Module questionnaire 20/21 (PX385)

Thank you for submitting your feedback on this module - all submissions are anonymous.
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%	93%	27
50-80%	7%	2
Total responses to question	100%	29/29

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

Response	Average	Total
All	17%	5
Most	31%	9
Some	34%	10
None	17%	5
Total responses to question	100%	29/29

3   The quantity of material was...

Response	Average	Total
About right	83%	24
Too great	17%	5
Total responses to question	100%	29/29

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

Response	Average	Total
Clear	93%	27
Hazy	7%	2
Total responses to question	100%	29/29

5   Explanation of new terms and concepts was...

Response	Average	Total
Good	90%	26
Adequate	10%	3
Total responses to question	100%	29/29

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

Response	Average	Total
Good	86%	24
Adequate	11%	3
Poor	4%	1
Total responses to question	97%	28/29

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

Response	Average	Total
<40%	38%	10
40-50%	38%	10
>80%	23%	6
Total responses to question	90%	26/29

8 The examples sheet questions were...

Response	Average	Total
About Right	94%	17
Too Hard	6%	1
Total responses to question	62%	18/29

9 Would you like a course taking this subject further ?

Response	Average	Total
Yes	66%	19
Neutral	34%	10
Total responses to question	100%	29/29

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

Response	Average	Total
Yes - purchased	3%	1
Yes - consulted	48%	14
No	48%	14
Total responses to question	100%	29/29

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

Response	Average	Total
Very Helpful	12%	3
Helpful	48%	12
I did not use a textbook	40%	10
Total responses to question	86%	25/29

I understood the following main topics

12 Crystal Structure

Response	Average	Total
First time through online lectures or notes	71%	20
After more work	29%	8
Total responses to question	97%	28/29

13 Free electron model

Response	Average	Total
First time through online lectures or notes	76%	22
After more work	21%	6
Poorly	3%	1
Total responses to question	100%	29/29

14 Nearly free electron and tight binding models

Response	Average	Total
First time through online lectures or notes	41%	12
After more work	55%	16
Poorly	3%	1

Response	Average	Total
Total responses to question	100%	29/29

15   Real metals & semiconductors

Response	Average	Total
First time through online lectures or notes	45%	13
After more work	45%	13
Poorly	10%	3
Total responses to question	100%	29/29

16   Magnetism

Response	Average	Total
First time through online lectures or notes	44%	12
After more work	48%	13
Poorly	7%	2
Total responses to question	93%	27/29

17   Superconductivity

Response	Average	Total
First time through online lectures or notes	59%	16
After more work	37%	10
Poorly	4%	1
Total responses to question	93%	27/29

18   The best features of this module were:

Respondent	Response
	The first half of the module was clear and concise, explained very well.
	The lecturer was not extremely serious and it made the learning atmosphere more comfortable and enjoyable.
	Upbeat lecturer made watching the recorded lectures far more interesting and enjoyable.
	The lecturer!
	The material arrangement was great and the charisma and energy of the lecturer helped to get excited about the content while keeping in mind the bigger picture.

