

PX446:Condensed Matter Physics II

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Module questionnaire 20/21 (PX446)

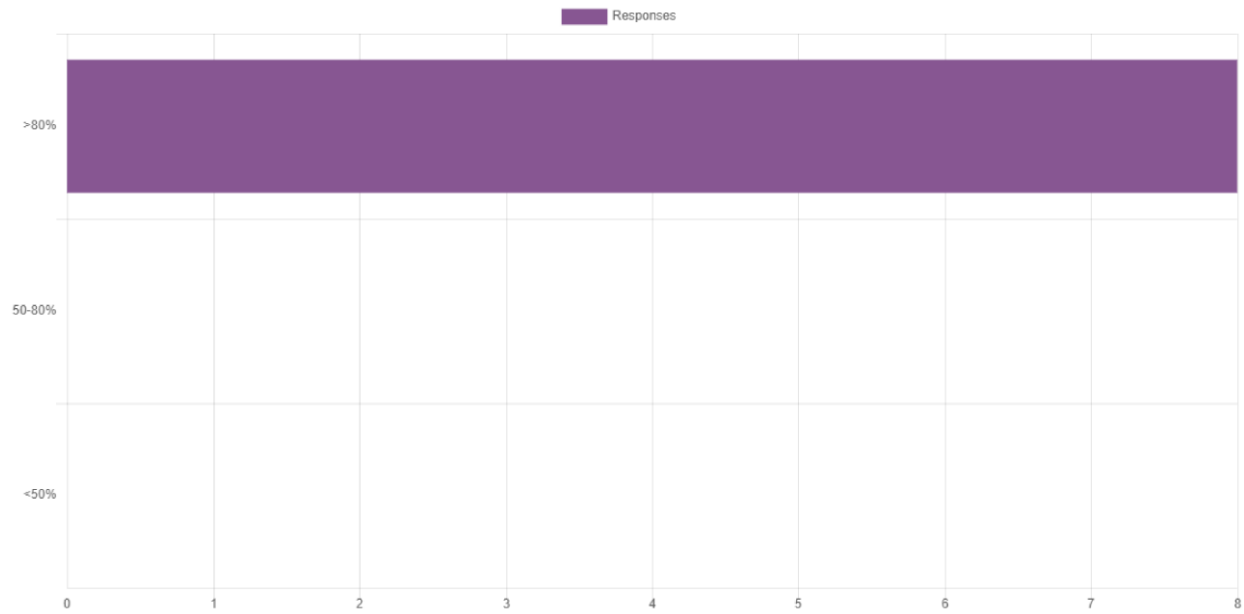
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Submitted answers: 8 / 34

