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%	90%	38
50-80%	5%	2
<50%	5%	2
Total responses to question	100%	42/42

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

Response	Average	Total
All	21%	9
Most	43%	18
Some	31%	13
None	5%	2
Total responses to question	100%	42/42

3 The quantity of material was...

Response	Average	Total
About right	71%	29
Too great	29%	12
Total responses to question	98%	41/42

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

Response	Average	Total
Clear	71%	30
Hazy	26%	11
Unclear	2%	1

Response	Average	Total
Total responses to question	100%	42/42

5   Explanation of new terms and concepts was...

Response	Average	Total
Good	36%	15
Adequate	52%	22
Poor	12%	5
Total responses to question	100%	42/42

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

Response	Average	Total
Good	38%	16
Adequate	50%	21
Poor	12%	5
Total responses to question	100%	42/42

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

Response	Average	Total
<40%	19%	8
40-50%	31%	13
>80%	50%	21
Total responses to question	100%	42/42

8   The examples sheet questions were...

Response	Average	Total
About Right	97%	34
Too Hard	3%	1
Total responses to question	83%	35/42

9   Promptness of feedback on submitted coursework was...

Response	Average	Total
Good	72%	26
Adequate	28%	10
Total responses to question	86%	36/42

10 Would you like a course taking this subject further ?

Response	Average	Total
Yes	44%	18
Neutral	39%	16
No	17%	7
Total responses to question	98%	41/42

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

Response	Average	Total
Yes – purchased	22%	9
Yes – consulted	17%	7
No	61%	25
Total responses to question	98%	41/42

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

Response	Average	Total
Very Helpful	5%	2
Helpful	20%	8
Unhelpful	10%	4
I did not use a textbook	65%	26
Total responses to question	95%	40/42

I understood the following main topics

13 Vectors

Response	Average	Total

Response	Average	Total
First time through online lectures or notes	20%	8
After more work	73%	30
Poorly	7%	3
Total responses to question	98%	41/42

14   Complex numbers

Response	Average	Total
First time through online lectures or notes	56%	23
After more work	44%	18
Total responses to question	98%	41/42

15   Differential equations

Response	Average	Total
First time through online lectures or notes	45%	18
After more work	50%	20
Poorly	5%	2
Total responses to question	95%	40/42

16   Series Taylor exansions

Response	Average	Total
First time through online lectures or notes	29%	12
After more work	62%	26
Poorly	10%	4
Total responses to question	100%	42/42

17   Partial differentiation

Response	Average	Total
First time through online lectures or notes	62%	26
After more work	38%	16

Response	Average	Total
Total responses to question	100%	42/42

18 Gradient of a scalar function

Response	Average	Total
First time through online lectures or notes	24%	10
After more work	60%	25
Poorly	17%	7
Total responses to question	100%	42/42

19 The best features of this module were:

Respondent	Response
	perfect work of lecturer and high efficiency of the tutor
	Partial differentiation was the most enjoyable topic
	The online quizzes helped a lot with understanding
	The problem sheets were mostly accessible and felt like they were set with a good level of difficulty
	Partial differential equations are satisfying. Learning about the gradient function.
	Online quiz, quick way to crudely check understanding
	Going through example questions after explaining new concepts was very helpful. I learn best when taught information then shown how to apply it.
	easy to follow examples
	- It was really helpful when you did worked examples, as it allowed me to link the formulae to actual problems. - The typed notes are well presented and easy to follow, only comment is that it would be nice if formulae stood out a bit more. - The hints you get in the online quizzes are helpful for telling me what I'm supposed to be doing when I got an answer wrong.
	It was good.
	The thoroughness of the proofs that were demonstrated.
	Moodle quizzes really helped with my understanding of the subjects.
	The professor's willingness to answer my questions and put in the time and effort to make sure I understand.
	Complex numbers
	Going through a range of examples of different difficulties and applications of the content in the recorded lectures. Proofs of the new content being fairly clear follow. Applications of mathematics were explained and related well to areas of physics to help understand the relevance.
	Clear concise explanations.

