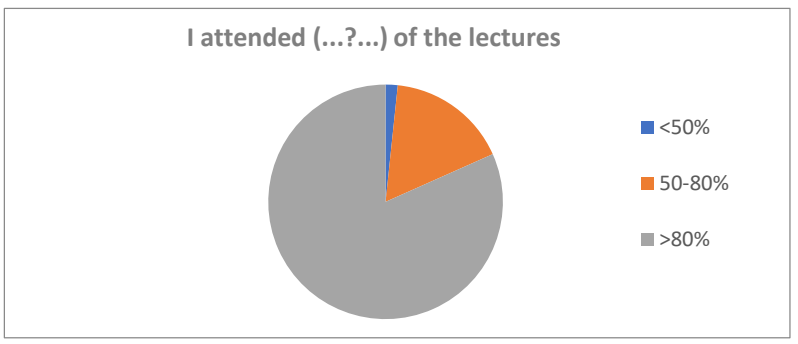
Survey Summary

PX120 Feedback 2022	
No. of Participants	60
Total no. of students	269
Survey Started	13 Mar 2022 20:46:06 GMT
Survey Ended	21 May 2022 09:53:42 BST

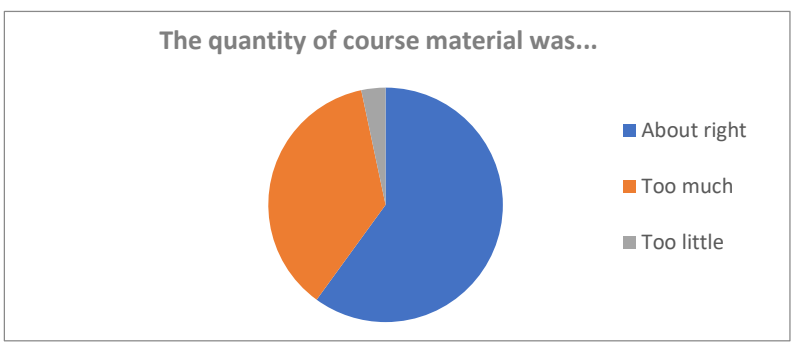
I attended (...?...) of the lectures

Description	Responses	%
<50%	1	1.67
50-80%	10	16.67
>80%	49	81.67
Total	60	



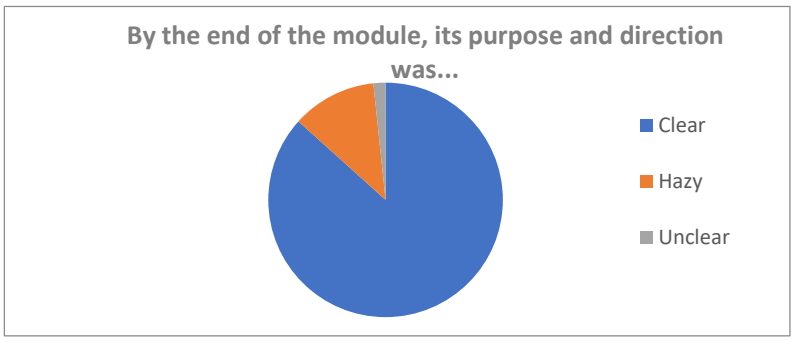
The quantity of course material was...

Description	Responses	%
About right	36	60.00
Too much	22	36.67
Too little	2	3.33
Total	60	



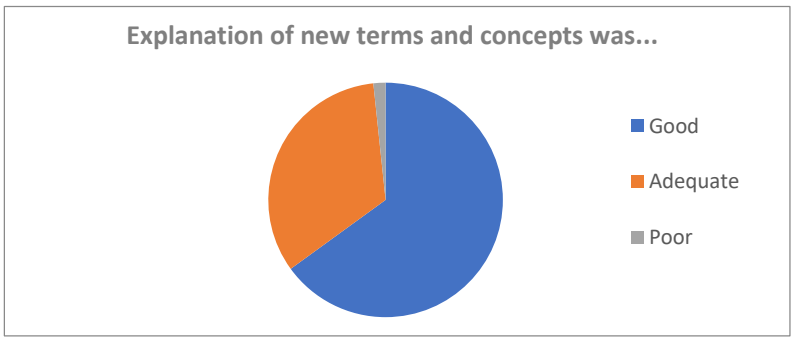
By the end of the module, its purpose and direction was...