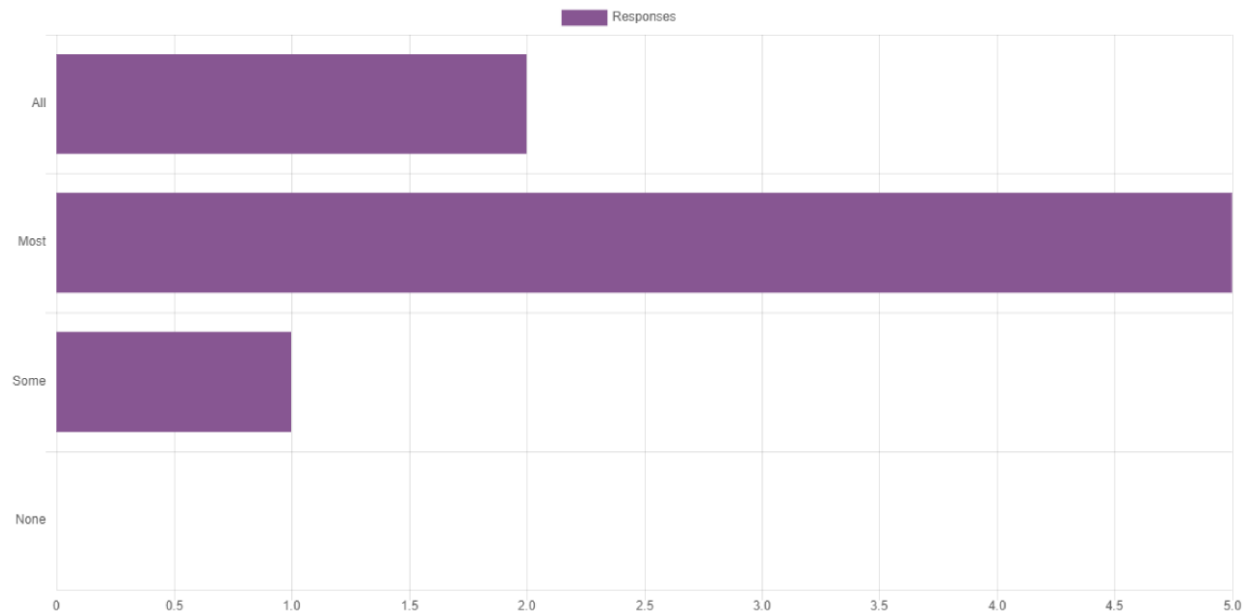
Questions: 20

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



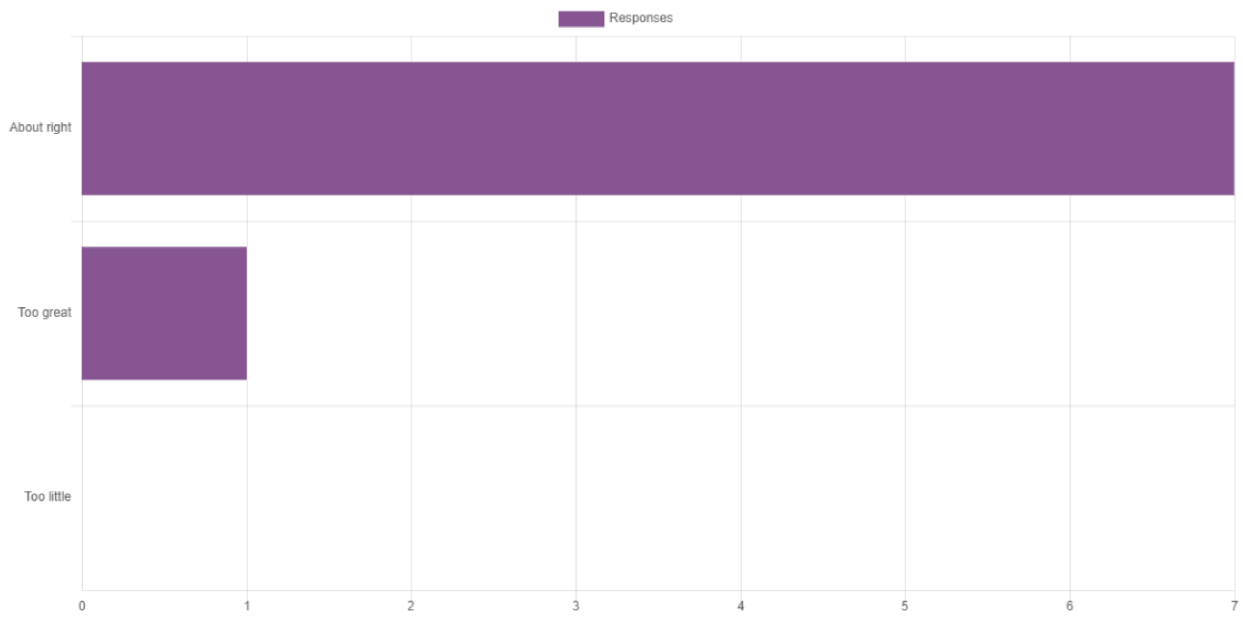
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(Q2) I attended (...?) of the Live events for this module



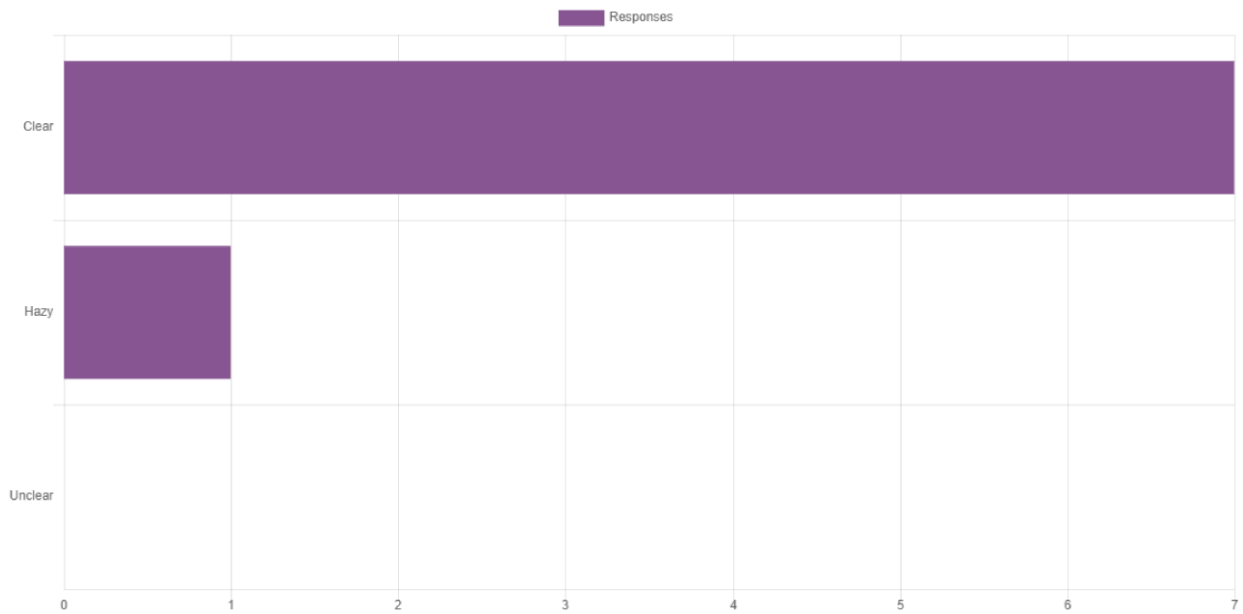
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(Q3) The quantity of material was