Respondent	Response
	I enjoyed the online questions work even if the programme can be broken at times. The written notes we're well done and it allowed me to understand concepts that I didn't understand very well when it was done in the lectures or online sessions.
	Lots of practise questions available
	Examples worked through during the lectures were great. Anyone who finds them unnecessary can skip past them and anyone who finds them useful can spend a few minutes watching them, so it's perfect.
	Consiceness, examples with visual/graphical explainations/meaning
	the problem classes for it

Total responses to question	21/42

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

Respondent	Response
	More guidance/explanation about logic new terms used.
	working out of the answers to quizzes need to be shown after its been submitted
	It would have been nicer I think if some of the lectures were split into smaller chunks as this makes it much easier to engage with compared to one long lecture, but I appreciate that this may be hard to do
	Maybe include exam based questions in the lecture videos. The examples are fine but when it comes to the exam questions they are generally much harder.
	It is hard to tell which parts of the proofs we need to know and which are just to help our understanding. Unsure which formulae we need to memorise and which we do not.
	The lectures were too fast paced at points, when simplifying things such as algebra equations, I felt the jump between steps was too great. For example, "this should be obvious" was said a lot when it wasn't obvious and I had no idea how to get from step 1 to step 2.
	more engaging
	- The online quizzes would be better if the questions were organised in terms of increasing difficulty, sometimes the hardest (usually application based) questions were near the start. - It would have been helpful to have a detailed explanation of matrixes before they were used in the vectors lectures, (maybe a video like the partial differentiation one at the start of the course) so I could understand what was going on, as I did not do further maths).
	Sometimes I felt like the questions set in the problems sheet and especially on the online quizzes were unnecessarily difficult and in places that didn't really asses our knowledge on the subject. For example giving an extremely long equation to differentiate so as we are very prone to making mistakes and getting the wrong answer, despite fully understanding the topic at hand.
	Explaining a couple of concepts slightly more clearly by taking more time to word it out slowly and using simpler language.
	Some steps were skipped when explaining how to do something as lecturer assumed it was obvious - maybe go through these even if they are obvious? Show more how the maths we're learning links into physics concepts.

Respondent	Response
	Some jumps in the proofs made it difficult to follow or understand at times so the steps should be isolated and identified more clearly.
	Go through a few more examples within the lectures, it helps to be told verbally how to solve a particular example.
	I would have liked the online questions to be accessible before the online session so i know if i can do the content and get it right so i know if i need any help with a misunderstanding as the ability to get an instant answer if you've got the answer right and what you should have done is useful. The lectures i found hard to sit through and keep constant concentration when it was just content when there was an example however i caused me to tune back in and realise if i had taken the information in or not.
	-General content across the course was so great that it is hard to find time to do further practise and consolidate new knowledge each week. -Some explanations were seemingly given under the assumption that everyone had taken further maths which was sometimes confusing (as I have not taken further maths).
	I (and a lot of other people I think) found there to be a lot of times where it was said "hopefully you can see how I did this" or "hopefully this is easy for you" or something along those lines when it was actually not immediately clear - even if it's an incredibly brief description of what was happening, that would be useful because sometimes it seems like a step was just skipped and no one who is talking about it knows the answer.
	The onine lectures tended to be long so splitting them into more videos would be helpful

Total responses to question	17/42

21   Any other comments:

Respondent	Response
	Often found that the typed notes were more accessible and helpful than the lectures and I subsequently used these a lot more than the online lectures to make notes and answer the problem sheets. I will likely use these much more than lectures to revise from over the break as well. Thanks Neil!
	Collating the formulas used as a summary video at the end of the course would be very useful.
	- I did not do further maths, so the first few weeks were harder, but I was fine after about week five with the new maths content. - Thank you for teaching the module.
	N/A
	Be in person

Total responses to question	5/42