

EL8010 (Applied Electromagnetics, HT 2024, Halmstad, E3913, H3913, X3914)

Number of possible respondents: 43

Answers: 27

Response rate: 62,79 %

Study pace: 50 %

Examiner's course analysis

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

The contents in the textbook are a bit diffused. For better deep-learning, since 2022 I have been developing/updating a course lecture notes in a systematic way, closely correlated with the course plan in the education program and students' education background. I ran also a seminar hour to talk about state-of-art development in the field to broaden the course perspective. The results in teaching and deep-learning are very good.

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

Because of limited knowledge in fundamental mathematics, physics, and numerical programming in some students, and the limited lecture hours, I had to skip a few important sections in electromagnetism that links the fundamental Maxwell's equations to today's state-of-the-art electronics and photonics technologies. This weakens the course significantly. Note that this is a master-level course.

Comments about the collaboration with the course ambassadors

Course ambassador was discussed at the first lecture. But because the course is taken by students from different education programs, we could not fix the Course ambassador. Instead, it was agreed that any questions were directly communicated with me. And, it worked quite well. In course evaluation report, you read many comments, e.g., "Communication between teacher and students, there are no barriers," "We can always approach Professor Ying for even the simplest doubts."

Conclusion and suggestions for course development or already made decisions

The teaching and learning are very good, for the students which have passed the course. While for others, I sincerely wish to find means to improve/enhance their knowledge in fundamental mathematics, physics, and numerical programming, so that the teaching and learning can move deeper.

Other comments

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Gender

	Number of responses	Distribution (%)
Female	10	37%
Male	17	63%
Do not want to define	0	0%
Total	27	100%

I am overall satisfied with the course.

	Number of responses	Distribution (%)	Index (%) I am overall satisfied with the course	54
0 = I definitely do not agree	2	7%		
1	4	15%		
2	6	22%		
3	6	22%		
4	6	22%		
5 = I definitely agree	3	11%		
No opinion	0	0%		
Total	27	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	2	7%
Corresponding to the course study pace	16	59%
More time than the course study pace	9	33%
Total	27	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 (%)	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.
0 = I definitely do not agree	4	15%	
1	4	15%	
2	6	22%	
3	4	15%	
4	6	22%	
5 = I definitely agree	3	11%	
No opinion	0	0%	
Total	27	100%	

50

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	4	15%
1	1	4%
2	4	15%
3	4	15%
4	2	7%
5 = I definitely agree	9	33%
No opinion	3	11%
Total	27	100%

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

62

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

	Number of responses	Distribution (%)
0 = I definitely do not agree	2	7%
1	3	11%
2	2	7%
3	5	19%
4	5	19%
5 = I definitely agree	10	37%
No opinion	0	0%
Total	27	100%

Index (%) I have experienced the social study environment as good during the course.

68

Course satisfaction index

Satisfaction index % (summary of all statements)

58