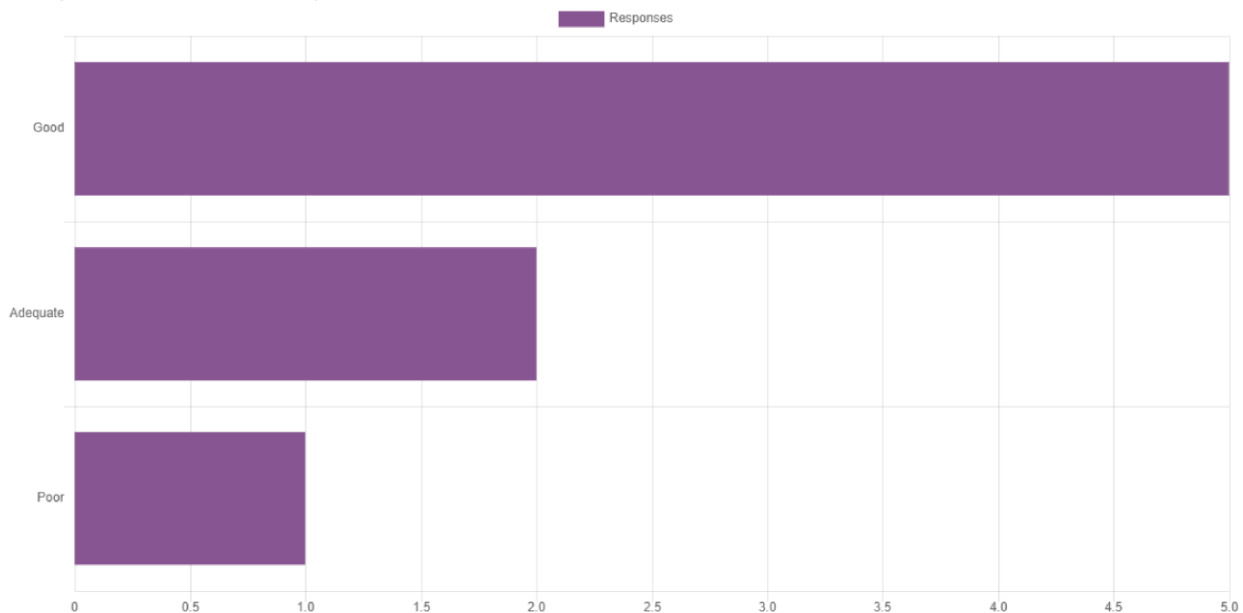
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(Q4) By the end of the module its purpose and direction were



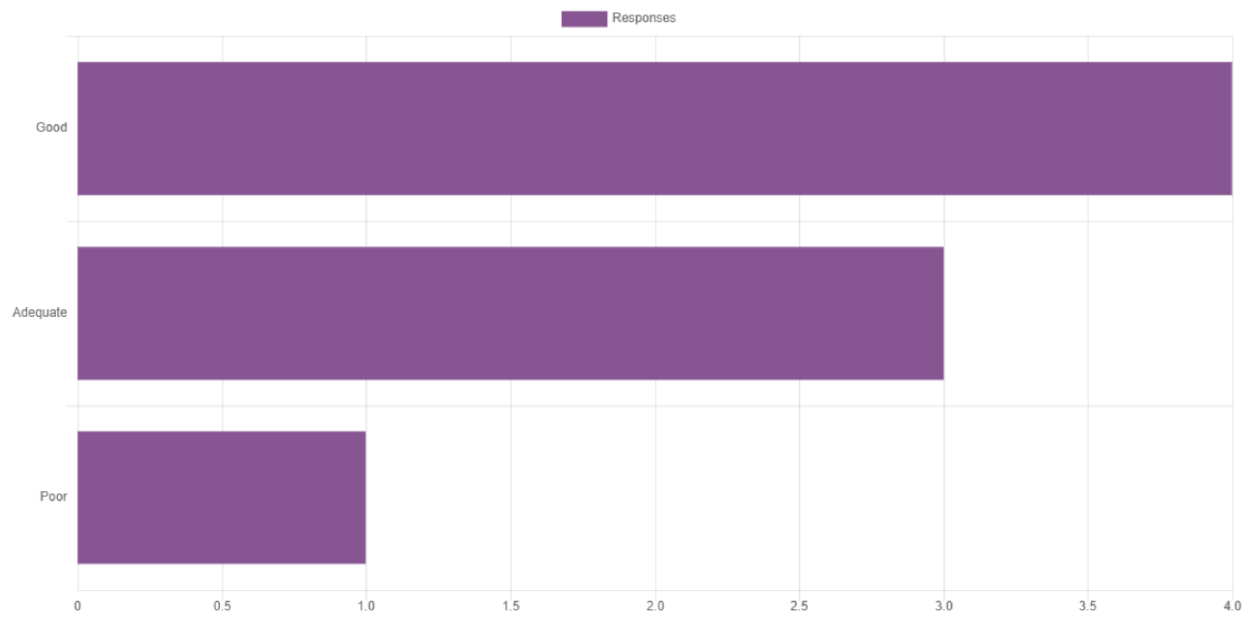
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(Q5) Explanation of new terms and concepts was



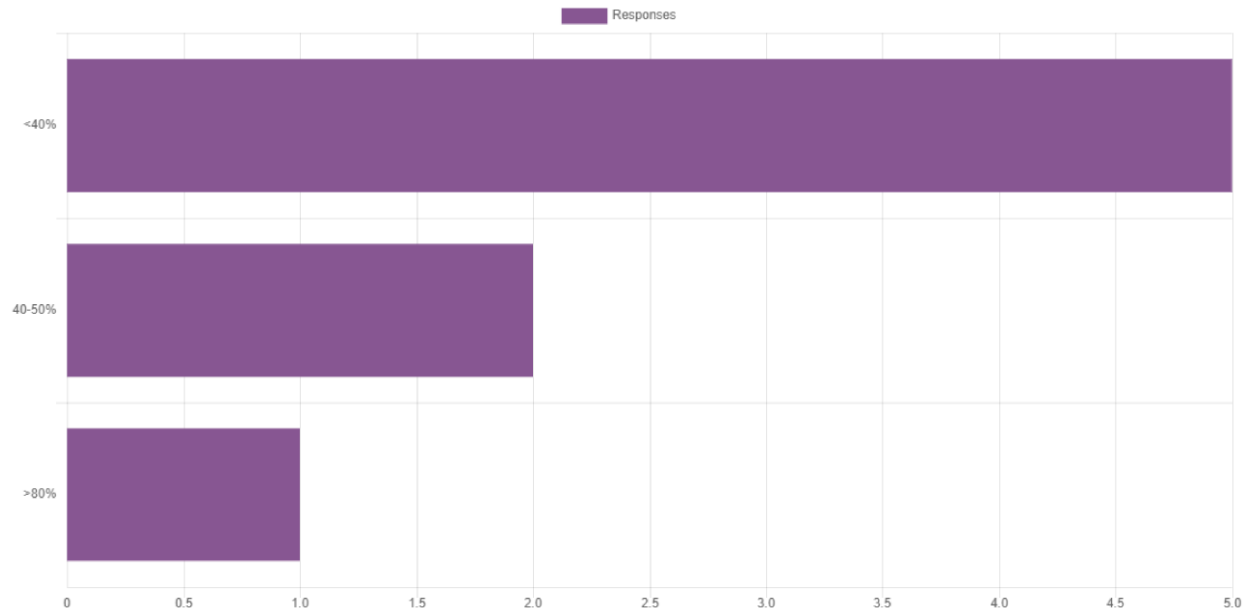
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(Q6) I have a (...?) set of notes