Description	Responses	%
Clear	52	86.67
Hazy	7	11.67
Unclear	1	1.67
Total	60	



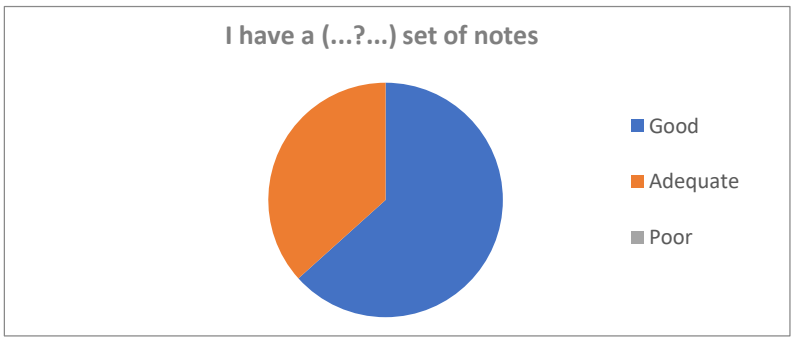
Explanation of new terms and concepts was...

Description	Responses	%
Good	39	65.00
Adequate	20	33.33
Poor	1	1.67
Total	60	



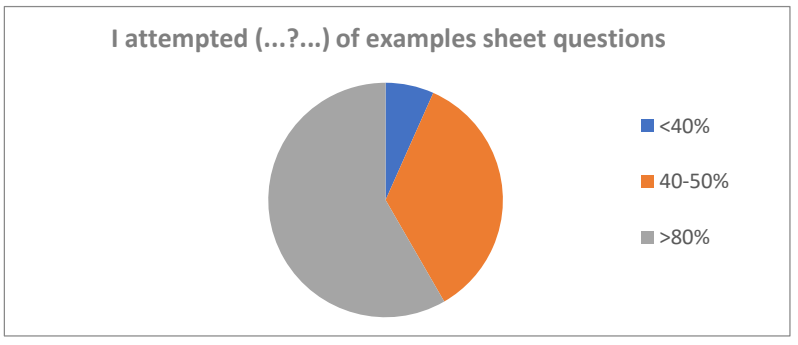
I have a (...?...) set of notes

Description	Responses	%
Good	38	63.33
Adequate	22	36.67
Poor	0	0.00
Total	60	



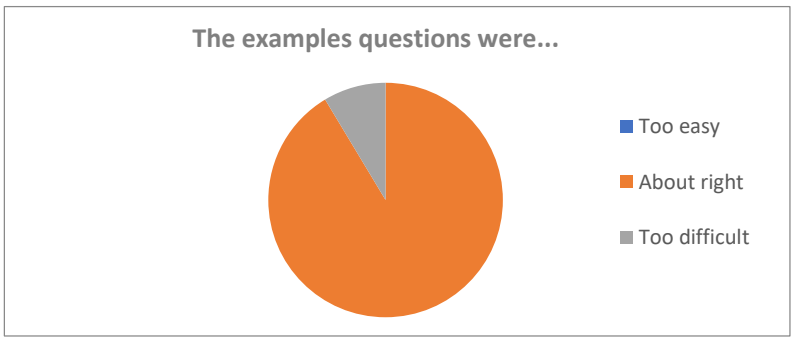
I attempted (...?...) of examples sheet questions