Respondent	Response
	Enthusiastic and engaging lecturer even in covid times!
	Very high quality lectures that were clear and well spaced out and divided into sections
	The lecturer-she was brilliantly engaging
	Real life examples of where the theory was applicable
	The enthusiasm of the lecturer
	Module covered a variety of interesting phenomena. Nice to see how the foundational QM and statistical knowledge from earlier years is used to explain complex phenomena.
	I specially enjoyed the structure of the course with chapters, hi-lighted equations and the video setup that you used. The subsections were also great and the explanations were always on point.
	Emojilanches. The easy to understand explanations.
	I particularly enjoyed the time spent to explain certain concepts like crystal structure where instead of just explaining notation and moving on, examples were complete which greatly enhanced understanding of the topic. Great use of power points to explain things, some lectureres just use pen and paper which greatly limits the clarity of their diagrams and therefore teaching. Care was clearly given to space out the content.
	Rachel's enthusiasm for the subject was very infectious - it made online video lectures (which can become very bland) enjoyable and interesting. Smiling, wearing funny tops, adding in random links to videos and getting overly excited actually really helped me to engage with the content. In addition to this, Rachel is very good at explaining complex topics. The 'most difficult topic' on Landau levels was surprisingly easy to digest, which I owe entirely to Rachel's methodical explanations. Thank you Rachel! Keep up the good work!
	Rachel Edwards! Your enthusiasm for the topics was really infectious and refreshing, and going through your lectures was always my favourite part of the week. I'm very sad we didn't get the opportunity to meet in person this year.
	The lecturer was very good, nice set of examples included and it was engaging. Very interesting area of physics
	SPONGEBOB! Also Dr. Edwards enthusiasm for the content - it made it impossible not to enjoy the module.
	The content was delivered well and with great enthusiasm. This was enormously helpful both in terms of understanding new concepts and motivation to cover the new material!
	The contagious excitement of Rachel, gives a lot more motivation to study
	The lecturer was very engaging and probably the easiest to listen to I've ever had.
	Live sessions were very engaging. The lecturers enthusiasm!
	I really appreciated the quality and enthusiasm of Rachel's teaching; it undeniably added to my learning of the module. The live sessions were some of the most useful sessions I've had this year, with very good problems classes, and the content of the module was engaging and sufficient in my opinion.

Total responses to question	23/29

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

Respondent	Response

Respondent	Response
	There were several parts in Term 2 where I felt the direction was a bit unclear. For example, discussing the magnetic susceptibility, the relations to temperature for all types of magnetic material was a bit difficult to organise in my head. I think a course hierarchy similarly to how Quantum Phenomena was handled in Year 2 should be constructed, week by week so it is easier to consult topics. Also each topic should be treated independently as much as possible (i.e defining terms agains and being clear about notation even if already stated) so that it is clearer.
	Nothing in particular.
	I would find it easier if the lecture wasn't straddled across two terms but otherwise no improvements
	Although the lectures were short it felt like some topics were covered quickly before completely understanding it .
	Module felt rushed in many places. As with some other modules e.g. 2nd year QM, there is an emphasis on quantity over quality of delivery. Usually means that I had to read a lot more of the surrounding literature to actually understand 'why' we did certain things. Main thing is- slow down so people have time to actually understand the subtleties and depth of this beautiful subject.
	I think more spongebob references is the way to go.
	None
	I'd just ask for the slides to be accesible also outside of lectures. Perhaps the hardest problem on each weeks problem sheet has a video going through it? I just think it would be helpful as just reading the solution can be difficult and hearing the thought process through answering the question would be helpful for exams.
	When re-introducing equations it would be helpful to make a brief comment about where they came from. I found it hard to keep track of all the equations and it would be helpful if I could find the key equations in one place to refer back to.
	Sometimes I couldn't distinguish between kappas and ks in the written notes- though it was easy to go back and find out which was which.
	Some more exercises/ questions each week
	I appreciate that it is a 15 CAT module but I personally felt that there was maybe a bit too much to cover in one week.
	Not much, I thought the lecturer was very good and covered all content adequately and in good depth
	I think including more example calculations as part of the lectures/notes may have helped solidify my understanding a bit better.

Total responses to question	14/29

20 Any other comments:

Respondent	Response
	Following on from my previous comment, I think the current notes are fine and they can be amended instead of completely replaced next year (unless you have to rewrite them each year with no choice - I'm not sure). You can build on the topics and make them as clear as possible. If you have to rewrite next years notes, then keep these ones as a copy that students can readily access. Thank you overall for a very interesting course.
	Thank you!
	Keep up the great work and the charisma that the lecturer had throughout the lectures and the live events. Thank you very much.
	Interesting and enjoyable module, thank you!

Respondent	Response
	N/A
	Thank you very much for teaching us this course, I loved it and made me choose on my PhD choice as I'm going into CMP with the HetSys programme 😊
	Thank you for the great module!
	Thank you so much!!
	Thanks very much, really enjoyed the module
	I would like to say a huge thank you to Rachel for her infectious happiness and enthusiasm in such an unfortunate time. Rachel's teaching was arguably some of the best I have received during my time at Warwick, so thank you.
Total responses to question	10/29