Imperial College
London

Lecturer Name: Professor Peter Cheung (1081)

Survey Name: SOLE UG Summer 2020

Electronics 1: Introduction to Electronic Circuits, Sensors, and Mechatronics (DESE40006)

Individual Lecturer Feedback (Professor Peter Cheung)

1) The lecturer explained the material well					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
27	13		1	1	

2) The lecturer generated interest and enthusiasm					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
29	12		1		

3) The lecturer was approachable					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
32	10				

4) Overall, I am satisfied with this lecturer					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
29	11	1			1

The following free text comments were received:

5) Please use this box to provide any additional constructive feedback to this lecturer:

- Peter was really enthusiastic in every class and he did such a great job preparing all the packages for the labs.
- Peter, you're amazing, thank you!
- Peter is willing to spend time to make sure everyone understands the content well. This method of teaching worked great with this module because it is not too excessive in content. It is also apparent that he cares a lot, with the fact that he is willing to go through the hassle of sending each student a lab kit, knowing that we are diverse in origins. It has clearly worked, as the module wouldn't be the same without the labs. The module also wouldn't be the same without Peter.
- Peter is dedicated and reactive. He doesn't leave anyone out, this is much appreciated!
- Peter always fixes our problems within a day! Thank you
- Professor Peter Cheung was very helpful, however a lot of content gathered up in a short time, did feel "in the background" with computing and design deadlines looming.
- Peter went above and beyond to organise the home lab kits this was truly an incredible undertaking and one that I am still amazed by. Incredible!
- Peter is one of the best lectures I have had this year. His enthusiasm and love for teaching is so clear and makes for such a comfortable and enjoyable learning experience. He explains concepts extremely well, replies to emails regarding lab equipment immediately and in a very helpful way. He is the reason that this module has been enjoyable despite the lab experiments taking such a long time! Thank you Peter!
- Peter needs to get a drawing tablet so he can properly annotate his slides during online lectures. It is difficult to read his mouse handwriting. Peter is an exceptional lecturer, he replies to queries in Teams regularly and went over and beyond to deliver us our home laboratories. His teaching can be further improved by shorter lectures and a drawing pad/remote whiteboard.
- Thank you so much for being such a good lecturer !!!
- I am very impressed by Peter's knowledge on the subject and also how much attention is given on answering our queries during the lecture. However, due to the fact that he would expand the topic to instil the curiosity, his lectures were often overrun. Nevertheless, I really really appreciate all the work he has done for us, from the preparation of home lab materials, the group tutorials, to the remote individual debugging session from the screen control.
- effor put into electronics kits was very very well recieved
- spent along time on questions, therefore went through the slides very slowly and so overran alot which was frustrating considering i had other stuff to do, and yet he would still have other slides to go through.
- Brilliant in helping you if you get stuck!
- Really interesting lectures that generally I really enjoyed. Must say the writing on the screen was very messy, though I am aware of the lack of technology at home. Perhaps could have been good to use an IPad for writing or a touchscreen computer with a pen, would have made explanations much more easy to understand if the screen writing was neater. Loved the lectures otherwise though, good pace, stopping for questions, and taking a short break in the middle! All great! Thank you!!!
- Timing (duration-wise) of lecture delivery could be improved, although this is in part due to students asking questions as well.
- Thank you for everything that was done to suit the new remote working conditions ie. sending out lab parcels to everyone to ensure that we experiment and understand the content better!
- Due to distance learning, the lectures often overran or were rushed at the end because he took a while to answer questions about extra content throughout the lecture, which also broke up the lecture a bit. It would be better in my opinion to wait until the end of a lecture before answering questions as I would be able to focus on the material more easily but I understand that everyone has different preferences in terms of lecture speed.
- Lectures were well structured, and clearly explained the content required.
- Peter structured the lectures well so it was clear to see what we were learning and how this could be implemented. Going through each of the labs was also especially useful.
- Each of Peter's lectures are very knowledgeable. His replies to queries are also pretty swift and detailed. He also levels down his explanations to those who have never done electronics before, so it was much easier to digest his lecture content.
- Great module, and liked how there were connections and hints towards computing 2 as well. Helps join the whole course together.

Immediately below are the collated numerical results received for the Module.

Module Feedback - Electronics 1: Introduction to Electronic Circuits, Sensors, and Mechatronics (DES

1) The content of the module is well structured					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
22	19	1			

2) The content of the module is intellectually stimulating					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
24	13	3	2		

3) Where applicable, I have received helpful feedback on my work submitted so far					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
10	18	5	2		7

4) Overall, I am satisfied with the quality of the module					
Definitely Agree	Mostly Agree	Neither Agree or Disagree	Mostly Disagree	Definitely Disagree	Not applicable
19	18	4			1

The following free text comments were received:

5) Please use this box to provide any additional constructive feedback on this module. Students with a disability are invited to make specific suggestions for improvement that would assist them:

