

DT8007 (Design of Embedded and Intelligent Systems, HT 2025, Halmstad, H3420, X3420)

Number of possible respondents: 21

Answers: 9

Response rate: 42,86 %

Study pace: 50 %

Examiner's course analysis

Based on the course evaluation result - which are the strengths of the course?

The "challenging", "exciting", hands-on project (opportunities to be creative, freedom, and designing and implementing a complex system from start to finish), "super-interesting", "well-aligned" lectures and labs, teachers.

Based on the course evaluation result - which are the weaknesses of the course?

Individual comments from the course evaluation and ambassadors were as follows (no two students mentioned the same weakness):

- Equipment (e.g., better motors and encoders, etc.)
- More organization on Blackboard for the labs and project would be good.
- The course is hard: it's hard to learn about so many topics for the oral exam, and hard to judge how complex a system design should be (examples from previous years would help).
- An additional metric would be good for evaluating individual contributions in the project.
- For Tollgate 3, a short presentation in the demo session would help to give students a chance to explain how their robot works and how they implemented their ideas, and to learn from others by understanding their designs and approaches.

Comments about the collaboration with the course ambassadors

We had two course ambassadors, who were very motivated and positive and great to have in the course.

Conclusion and suggestions for course development or already made decisions

There is much chaos and bother planned for the next time unfortunately, which is likely to affect quality:

- We applied for funding from KKS to do some _heavy_ updates to DT8007 to allow for closer connection to research and industry.
- We are being forced to change project rooms to a more cramped/exposed area, which will also entail heavy work to get set up again (cameras, lighthouses, etc.).
- The course responsible has to take on a new related course, requiring probably much time to coordinate with various teachers on equipment and topics, etc.
- We also want to collaborate again across courses with FIH and within ITE, and need to set up a completely new, complex project with many possible failing points.

For the weaknesses mentioned:

- We will purchase some new equipment (especially prioritizing essentials) and look into various options for different components.
- For labs/projects, we will make things clearer and more consistent, and have a dedicated space on Blackboard for report submission and viewing assessment results, instead of submitting reports via email.
- We will try to mark clearly some most important topics to learn for grade 3. (We will also pilot/try a written exam instead of oral, also in case this helps some students to feel more at ease.) Some brief info on previous year examples will somehow be provided (students will be asked to check out

summary videos for previous years as a starting point).

-We will look into what options could exist for better assessing individual contributions in the project.

-For Tollgate 3, a short presentation will be included.

Other comments

I was very surprised and happy to see the very positive evaluation, which is the highest I've ever seen for this course (100% satisfaction, 95% overall, with almost 50% rate!)--thank to everyone who responded and everyone who helped make the course so nice this year!

I am overall satisfied with the course.

	Number of responses	Distribution (%)	Index (%) I am overall satisfied with the course	100
0 = I definitely do not agree	0	0%		
1	0	0%		
2	0	0%		
3	0	0%		
4	0	0%		
5 = I definitely agree	9	100%		
No opinion	0	0%		
Total	9	100%		

How much time have you spent on the course in relation to the course's study pace?

	Number of responses	Distribution (%)
Less time than the course study pace	1	11%
Corresponding to the course study pace	4	44%
More time than the course study pace	4	44%
Total	9	100%

The design of the course (teaching methods, literature, pedagogy, etc.) has been well adjusted to help me achieve the learning outcomes in the syllabus.

	Number of responses	Distribution (%)
0 = I definitely do not agree	0	0%
1	0	0%
2	0	0%
3	1	11%
4	1	11%
5 = I definitely agree	7	78%
No opinion	0	0%
Total	9	100%

Index (%) The design of the course (teaching methods, literature, pedagogy, etc.) has been well adjusted to help me achieve the learning outcomes in the syllabus.

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During the course examinations, I have had the opportunity to show that I have achieved the learning outcomes in the syllabus.

	Number of responses	Distribution (%)
0 = I definitely do not agree	0	0%
1	0	0%
2	0	0%
3	1	11%
4	2	22%
5 = I definitely agree	6	67%
No opinion	0	0%
Total	9	100%

Index (%) During the course examinations, I have had the opportunity to show that I have achieved the learning outcomes in the syllabus.

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I have experienced the social study environment as good during the course.

	Number of responses	Distribution (%)	Index (%) I have experienced the social study environment as good during the course.	
0 = I definitely do not agree	0	0%	Index (%) I have experienced the social study environment as good during the course.	96
1	0	0%		
2	0	0%		
3	0	0%		
4	2	22%		
5 = I definitely agree	7	78%		
No opinion	0	0%		
Total	9	100%		

Course satisfaction index

Satisfaction index % (summary of all statements)	95
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