

MT6025 (Design of Mechatronical Systems, VT 2026, Halmstad, V0505, X0505)

Number of possible respondents: 19

Answers: 6

Response rate: 31,58 %

Study pace: 50 %

Examiner's course analysis

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

Students especially appreciated the strong connection between theory and practice in the course. They found it valuable and educational not only to learn concepts but also to apply them by manufacturing components themselves and integrating them into a complete, functioning system. Watching individual parts come together and begin to work as a whole was described as both interesting and rewarding. The hands-on elements, such as 3D printing their own parts, enhanced engagement and made the experience more enjoyable. Additionally, students highlighted the satisfaction of working with code in a tangible way; thus, being able to make changes and immediately see the effects in real life contributed to a sense of accomplishment, making the learning process feel more dynamic and fun.

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

Students felt that some aspects of the course could be improved by making the lab and exercise descriptions clearer and easier to follow, as parts of the instructions were at times perceived as confusing. They suggested reviewing and refining these materials to reduce ambiguity. Additionally, there was a desire for more structured support toward the end of the course, such as extra lectures or dedicated project time, as many groups encountered more advanced programming challenges and needed increased guidance. Some students also addressed the course's workload.

Comments about the collaboration with the course ambassadors

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Conclusion and suggestions for course development or already made decisions

There will be a revision of the laboratory exercise instructions. The instructions regarding the final report, the expectations, and how they link to the learning outcome will be improved. The student's individual contribution needs to be more clearly specified, and there was some variation in the quality of the students' project reports. Project examination will have even stricter assessment conditions so that all groups experience the same opportunities during evaluation.

Other comments

This is the third time the course has been given. This year's course was run with the same setup as last year, e.g., smaller exercise groups, more scheduled access to the Laboratory room, updated instructions, software templates, and a general adaptation of the course material to students' backgrounds. Despite that, the course satisfaction index dropped.

Course satisfaction index: 69% (2026), 84% (2025), 63% (2023)

I am overall satisfied with the course.

	Number of responses	Distribution (%)	Index (%) I am overall satisfied with the course	80
0 = I definitely do not agree	0	0%		
1	0	0%		
2	0	0%		
3	2	33%		
4	2	33%		
5 = I definitely agree	2	33%		
No opinion	0	0%		
Total	6	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	0	0%
Corresponding to the course study pace	4	67%
More time than the course study pace	2	33%
Total	6	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	1	17%
3	3	50%
4	1	17%
5 = I definitely agree	1	17%
No opinion	0	0%
Total	6	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	1	17%
2	1	17%
3	1	17%
4	2	33%
5 = I definitely agree	0	0%
No opinion	1	17%
Total	6	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%	72	
1	0	0%		
2	0	0%		
3	3	50%		
4	1	17%		
5 = I definitely agree	1	17%		
No opinion	1	17%		
Total	6	100%		

Course satisfaction index

Satisfaction index % (summary of all statements)	69
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