Description	Responses	%
<40%	4	6.67
40-50%	21	35.00
>80%	35	58.33
Total	60	



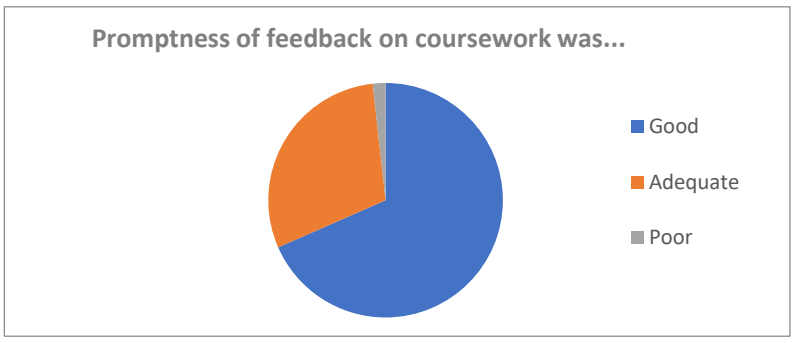
The examples questions were...

Description	Responses	%
Too easy	0	0.00
About right	53	91.38
Too difficult	5	8.62
Total	58	



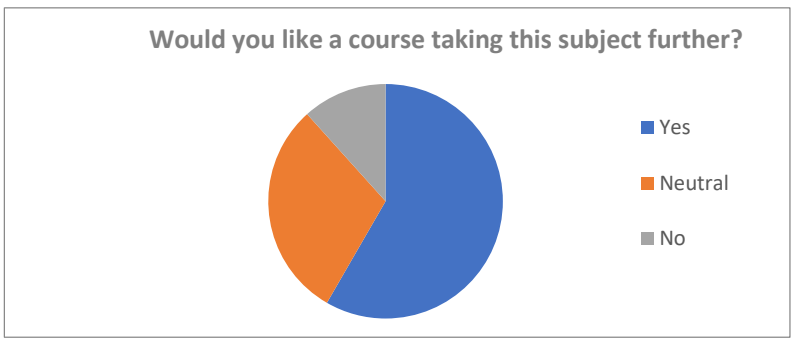
Promptness of feedback on coursework was...

Description	Responses		%
Good		39	68.42
Adequate		17	29.82
Poor		1	1.75
Total		57	



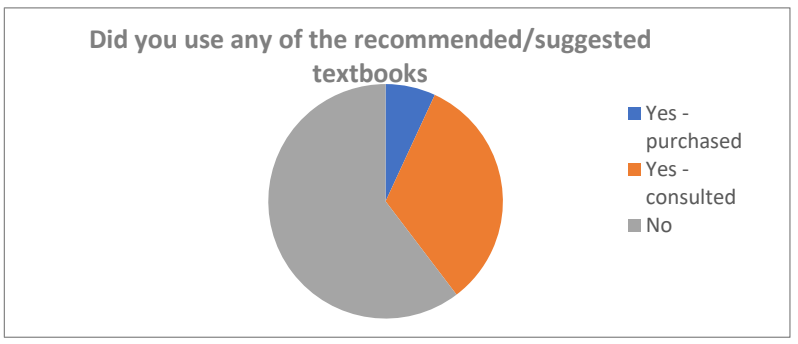
Would you like a course taking this subject further?

Description	Responses		%
Yes		35	58.33
Neutral		18	30.00
No		7	11.67
Total		60	



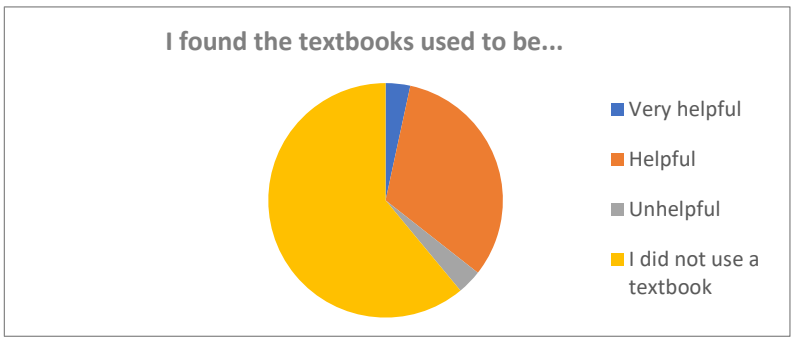
Did you use any of the recommended/suggested textbooks

