Responses: **75**

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%	74%	53
50-80%	19%	14
<50%	7%	5
Total responses to question	96%	72/75

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

Response	Average	Total
All	17%	12

Response	Average	Total
Most	39%	28
Some	36%	26
None	8%	6
Total responses to question	96%	72/75

3 The quantity of material was...

Response	Average	Total
About right	58%	42
Too great	40%	29
Too little	1%	1
Total responses to question	96%	72/75

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

Response	Average	Total

Response	Average	Total
Clear	81%	56
Hazy	19%	13
Total responses to question	92%	69/75

5 Explanation of new terms and concepts was...

Response	Average	Total
Good	65%	47
Adequate	35%	25
Total responses to question	96%	72/75

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

Response	Average	Total
Good	59%	41
Adequate	34%	24

Response	Average	Total
Poor	7%	5
Total responses to question	93%	70/75

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

Response	Average	Total
<40%	28%	19
40-50%	28%	19
>80%	43%	29
Total responses to question	89%	67/75

8 The examples sheet questions were...

Response	Average	Total
About Right	90%	53
Too Hard	10%	6

Response	Average	Total
Total responses to question	79%	59/75

9 Promptness of feedback on submitted coursework was...

Response	Average	Total
Good	69%	37
Adequate	28%	15
Poor	4%	2
Total responses to question	72%	54/75

10 Would you like a course taking this subject further ?

Response	Average	Total
Yes	48%	33
Neutral	46%	32
No	6%	4

Response	Average	Total
Total responses to question	92%	69/75

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

Response	Average	Total
Yes - purchased	12%	8
Yes - consulted	48%	32
No	39%	26
Total responses to question	88%	66/75

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

Response	Average	Total
Very Helpful	7%	5
Helpful	47%	32
Unhelpful	1%	1

Response	Average	Total
I did not use a textbook	44%	30
Total responses to question	91%	68/75

I understood the following main topics

13 Newton's laws of motion

Response	Average	Total
First time through online lectures or notes	87%	61
After more work	13%	9
Total responses to question	93%	70/75

14 Concepts of work and energy

Response	Average	Total
First time through online lectures or notes	74%	52
After more work	26%	18

Response	Average	Total
Total responses to question	93%	70/75

15 Angular momentum, circular motion

Response	Average	Total
First time through online lectures or notes	15%	10
After more work	75%	51
Poorly	10%	7
Total responses to question	91%	68/75

16 The Lorentz transformations, time dilation etc.

Response	Average	Total
First time through online lectures or notes	16%	11
After more work	65%	45
Poorly	19%	13

Response	Average	Total
Total responses to question	92%	69/75

17 Energy and mass relation

Response	Average	Total
First time through online lectures or notes	24%	16
After more work	66%	44
Poorly	10%	7
Total responses to question	89%	67/75

18 The best features of this module were:

Respondent	Response
	Tom Marsh making it significantly more fun with outfits, demos, and props in lectures. He also just engages with us in a more interactive way on live lectures. Special relativity!! Fun all around - especially the whacky thought experiments and the Star Trek lingo making you feel like all those Sci-Fi movies are a little more real!
	special relativity

Respondent	Response
	Perfect lecturing and extremely good tuition
	Special relativity was much more interesting than the rest of the module
	The experimental demonstrations and Tom's YouTuber findings.
	Clearly defined sections and sub-sections. Great demonstrations. Lecturer was enjoyable to watch and made me actively want to watch his videos!
	To a certain extent, the module got progressively more interesting the further through you got. Some of the later modules were genuinely quite interesting, all be it hard
	Thomas marsh
	The lectures explained the concepts well
	Lorentz transformations and special relativity stood out compared to the the rest of the topics explored in the module. It was a concept I had never encountered before which is why I enjoy it the most.
	Tom Marsh's demonstrations and videos he attached as well as the pacing of the lectures. The lecture notes were all very concise and helpful.
	Tom Marsh is very good at incorporating intuition into his solutions and explanations. This is massively preferable to the approach of other physics teachers I have encountered, who often opt for "plug it into the equations and it works". I also very much appreciated Tom's attempts to demonstrate conservation of angular momentum from within his own office.

Respondent	Response
	good set of notes funny live lessons
	Amazing lecturer
	- Mastering physics is very useful as a tool to be able to understand and practice problems in a "lower stress" environment as you only lost small amounts of credit for each incorrect answer and you also got hints. - I enjoyed the start of the special relativity topic with all the experiments into the "The Luminiferous Aether". It helped me understand the scientific background behind the topic.
	Content was made fun and engaging to learn. Clear and concise typed notes and I enjoyed seeing how things outside of the specification also related. Examples and demonstrations were also great to see, and made online lectures super engaging.
	The special relativity topic was very interesting, and I also thoroughly enjoyed the demos in the circular motion topic.
	The demonstrations of angular momentum.
	The live events going through problems and examples.
	The professor is very patient and takes the time to answer a lot of my questions (and other students' questions), and I benefit a lot from his answers. The content is very interesting.
	The special relativity part. Although more abstract and counterintuitive, it was for me by far the most interesting topic covered in the module.
	Examples to show laws or concepts

Respondent	Response
	The clear and concise descriptions of new concepts, and the support that was there if needed.
	Relativity
	I enjoyed the concepts explored in the lectures and enjoy doing problems.
	Very useful live sessions working through many interesting questions and quizzes. Very clear proofs that were very easy to follow and made sense throughout. Thought-provoking problem sheets Very difficult and strange concepts are explained very well with a lot of reasoning.
	Very clear explanations.
	The lecturer, Professor Tom Marsh
	The questions were very interesting and different it caused me to think about how to apply the lecture content rather than regurgitating it to answer a set of questions. The written notes were also well done and allowed me to understand the content by a basic amount through a quick read if i hadn't watched all the lectures and allowed me to fill any misunderstandings.
	Good lecture notes
	Mostly clear detailed explanations. Thorough notes
	Tom Marsh
	The clarity of the online lectures and all the materials provided in general

