz demotivated, very stressed and not looking forward to the exam. There is no way to improve as I am not sure if I'm right or not in my answers.

- Allow students to see which questions they got wrong on the bi-weekly assessments. Not giving any feedback doesn't help students progress, and it makes the assessments essentially meaningless. It's not that hard to alter the questions between years as to avoid cheating. Also in future recordings of live lectures try to be a better speaker; listening to a man who sounds like he couldn't care less about the content makes it hard to engage with the course (I swear in one of the lectures in sounds like you're eating whilst your talking). Maybe include more worked past exam questions so students know how to use the knowledge properly.
- It would be nice if we can see what the answers to the assignment questions were so that we can improve by going through our mistakes.
- It would be good to be able to review the quizzes and see what questions you got wrong and what the answers were meant to be, as it is hard to know what you are not understanding when you just get a mark and have no way of knowing what you did wrong.
- It would have been better to have the lecture videos with the lecturer writing out the notes, since this is the way we have been taught for the past two years.
- A better and more thorough explanation of some of the principles and terms.
- It would be extremely useful to be able to review our online quiz/tests, at least to be able to see which questions we got wrong, even if we can't see what the correct answer is, and at least prior to the exam.
- I do believe a 3 hour quiz is too long for only 5% of a module - it's longer than some of my past exams, and sometimes even harder. I don't wish for the quizzes to be abolished, as they are very helpful in understanding and preparing, but it was a lot of work to keep up with.
- Went through the material far too quickly. Took up to an hour to get all the material from a 20 minute lecture. Wasn't the most engaging as just read from lecture slides.
- Release detailed feedback for the online tests. It's pointless doing questions and getting an overall mark with absolutely no idea of where we went wrong and what we need to work on
- In all other modules I've had in Physics with moodle quizzes I've been able to review answers to see where i've gone wrong, which proves to be a good revision source. It would be nice to be able to do that here.
- It would be useful to know which questions we got wrong in the online quizzes so that we know what areas of the module need focussing on
- No feedback was given from the moodle quizzes as to which questions we got right or wrong, only a final mark was given. Not very helpful to revise from or improve for the next moodle quiz.
- Feedback on moodle quiz and better example questions.
- Perhaps some more examples of calculations for later chapters of the module

- Please, please, please, just give us a complete set of fully filled in lecture notes.
- Speaking slightly slower in video lectures.
- nope
- It felt like a lot of content, that's possibly due to it being online lectures for the first time, but with permanent stopping and starting to copy down long complicated formulae/notation the module felt intensive.
- Would have been nice to have more examples in the notes for later topics.  
A lot of terms in the later part of the course were less well explained.
- The last part of the module was a lot less interesting than the first part, (last parts are ch 10+); first parts are (6,7,8,9)
- The fact that we have online tests which seem as though they are there to make sure we learn the content, but feedback isn't given. This makes the tests almost pointless because I have no idea where I went wrong on a quiz that I put a lot of work into to get a bad grade.
- Please release the answers to the moodle quizzes. I would like to improve and learn from the mistakes I made. Also please explain the concepts better in the lectures. Although they are rigorous, they are incredibly difficult to understand conceptually and too much terminology is brought in but not explained properly.
- Feedback on quizzes would be beneficial, as they only constitute 15% of the module in total it makes more sense for them to be formative in my opinion.

#### Some more questions

- Feedback from online quizzes would have been tremendously useful. It is very confusing to know that you answered say 60% of questions correctly, but do not know what to especially work on, since the marks could have been dropped anywhere (including potentially questions for which I was mistakenly confident).
- Maybe one more problem sheet would be good
- Maybe just the speed of talking throughout the lectures, I found myself pausing some times to take notes and not get behind the explanations and some details
- I really wish that the results of the online quizzes were viewable alongside the release of the marks, as I'd really have liked to go over and see what I got wrong and how I could improve.

Also, as the module went on, there were very few dedicated example videos compared to the earlier chapters. I found these example videos really useful earlier on, especially to see the lecturer walking through the process of solving exam-style (and beyond) questions.

Finally, considering this is an unusual year with presumably unusual exams, I'd really like to know what I could expect from the final exam, as it is unclear to me the approach I would take towards revision. I think a mock-exam paper would really help to see how to approach an exam written with 'open-book' in mind.

- N/A

- Instead of reading through powerpoint slides, would have been useful to have talked through written notes as you wrote them out, or talked through the written notes instead.
- Incredibly frustrating that you cannot review the quizzes for the modules once completed. It would be invaluable to know where the mistakes were made, in order to tailor additional work and revision to understand the errors and get a better grasp with that area of the module. Even without being given the correct answers or workings, knowing which answers were right and wrong would still be useful. However now, without knowing what exact areas went wrong we are stuck with scores that really have little value attached to them in terms of aiding us with our work.
- It would be better if feedback was available for the moodle assignments on the week it closes to see where we went wrong to ensure we rectify these mistakes sooner and not carry on with the module with incorrect understanding of certain aspects. However, I hope the lecturer will let us review the quizzes before the exam.

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#### Any other comments:

- Thank you for the module, Martin!
- It would be helpful to know which quiz questions we got wrong after the deadline.
- I think the lecture format had its pros, with concise shorter lectures clearly allowing students to focus more per short lecture. However, personally, I believe uploading 3 (or however many) normal 1 hour lectures a week would have been better and easier to follow as that is what I'm used to.
- Thank you for teaching the module
- My suggestion for the lecture notes is to literally explain every index you refer to, and every concept you bring up primarily in a way that a Year 1 student with minimal physics knowledge can understand. Having a lot of maths right away detracts from the clarity.
- N/A
- No
- N/A
- I hope all lectures will be online in the future
- Quality lecturer, explains everything very well...sometimes talks a bit too fast but overall great!

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