Description	Responses		%
Yes - purchased		4	6.90
Yes - consulted		19	32.76
No		35	60.34
Total		58	



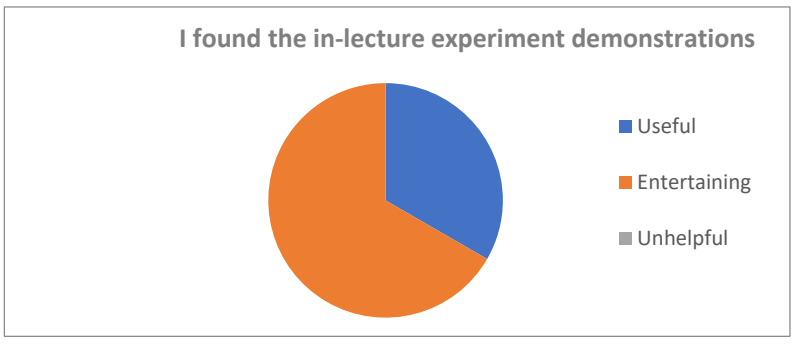
I found the textbooks used to be...

Description	Responses		%
Very helpful		2	3.39
Helpful		19	32.20
Unhelpful		2	3.39
I did not use a textbook		36	61.02
Total		59	



I found the in-lecture experiment demonstrations

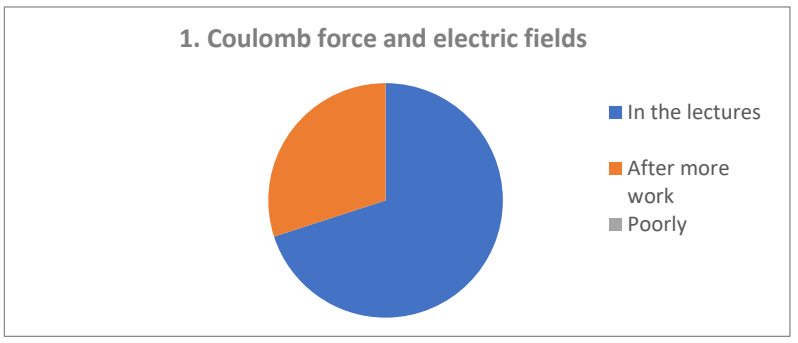
Description	Responses		%
Useful		20	33.33
Entertaining		40	66.67
Unhelpful		0	0.00
Total		60	



I understood the following main topics…

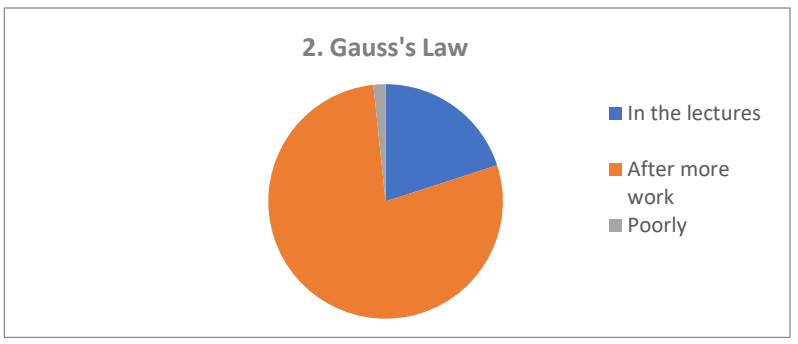
1. Coulomb force and electric fields

Description	Responses		%
In the lectures		42	70.00
After more work		18	30.00
Poorly		0	0.00
Total		60	