- I love this module even though it is really challenging and time consuming. Thank you Peter for your amazing job, my parents and friends still can't believe I got a home lab!!!!!
- I've loved this module so much! I can't tell you enough how much I appreciate all the effort Peter has put in to make sure we have all the equipment we need and make the lectures and labs seem as normal as possible despite the pandemic. He is so enthusiastic in his lectures and really inspires me to learn. He's extremely good at explaining things if we don't understand and I always come out of lectures knowing so much more. I especially love our weekly tutor meetings where we get to catch up and talk to him. He's so so lovely to talk to as well and I can't wait to continue working with him and having him as a lecturer in other modules.
- Having done physics A level and played with an Arduino, I still learnt loads! I feel like when not in lockdown, whole parts of lectures to go over the content covered in labs would be a bit too much handholding.
- The labs took a lot longer than three hours, sometimes three times this amount of time, as there was little help but this could not really have been helped with the current situation. The lectures were always well structured with clear targets and the break in the middle is beneficial.
- Electronics was a very interesting module. I found that actually doing the labs before doing the sheets was very useful and allowed me to actually see the concepts I was learning about which was really good. The labs were mega frustrating to do alone and debug alone, however I pretty much never asked for help (albeit I nearly spent 12 hours on one of them). Nonetheless, I personally think that doing the labs in this way was HUGELY beneficial, because I learned so much about spotting mistakes and building circuits, I feel I learned far more than I would have in a lab where my questions would have been immediately answered. On the other hand, typos in the sheets were a massive pain, though I understand that this term was rushed and odd for everyone. A better clarification (i.e. in an actual module guide) of what is and is not examined would be useful for revision. I must say that I very much disliked the lectures about CPUs and microprocessors, I felt that the level of this is a bit high and generally really unnecessary for design engineers - were never going to design computer hardware realistically (perhaps I am missing the point). The quiz's were good although due to the fact that they were on teams and there are NO NOTIFICATIONS on teams, I did miss one of them which is a shame and a waste of 2.5%, though I did finish it later on. Also thought it was unfair that there was supposed to be 5 quizzes, i missed one which would have been a loss of 2% but then it was changed to 4 quizzes so i lost 2.5% instead. Small thing, but worth noting and perhaps considering considering the strange and difficult circumstances of this term.
Really enjoyed lab 4 (REALLY!!!), it was super interesting learning to interact with all those different components and electronic hardware, found it very exciting! Definitely my favourite lab. Would love to have done more of that in other labs perhaps?
- The labs were really long and tedious, i think it just made it alot harder at home since we cant immediately ask for help, so it sometimes takes a whole day to do a lab.
- Could have a better-defined guide for the labs inclusive of the expected oscilloscope waveforms for each task as often times we would be unsure as to whether or not what we saw was (in)correct
- Again I feel that the module content should have been slightly restructured, particularly the lab sessions. Working through these with lab partners is very helpful but a half an hour session with a GTA once per week is really just not sufficient to guide us through parts of the experiments we could not do even when working together (with lab partners). Furthermore because of remote learning, it meant that each lab took many many hours to complete, which I don't think was the intention.
- Never had I had such a unique learning experience until I met Peter in electronics 1. Amazing module designed for this special period in the world. The contents are well structured and are very accessible online. The remote lab is a big big surprise and bonus! I enjoyed learning by doing. The course is well-paced. I think it would be better to know the quiz results immediately (not the answers but whether we got it right or wrong) so we could be prompted to reflect on the mistakes. MS form may not achieve this so I am thinking what alternative could be (black board quiz?).
- I think that the module leaders have done a very good job at altering the module, given the circumstances. My only concern was that the lab sessions took and extremely long time, so maybe more could be done to make these slightly quicker. However, the extra lectures which explained each lab were useful.
- Content not being on blackboard and instead spread between Microsoft teams and the electronics content website means that it's easier to miss assignments and other content.
- Obviously was met with some challenges due to remote learning, however it was adapted as well as it could be in my opinion.
- Sometimes, the class has to ask "how is this concept applied" because sometimes it's not explained during the lecture. I think the module is paced really well and the content is the right amount of challenging. It's a shame that the labs had to be done remotely - unfortunately both I and many students I know waste away hours debugging circuits. Otherwise, good module.
- He provided us with a home lab kit which was definitely useful for the understanding of the module.

- Despite remote learning, Peter made such an effort to make the module accessible. He went above and beyond in all areas, for which i am very grateful.
- This module went above and beyond to try and keep the structure and the learning outcomes the same this was really appreciated however some of the work was a little too quick because we lost some time due to the covid-19 situation
- Great module but struggled to find support from peers when stuck on the content. Forum wasn't great at providing support on understanding related questions.
- It is really cool that we have the lab kits we can use, although practically managing to organise to do the labs at the same time as others did not really work out, so I mostly had to work through them myself meaning discussions were not really had.
- Some more time could have been spent on revision and theory rather than discussing the lab work
- The labs definitely help with the understanding process. The content itself is not too extensive, which allows for a good teaching pace. Questions are answered thoroughly, and content is well explained.
- The labs should be changed if they are done remotely in the future as they simply took too much time to complete. This made it hard to keep up with the course content as there wasn't time to go over it - this was also a concern when the exams were so close to finishing the course content.
- This module contained a lot of material in such a short period of time. It was very hard to keep on track everyday. Labs were long but really interesting, probably my favourite part.
- The content has a nice mix of theoretical and practical, where we learnt the fundamental theories and then prove them with lab experiments. The progression of the lectures were not contained at times, so some of the content were skimmed over rather than seen in depth. Also, the lab sessions were quite short, since many of us have quite a lot of questions to ask(30 mins per group). It was quite hard to follow up in labs when you get stuck and can't find help soon.
- the lab kit is an amazing way to learn.
- This module is one of the most well structured modules I have experienced at Imperial so far. It is easy to plan how I am going to learn the content as Peter Cheung provides all the necessary learning resources and structures his lectures very well. I only wish the lectures were shorter and filled with more real-life examples rather than theory.

[END OF REPORT]