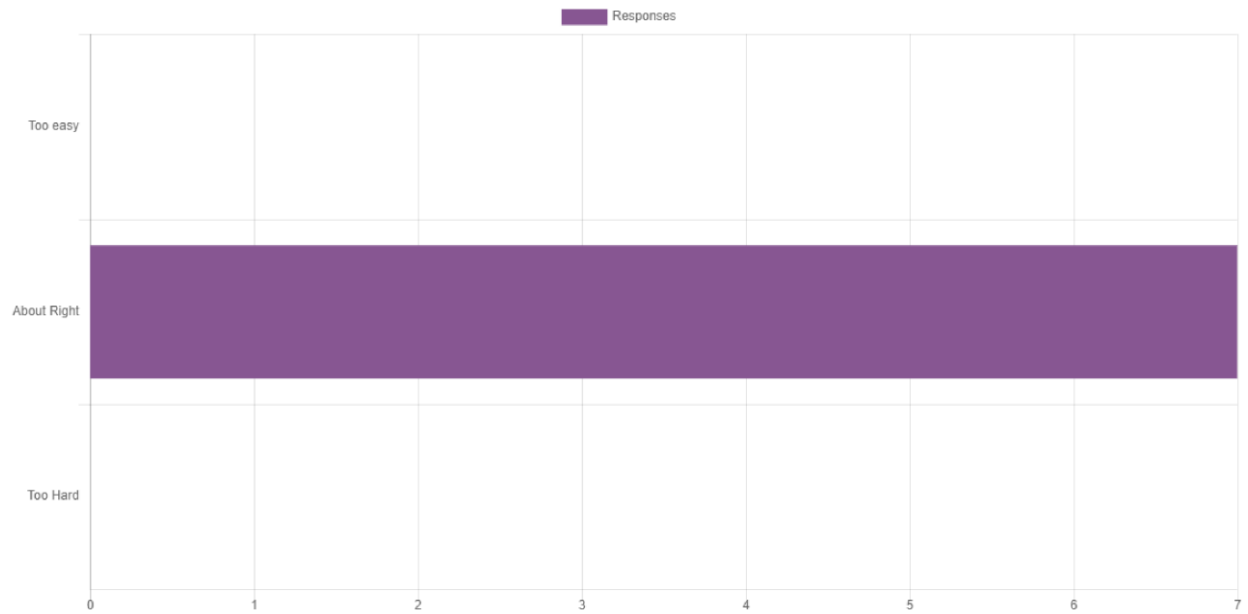
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(Q7) I attempted (...?) of examples sheet questions



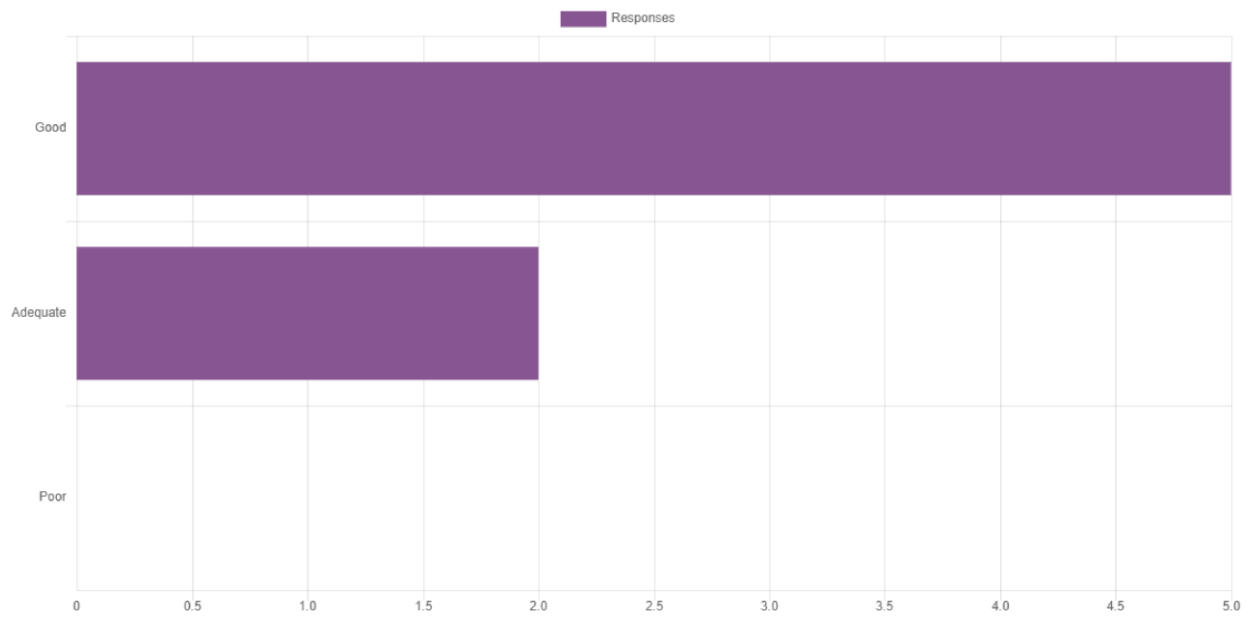
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(Q8) The examples sheet questions were