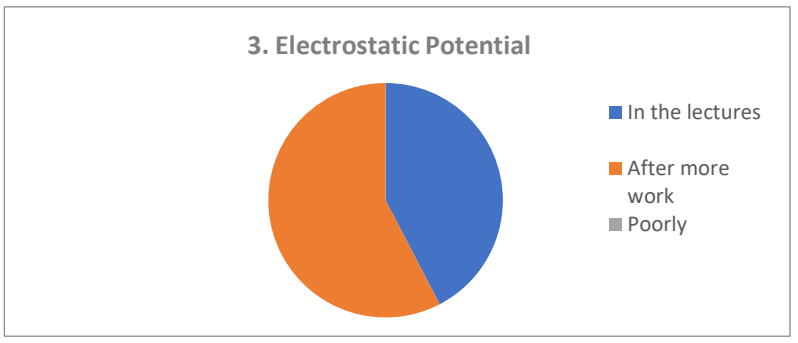
2. Gauss's Law

Description	Responses		%
In the lectures		12	20.00
After more work		47	78.33
Poorly		1	1.67
Total		60	



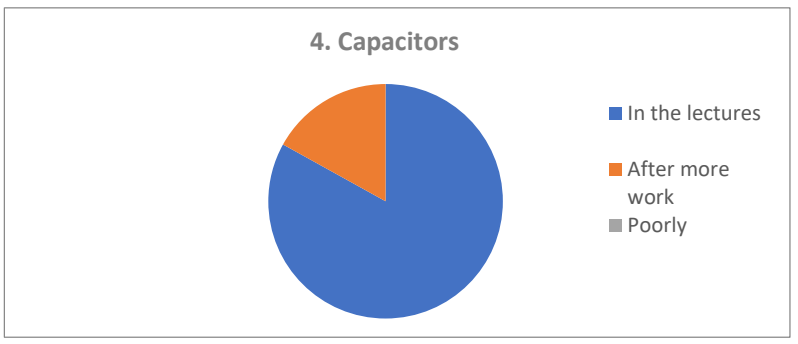
3. Electrostatic Potential

Description	Responses		%
In the lectures		25	42.37
After more work		34	57.63
Poorly		0	0.00
Total		59	



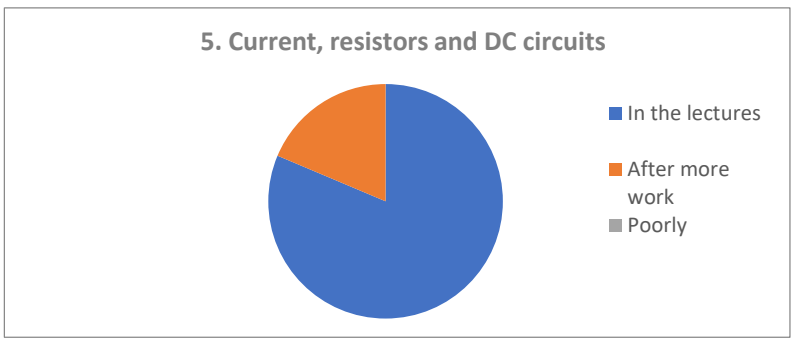
4. Capacitors

Description	Responses		%
In the lectures		49	83.05
After more work		10	16.95
Poorly		0	0.00
Total		59	



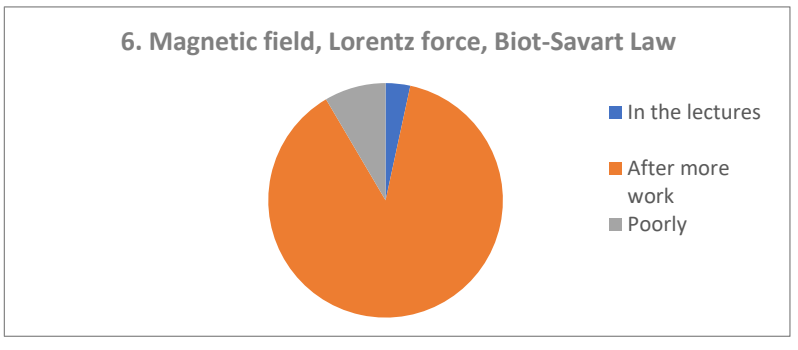
5. Current, resistors and DC circuits

Description	Responses		%
In the lectures		48	81.36
After more work		11	18.64
Poorly		0	0.00
Total		59	



