




Responses: 5




## PX447 - Module Feedback

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 attended (...?...) of the Lectures

Response	Average	Total
50-80%	 40%	2
>80%	 60%	3
Total responses to question	 100%	5/5





2 The quantity of course material was...

Response	Average	Total
About right	 40%	2
Too great	 60%	3
Total responses to question	 100%	5/5

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

Response	Average	Total
Clear	 60%	3
Hazy	 40%	2
Total responses to question	 100%	5/5

4 Explanation of new terms and concepts was...

Response	Average	Total
Good	 20%	1
Adequate	 40%	2
Poor	 40%	2
Total responses to question	 100%	5/5

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

[At](#)

Response	Average	Total
Good	25%	1
Adequate	75%	3
Total responses to question	80%	4/5

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

Response	Average	Total
40-50%	80%	4
>80%	20%	1
Total responses to question	100%	5/5

7 The examples sheet questions were...

Response	Average	Total
Too Hard	100%	5
Total responses to question	100%	5/5

8 Promptness of feedback on submitted coursework was...


Response	Average	Total
Adequate	100%	1
Total responses to question	20%	1/5

9 Would you like a course taking this subject further ?

Response	Average	Total
Yes	40%	2
Neutral	40%	2
No	20%	1
Total responses to question	100%	5/5




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

Response	Average	Total
Yes - consulted	50%	2





Response	Average	Total
No	 50%	2

Total responses to question  80% 4/5




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

Response	Average	Total
Helpful	 50%	2
I did not use a textbook	 50%	2
Total responses to question	 80%	4/5





12 I found the weekly reflection exercise to be...

Response	Average	Total
Helpful	 40%	2
Unhelpful	 20%	1
Did not undertake	 40%	2
Total responses to question	 100%	5/5

13 I found the lecture notes to be...





Response	Average	Total
Very Helpful	 40%	2
Helpful	 60%	3
Total responses to question	 100%	5/5

14 The Exercises and their solutions helped me understand the material





Response	Average	Total
Substantially	 40%	2
Moderately	 40%	2
Marginally	 20%	1
Total responses to question	 100%	5/5

I understood the following main topics





## 15 Reversible classical computation

Response	Average	Total
In the lectures	 40%	2
After working on the Exercises	 40%	2
After more work	 20%	1
Total responses to question	 100%	5/5




## 16 Universal gates for quantum computation

Response	Average	Total
In the lectures	 20%	1
After working on the Exercises	 40%	2
After more work	 40%	2
Total responses to question	 100%	5/5



## 17 Quantum simulation


Response	Average	Total
In the lectures	 20%	1
After working on the Exercises	 60%	3
After more work	 20%	1
Total responses to question	 100%	5/5

## 18 Quantum search





Response	Average	Total
After working on the Exercises	 80%	4
After more work	 20%	1
Total responses to question	 100%	5/5

## 19 Quantum algorithm for solving linear equations






Response	Average	Total
After working on the Exercises	 80%	4
After more work	 20%	1

Response	Average	Total
Total responses to question	 100%	5/5

20 Quantum Fourier transform

Response	Average	Total
In the lectures	 20%	1
After working on the Exercises	 60%	3
After more work	 20%	1
Total responses to question	 100%	5/5

21 Quantum error correction

Response	Average	Total
In the lectures	 20%	1
After working on the Exercises	 40%	2
After more work	 20%	1
Poorly	 20%	1
Total responses to question	 100%	5/5

22 The best features of this module were:

Respondent	Response
	Quantum algorithms were well explained and exercises complemented material really well to gain a deep understanding on them.
	Engaging lecturing style and thorough typed-notes as well as lots of practice problems
	The regular opportunities to ask questions, and sketches of circuit diagrams and the Bloch sphere etc. helping to visualise concepts.
Total responses to question	3/5

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

Respondent	Response

**Respondent****Response**

While the concepts were well explained, the mathematical justifications are often glossed over in lectures. Solutions to exercises were often incomplete with many steps skipped and therefore learning the mathematical techniques was often much slower. This did encourage deep thinking, however it is difficult to commit that much time to one module. The section on quantum error correction was very rushed and the module finished in week 9. Spreading out the same content would have been more beneficial.

The explanation of new concepts is often not very clear and the prose used is quite hard to understand.

In some cases I thought it wasn't worth going through all the algebra during lectures - more efficient to jump to the answer and say to do it in the problems.

Speed of delivery was insanely fast. This certainly must be slowed down in future. One possible better use of time to actually write more things out in the lectures to ensure that everyone has the correct understanding before attempting the exercises and working through the proofs independently.

Total  
responses to  
question

4/5

24

Any other comments:

**Respondent****Response**

Overall one of the most interesting modules in my degree

The lecturer has a very impressive understanding of this whole subject area, and is also very talented at articulating his words when he answers questions and talks about general topics. The discussions regarding further and real-world applications were very motivating. If the speed of delivery over the technical details was reduced, this would be optimal.

Total  
responses to  
question

2/5