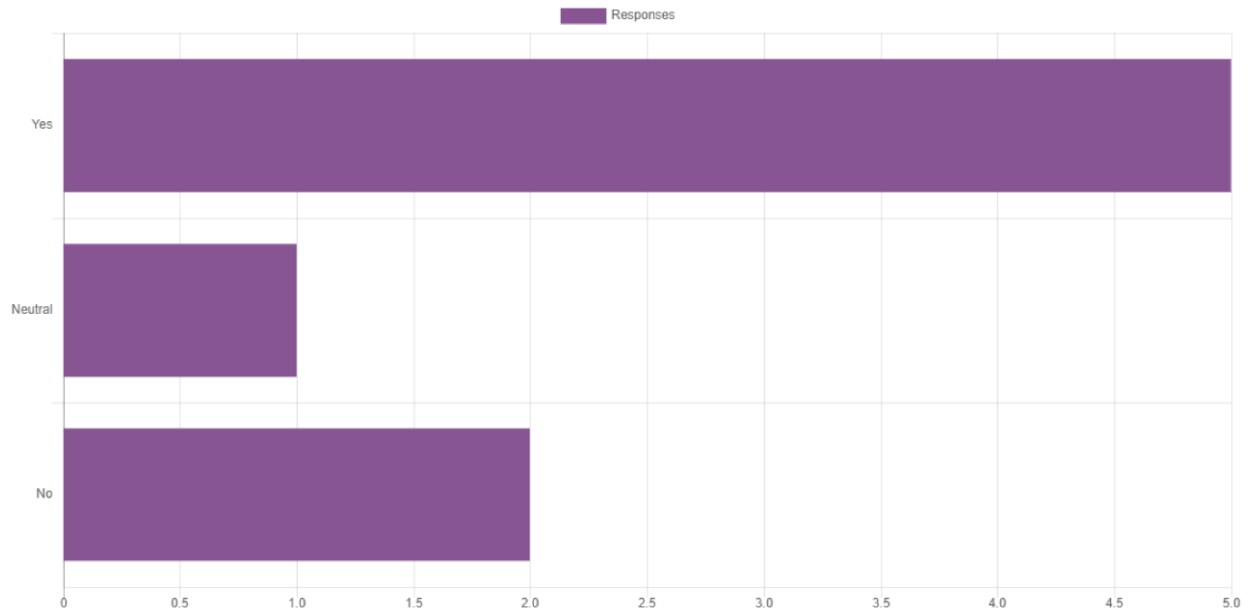
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(Q9) Promptness of feedback on submitted coursework was



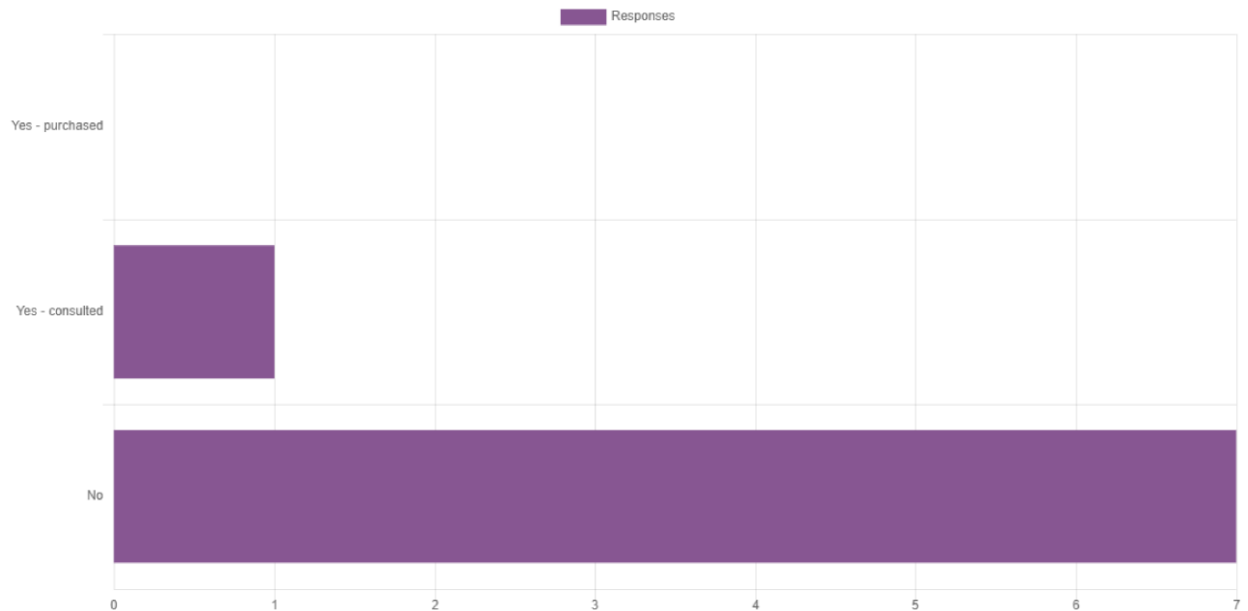
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(Q10) Would you like a course taking this subject further ?