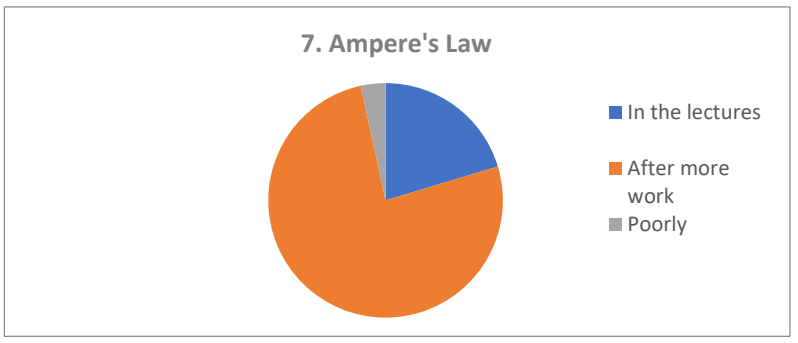
6. Magnetic field, Lorentz force, Biot-Savart Law

Description	Responses		%
In the lectures		2	3.39
After more work		52	88.14
Poorly		5	8.47
Total		59	



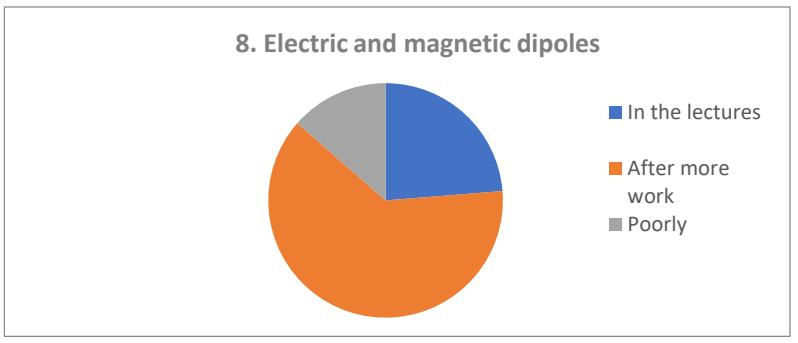
7. Ampere's Law

Description	Responses		%
In the lectures		12	20.34
After more work		45	76.27
Poorly		2	3.39
Total		59	



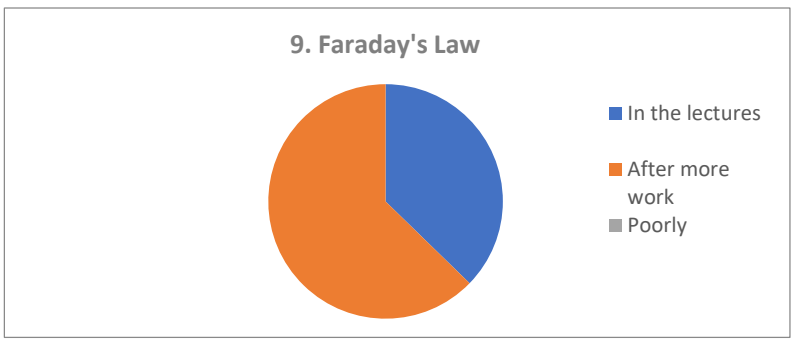
8. Electric and magnetic dipoles

Description	Responses		%
In the lectures		14	23.73
After more work		37	62.71
Poorly		8	13.56
Total		59	



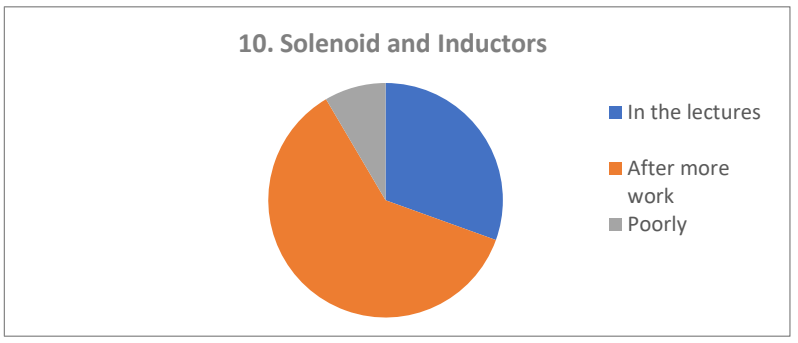
9. Faraday's Law

Description	Responses		%
In the lectures		22	37.29
After more work		37	62.71
Poorly		0	0.00
Total		59	