Respondent	Response
	Professor Marsh was the best part of this module
	The Lorentz transformations work was good
	The new concepts; torque, angular momentum and special relativity
	The use of problem sheets to practice techniques with exam questions
	Tom Marsh
Total responses to question	38/75

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

Respondent	Response
	I couldn't cope with the way the content was delivered (through loads of long videos) and the Q&A as the only live lecture was unhelpful too. If we had one live lecture with delivering content and another Q&A then it would be better. It was just too unstructured for me as a first year just getting used to university for the first time.
	just the pace of the content being covered was pretty fast and a lot sometimes
	I felt like I was trying too learn too much, too quickly.

Respondent	Response
	Some summary videos for the end of the term would be nice for revision.
	Possible some more clarity on some of the harder elements of the module, would only need a minute or 2 to break some parts down into more understandable parts
	Would have prefered worked examples
	Videos longer than 40 minutes are very draining to watch. Given the recommended time frame to watch these lecture videos, I would prefer if a 40 minute video was split into 2 20 minute videos as they are less daunting.
	As soon as you fall behind, the live sessions become completely useless. This isn't very helpful for motivating people to stay caught up, and it would be nice if the live sessions were of some use to people who were perhaps a week or 2 behind. Notation also seemed clunky at times, for example when we were working with 3 frames of reference and used t, t', and t'' for the times in each of them.
	making the classical mechanics more exciting
	In-person teaching
	- It would have been nice to have more worked examples for the special relativity part of the course as I found it challenging sometimes to know where to begin on a question (which formulae to use). PX145 had additional .pdf's of worked examples to accompany each week. - It would be nice to have some introductory easier questions within the problem sheets to "get me in the mood". - I found the "circular motion" part of the course to be particularly challenging, some more time with this bit of the course would be good, especially rolling objects (6.13) as there was only one video on the topic and it came up a lot in problem sheets and mastering physics. - More recap of topics from A-level would be nice, as I did not cover all the topics at A-Level (this probably will only be an issue for our year hopefully).

Respondent	Response
	I thought that sometimes you went through a derivation in a lot of detail which made the lecture videos longer with information that didn't seem too necessary - I may be wrong though; the added depth of understanding could prove useful in the future.
	At the start, writing slightly faster and cutting out some stuff that isn't needed, as the lectures ended up taking a lot of time.
	The pace of content delivery was too slow, in terms of the video lengths. It is frustrating and unnecessary to watch full sentences being written on the paper during the videos (especially since typed notes were also provided) as it slows things down a lot - either using slides, or less words/more shorthand and abbreviations when writing would have sped things up and made the videos less tedious to watch. Also, it would be nice to have more content delivered live (in general, and not just for this module). Pre-recorded content just doesn't have the same feeling as live lectures and it isn't what we signed up for - I don't like feeling like I'm paying for a glorified YouTube channel subscription, it would be nice if more live events took place instead of pre-recording everything ☹
	Maybe it's more so the schedule, but it's very overwhelming learning all this new content (from week 6 onwards) and not having enough time to consolidate this new knowledge. Perhaps giving more time to consolidate this information (our schedule doesn't allow us to because we have many other tasks due for other modules as well, especially the labs) would be helpful.
	The whole timetabling for the module was a bit weird. We only one meeting a week on Wednesday which was a Q&A (very good by the way) covering the material from the same week. It became impossible to watch the video material (between 150 and 210 mins) before Wednesday's live session.
	Should define notation and symbols more.
	More on going through exam questions

Respondent	Response
	There is a lot of videos to watch for both modules in physics as well as attending the live sessions and any problems classes/tutorials for physics so, all in all, it's a bit much to keep on top of, especially since I have maths modules to do too. I also find it difficult to understand what's being said in the live lectures because it depends on you having watched all the videos for that week by Wednesday, which I don't have the time for.
	Some of the problem sheet problems were unclear in what they wanted the answer in terms of or what they wanted us to find out. Mastering physics problems were too easy compared to the problem sheets so not always that useful.
	The lectures at times i found hard to watch and lost concentration easily i found them to be too long for the amount of useful content they were covering.
	-Some problem sheets seemed very difficult compared to what had been taught and took very long.
	Weekly workload can be quite inconsistent, which makes creating and adhering to a schedule somewhat difficult
	There is a lot of material some week, which probably can not be avoided but it is overwhealming at times.
	I found the explanations of some of the Angular momentum concepts a bit unclear
	Too much time spent covering A level material (the majority of the classical mechanics concept)
	In person as it would be a lot easier to follow but obviously this wasn't possible this term.
Total responses to question	27/75

20 Any other comments:

Respondent	Response
	Thomas' calm and friendly nature was what helped me get through this module.
	Really enjoyed the course.
	Module started off quite easy but not the most exciting, but got onto much more interesting topics later on that were quite enjoyable to work through. Thank you Tom!
	- The skit in the last video of the module was great. - Thank you for teaching this module
	Thanks, this module was most enjoyable and made the hardships of online learning much more bearable.
	N/A
	I enjoy the modules, although there are slight tweaks which could be implemented it was a very good module overall.
	Be in person
	N/A
	No
Total responses to question	10/75