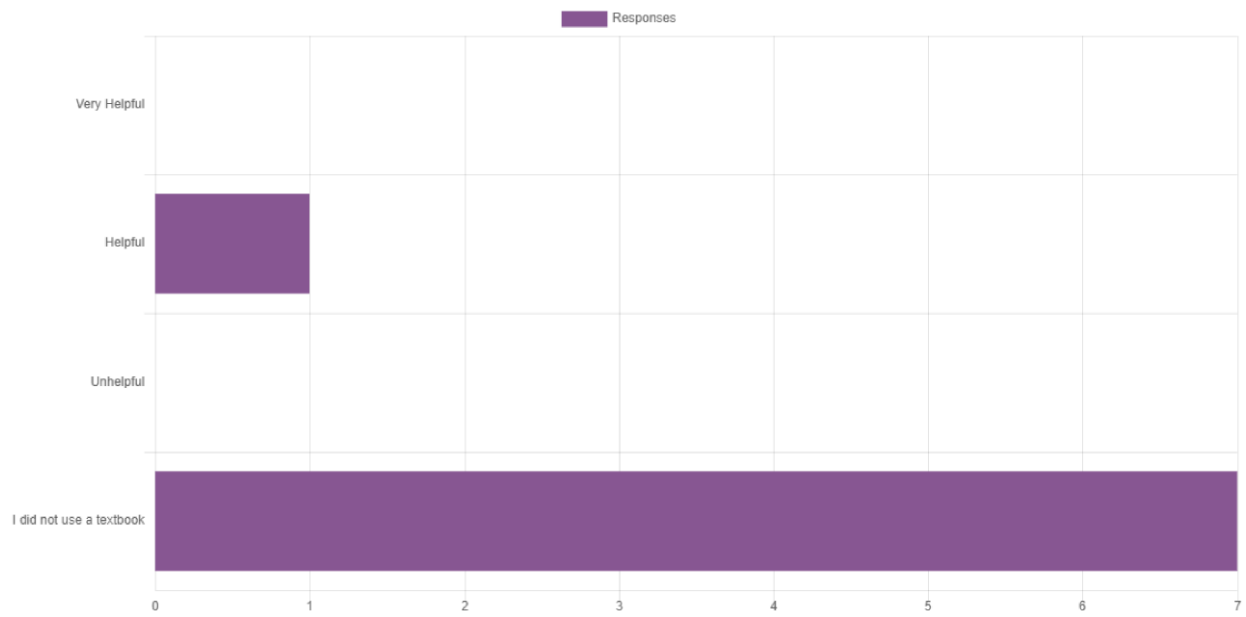
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(Q11) Did you use any of the recommended/suggested textbooks?



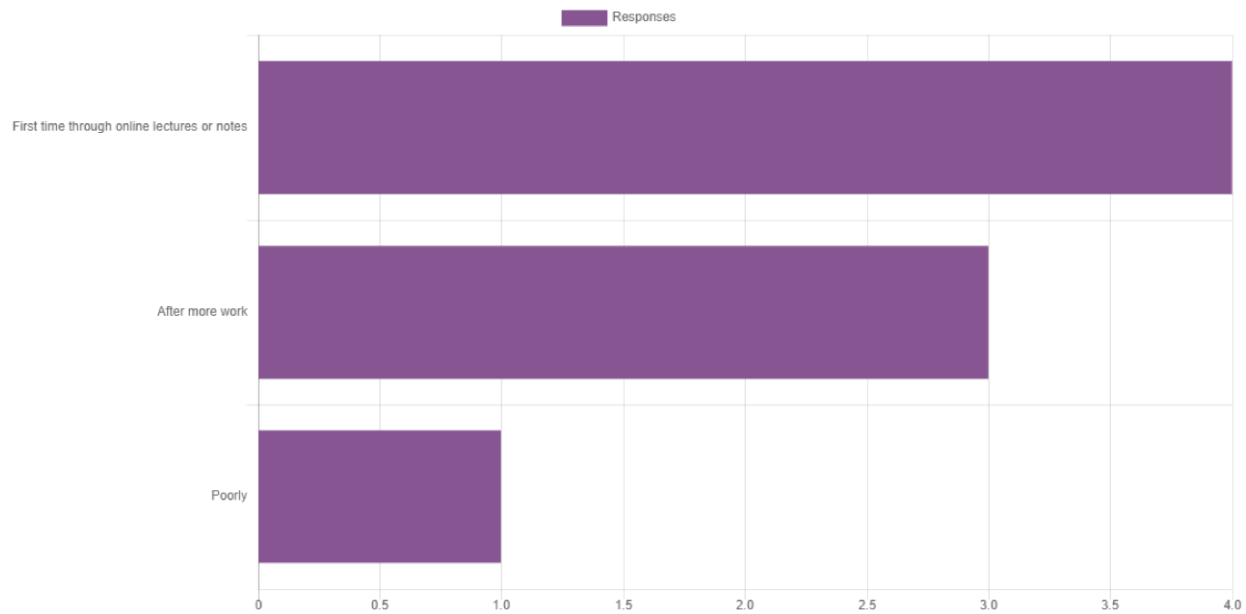
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(Q12) I found the textbook(s) used to be