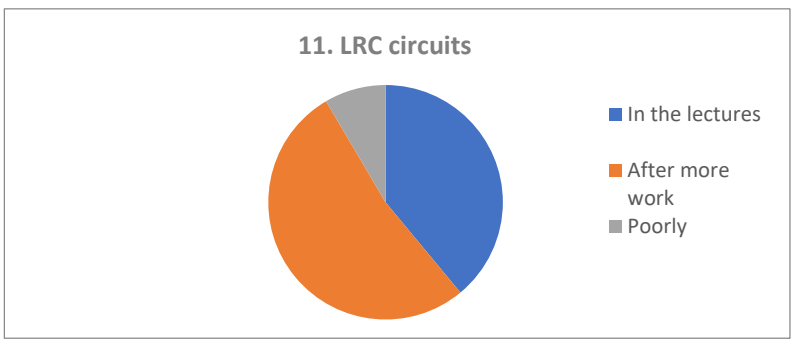
10. Solenoid and Inductors

Description	Responses		%
In the lectures		18	30.51
After more work		36	61.02
Poorly		5	8.47
Total		59	



11. LRC circuits

Description	Responses		%
In the lectures		23	38.98
After more work		31	52.54
Poorly		5	8.47
Total		59	



The best features of this module were:

Participants: 37

Comments:

the demonstrations
course notes are very clear, I look forward to referring to these during my revision. Erwin's enthusiasm and demonstrations made the course more engaging and linked the physics to practical relevance
Demonstrations and course notes
The demonstrations
They were engaging.
Learning about a key feature of physics in a fun and intuitive way
Demonstrations, erwin
The lecturer kept things interesting throughout the module.
'-Demosntrations-Very good explanations-Excellent set of online notes
Usually clear and stepwise explanations, lecturer has good fashion sense
The lectures were very clear and covered all necessary content. The lecture notes are also very good.
Seeing how the difficult maths and physics come together.
Erwin's jumpers
The explanations and diagrams were clear.
Professor Verwichte is a phenomenal lecturer. I appreciate his liberal use of examples and him going through every step of a particular problem at the right level of detail. He has a brilliant personality and makes lectures very entertaining
Erwin's anecdotes
in depth lecture notes with clear explanations and detailed diagrams
The teaching was good and informative, with occasional enjoyable tangents and demonstrations.
The lecturer was very efficient at getting through the content and explaining it well
Dr Erwin Verwichte
I don't enjoy E&M as a subject, but I felt that the course content was communicated well and I understood it better than ever before.
erwin
The lecturer and the content
Erwin <3
Covering in detail in important area of physics
Erwin
Clear and concise exlanations by the lecturer, content not too difficult
The demonstrations in the lectures
The similarities between the online work and the problem sheets was very helpful.
- The typed notes are excellent, clearly a lot of effort has gone into making them and it shows. Granted this is my 1st year but these are the best resource I have seen so far. - I liked the demonstrations in the lecture, it was nice to see the physics we were learning in action.
- Even though it wasn't a maths course, this module helped to develop my understanding and ability at vectors and line/surface integrals.
Erwin was very entertaining and the Picasso reference for LRC circuits was amazing. He also did well as explaining concepts clearly
Very good explanations, can explain in different ways, connections to real life, engaging
- Erwin Verwichte is a fantastic lecturer and is good at explaining concepts and keeping the lectures interesting. - Excellent set of typed notes
I liked the demonstrations done in the lectures, it helped my understanding of the theory.
Some of it was interesting at time and you could see the use of it in real life
I don't know the module was done rather well so nothing stands out in particular
Lectures were engaging, easy to pay attention to.

