This report contains feedback from students about a course taught in the School of Informatics during the 2020/21 academic year, in response to the following questions:

- What advice would you give to a student taking this course in future?
- What did you find most valuable about the course?
- What improvements, if any, would you make to the course?
- Please add any other comments you have about workshops, tutorials or labs on this course.
- Please add any other comments you have about the presentation of course materials online and their accessibility.
- Reflecting on your experience of hybrid teaching and learning on this course, what has worked well for you?
- Is there anything else you'd like to tell us about your experience of hybrid teaching and learning on this course that would help us improve our approach?

Each course organiser receives this report as well as statistics on multiple-choice responses. All these reports, together with student feedback about individual members of teaching staff, are collected and sent to the Director of Learning and Teaching.

Please note that these are personal responses from individual students: some courses only have a few responses and a small sample can be unrepresentative.

Stereotyping and bias, especially unconscious bias, is a serious concern in any survey gathering personal responses. All students received the rubric below before completing the surveys, and you can read a brief introduction to issues of unconscious bias on the university web pages at http://edin.ac/2iypZBv

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Rubric given to all students taking the end-of-course feedback survey

We value your opinions on the courses you take here at the University, as they allow us to shape future delivery and development. We welcome constructive comments about your courses, whether positive or negative, and ask you to give details about any issues in order to help the course organiser to understand and address them.

We encourage you to be aware of the potential for bias in the completion of these questionnaires, so we have developed resources which may be helpful to you:

- Equality, Diversity and Unconscious Bias (http://edin.ac/2iypZBv)

You also have a responsibility to provide feedback in a manner which does not breach the University’s Dignity and Respect Policy:

- University of Edinburgh Dignity and Respect Policy (http://edin.ac/1Cq0VZy)

The results of the questionnaires will never be analysed in a way that seeks to identify individual students from their responses. However, should you wish to remain anonymous, please do not identify yourself in your answers to the survey questionnaire implicitly or explicitly.
1. What did you find most valuable about the course?
   ▪ It is a good mix of theory and practical.
   ▪ Practical approach to learn Robotics part of the course. Hopefully it will be followed in vision part as well in future.
   ▪ The labs and the practical assignment
What improvements, if any, would you make to the course?

- I felt that the scope for the examination was not very clear. Compared to past year papers shared with us, there were lot of mathematical problems in the examination which we had not expected and not performed enough exercises on them. For assignments, many of us were confused how to solve with no help which makes sense as it was not a lab where you can simply ask the answer but, unlike other courses, the difficulty level of the assignment was quite high. I also saw lot of students struggling with setting up and using ROS which affected their assignment, may be it could be a good idea to take first week to do all set up and go through basics, I found it bit hectic from first week itself.

- I wasted many hours trying to get the ROS system to work, and from other discussions it feels like this was a problem that many people experienced.

- The workload is high and there is a lot of material to cover. Working full time and studying part time, I found it difficult to follow everything at the same time: the archived material, the lessons (always in the morning so not possible to attend but through recordings) and the practicals.
2.1) What advice would you give to a student taking this course in future?

- It is very important to know basic mathematics like probability, statistics and especially linear algebra prior to taking this course.
- Prepare to dedicate more than 10 hours a week for this course alone.
3. Introduction to Vision and Robotics -

3.1) Please add any other comments you have about the presentation of course materials online and their accessibility.

- Everything was accessible

- I was not satisfied with the quality of lecture videos in vision part. The content was helpful but the slides were not clearly visible and they are quite old.
6. Introduction to Vision and Robotics

6.1) Reflecting on your experience of hybrid teaching and learning on this course, what has worked well for you?

- I have liked this inverted classroom method, the tutorials were not just questions and answers but brief summary of that week’s topic as well, I really appreciate that.
- Availability of all material online
6.2) Is there anything else you'd like to tell us about your experience of hybrid teaching and learning on this course that would help us improve our approach?

- As classes were all in the morning, it is not possible with a full-time job to attend them.

- There should be sufficient time provided to go through each lecture. We had two lectures per week, at one point in the middle of the course, two lectures were combined into one and we had lots of videos to go through just in one week.
Thank you very much for taking the time to complete this questionnaire. Your response and comments will be fully considered.

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Please provide any additional comments you may have about the course, the teaching on the course or the resources that support it in the box below.

- I really enjoyed this challenging course, but I felt that there was a lot to cover in just around 10 weeks and would have liked some more time to explore and perform better. I had to give twice as much time in this course compared to other courses I had enrolled in the semester. The material of this course could easily be for more than 10 credits.

- The lecturer was often not all that helpful when questions were asked by students. I made a post on piazza in which I asked several questions but only was actually addressed.

  The lecturer's explanations sometimes caused more confusion than clarity, in particular around the Denavit-Hartenberg convention.

  The assessment proved to be problematic too, and it appears that many people had problems with it. I believe that the first part of the assignment was not mathematically possible for all angle values.