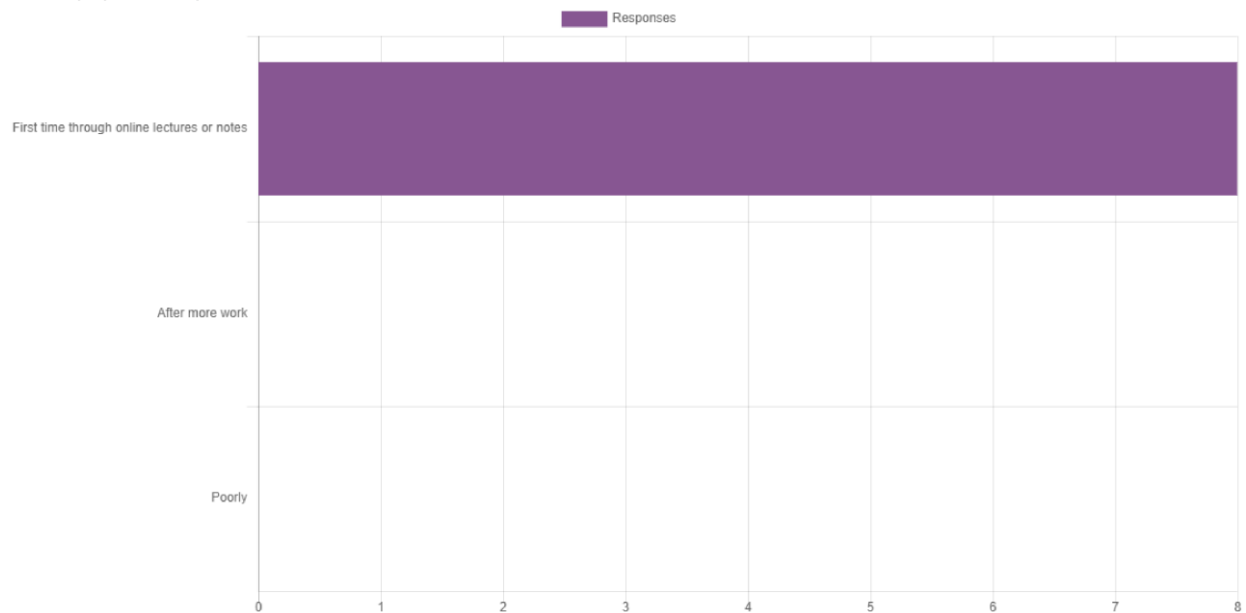
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(A) Behaviour of magnetically ordered systems (FMs and AFMs) in an applied field



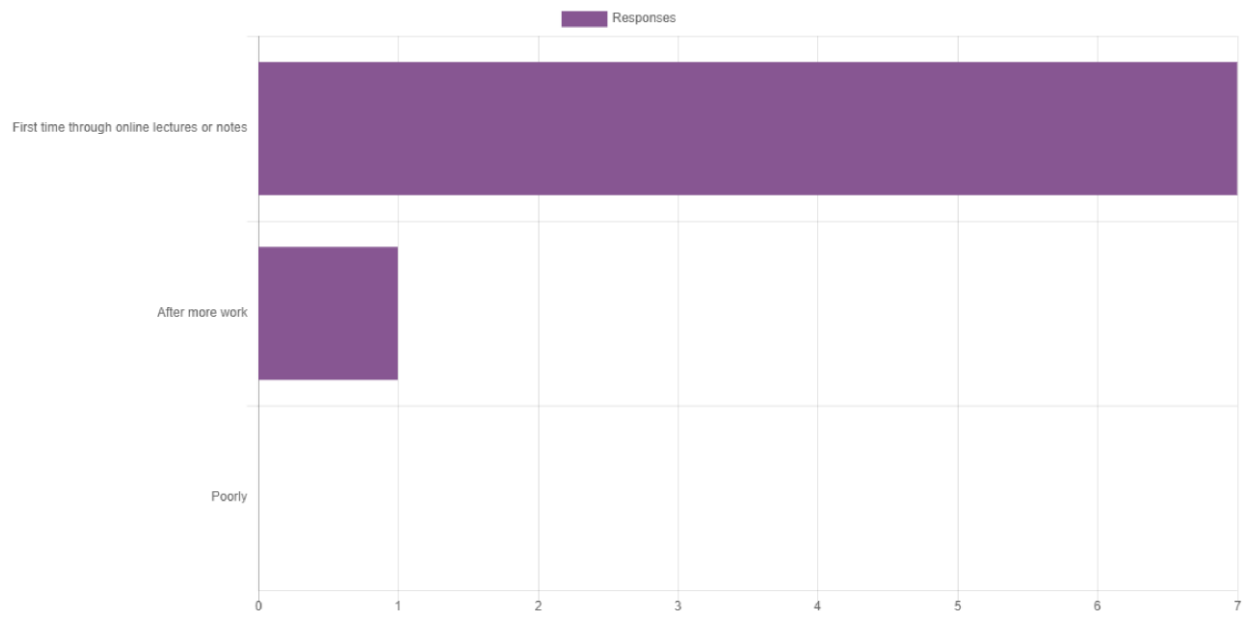
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(B) Basic properties of superconductors



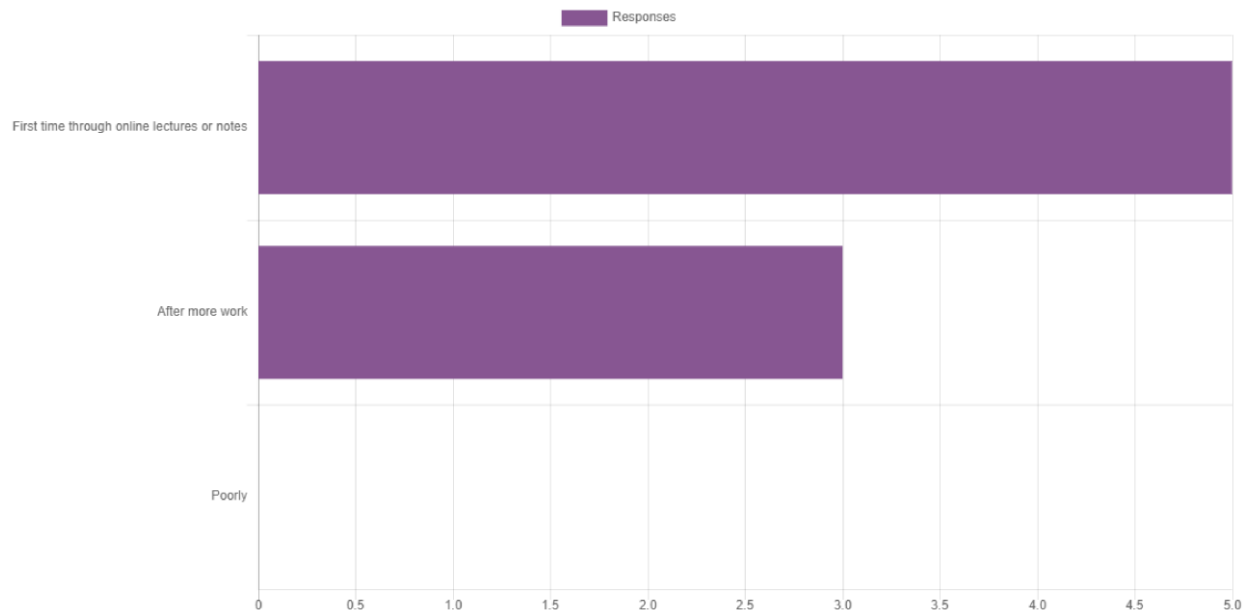
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(C) Theories of superconductivity