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

Participants: 29

Comments:

Too much content in this lecture that was covered too quickly
a bit too much content times (eg. Do we need to know all of the derivations etc)
Go though intro math a little more
The speed of lectures was very high. More time on the harder concepts would have been helpful.
I think maybe there could've been a bit more focus on some of the more challenging concepts
Sometimes the pace felt a bit fast, like we were moving on from a topic even tho I didn't fully understand it
More examples of solving problems, either in the lectures or via prerecorded videos on Moodle would be helpful.
I would prefer if the electronic notes for each week were released as separate files instead of a cumulative file.
Some derivations e.g. electric dipole moved quite fast; in lecture writing was sometimes quite lean as compared to context given by speaking

Sometimes the lecturer's responses to answers in lectures were slightly curt
Diagrams can become difficult to draw
There was a lot of content for the module and a lot of knowledge was assumed and had time to be recapped in the lectures.
Less focus on derivations during lectures and more focus on explaining the fundamental concepts. I don’t gain anything from watching the lecturer write out a ten-minute derivation and blindly copying it out. The derivations can easily be looked over in free time so the lectures can be dedicated to actual explanation and teaching.
The many examples were helpful overall, but somewhat dry in their frequency and presentations.
Better mathematical treatment, particularly with integrals and coordinate systems.
Sometimes writing on the screen goes too fast when also trying to write what is being said and draw diagrams. Also sometimes the problem sheet content didn’t line up with what was being taught in lectures- so, would be before we learned it or after
Perhaps including more examples
don't know
The content is covered well but at a very fast pace where it is impossible to make notes on all of the content while having time to understand what the lecturer is saying. There needs to be time left for students to finish writing down notes before the lecturer moves on.
Some of the content seemed like it was not very useful
Lecturer should slow down at points to allow people to take notes and listen
Some of the content went a little quickly and quite a lot of knowledge was assumed (eg line integrals, surface integrals and volume integrals) without that being taught when there was clearly enough lecture time to give an in person explanation.
- I am aware this has been raised at SSLC and hasn't changed but lecture capture being deleted after 2 weeks is unfair on students. It hasn't even been consistent (as of writing on 17th Mar lectures from 7th Feb are available, only first 12 are gone). So consider not deleting them.
The amount/importance of maths is unclear, there is maths which is technically examinable which surpasses PX149 but past exam papers seem devoid of this sort of maths, purpose of maths is therefore unclear. '- Explanation of energy density of electric fields was unclear, I don't see how electric fields which at the start of module we were told don't actually exist can store energy.
- Some of the mastering physics questions were poor and, particularly at the start of the module, were on content we hadn't covered. I think this was a result of the 1st lecture being cancelled, so the teaching was offset by 1 lecture. - Again aware this has been raised at SSLC, but the mastering physics + problem sheets not counting for this module is silly. I understand that department says they don't have resources for maths students to do problem classes, but my problem classes had attendance of like 40%, I know some have like 4 people attend. So surely there is the capacity to take on maths students? Having coursework count for this module may motivate more people to try harder on coursework, as no one is scared of failing PX146.
May be a bit too fast at times
- Minor Nit-pick: please can you include a contents page in the typed notes throughout the module and not just in the final document, I found it quite hard to navigate to the content I wanted, especially during later weeks. -The module has too much content, there is a lot to remember.
Felt that the pace of some of the content wasn't manageable and for the harder bits this made it nearly impossible to keep up. Felt like erwin assumed we'd know much more than it would be realistic to expect at times and subsequently breezed over really hard topics
N/A
Too much content and the maths is extremely difficult.

Any other comments:

Participants:	15

Comments:
Thank you Erwin - favourite lecturer to date
none
Overall a very nice module. I enjoyed it :)
N/a
Cheers Erwin
N/A
Best module of the year
The module was overall very informative and functional.
I hope the lectures are put back up for revision purposes when we reach exams- written notes are all good but personally I understand better using auditory means, such as the lectures, and I would prefer to hear the content from Prof. Verwichte than look it up on YouTube and potentially get it wrong.
No
N/A
I liked the websites and articles that were linked each week on the Moodle page.
'- Thank you for teaching the module
Thanks Erwin
N/A