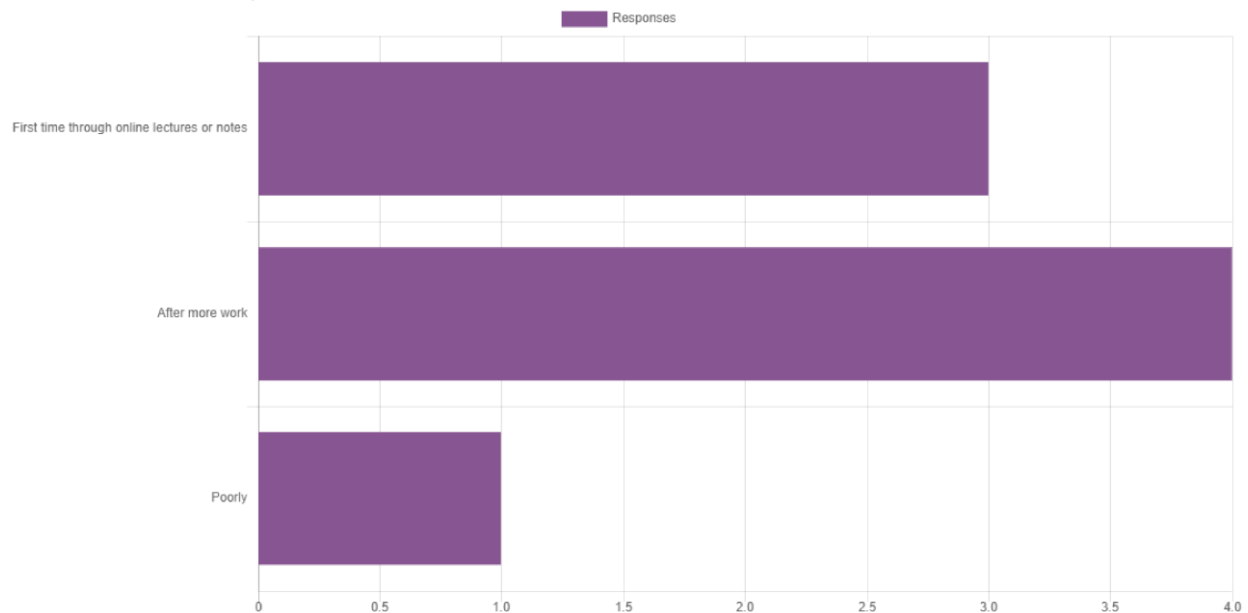
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(D) Fermi's golden rule and application to interband absorption



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(E) Free carriers/intraband absorption



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The best features of this module were:

- The superconductivity part was extremely good: a perfect balance between theory and real data/applications
The optical part was interesting too
- First 10 lectures was a good CMP grounding
Superconductivity was very interesting to learn the details of
Optical Properties was well explained
- The super-conductivity part of the course was done perfectly. I actually had fun learning about SC.
- Interesting subject matter
- Different lecturers for different modules were great. They all had their strengths
- Interesting content, superconductivity notes are great

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

1. More engagement of the professors of the magnetism part in the live sessions: most of the time they weren't helpful
 2. Check the quality of the video, especially in the optical part. There were many technical issues and I needed to consult the notes, since the videos were unclear
 3. I believe in the optical part the amount of hours/week was a bit excessive
- Some of the optical properties lectures has some audio problems in th first ten seconds, and some bits were hard to read (although the latter was rare)
 - The only improvement is refining use of the new video format
 - David's audio quality of lectures was terrible.
 - The magnetism and optics parts were very poorly done.

For magnetism, Oleg sounded depressed and uninterested as a result listening to his content was painful. He used far too many slides and explained new concepts very poorly. The recommended book was not available online and there were never any copies free in the library, he also did not have any typed notes which meant he provided us with a poor variety of material to learn from.

For optics the video and audio quality was terrible. I thought it was unbelievable how this content was allowed to pass. In particularly the hand writing was bad which meant I had to spend some time trying to decipher what was said. Yet again, there were also no typed up notes.

Any other comments:

- Thank you :)
- Good modules overall (I am a fan of CMP and I want to do a PhD in this!). There is still room for improvements from the technical side
- Low image quality of optical properties lectures made them more difficult to follow.
- The magnetism and optics part of the course often discussed a very high level understanding of the theory, as a result we do not fully understand the material. It would be better to explain more, but talk about less. The optics part had about 2 times as much material as the previous 2 parts of the course, this section needs to have less material.

I would suggest Oleg and David would learn a lot if they saw how Paul Goddard did his part of the course.

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