

DT8051 (Python - a Gateway to Machine Learning, HT 2023, Ortsoberoende, Halmstad, 13118, H3118, X3223)

Number of possible respondents: 112

Answers: 52

Response rate: 46,43 %

Study pace: 50 %

Examiner's course analysis

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

The material and how it is organised and presented seems to satisfy the students. The insight that programs can be made better by analysing their execution time and choosing algorithm design techniques and data structures.

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

1. Students are still afraid of the written exam, in spite of SI sessions dedicated to it, one week of lectures solving old exams and availability of old exams.
2. Some students still feel that they need more programming practice at the start.
3. Releasing the course material week by week instead of all (or most) at once.

Comments about the collaboration with the course ambassadors

The course responsible asked publicly during the lectures for volunteers and three students expressed their wish to be ambassadors. Two of them attended the information meeting but only one participated in designing the questions and analysing the results. He put effort in collecting students' impressions that could be turned into relevant questions.

Conclusion and suggestions for course development or already made decisions

Of the 112 students in the course around 70 wrote the final exam and 52 answered the survey. The course seems overall to be working well but some improvements to help students achieve the learning outcomes could be

1. To address the students fear for the written exam we can add tests with multiple choice questions in Blackboard. The questions could address the same material as the written exam and have explanations for the correct resp. incorrect answers.
2. To address the students not being comfortable with programming we could add extra sessions of SI during the first 2 weeks just about writing code in Python with very small examples complemented by tests in Blackboard that get automatically marked.
3. The teacher might want to release most of the material at once (though next year the course will have another teacher so new ideas might arise)

Other comments

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Gender

	Number of responses	Distribution (%)
Female	23	44%
Male	28	54%
Do not want to define	1	2%
Total	52	100%

I am overall satisfied with the course.

	Number of responses	Distribution (%)	Index (%) I am overall satisfied with the course	75
0 = I definitely do not agree	5	10%		
1	2	4%		
2	2	4%		
3	6	12%		
4	13	25%		
5 = I definitely agree	23	44%		
No opinion	1	2%		
Total	52	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	13	25%
Corresponding to the course study pace	24	46%
More time than the course study pace	15	29%
Total	52	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.	71
0 = I definitely do not agree	4	8%		
1	2	4%		
2	6	12%		
3	7	13%		
4	13	25%		
5 = I definitely agree	19	37%		
No opinion	1	2%		
Total	52	100%		

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 (%)	Index (%) During the course examinations, I have had the opportunity to show that I have achieved the learning outcomes in the syllabus.	
0 = I definitely do not agree	7	13%		
1	1	2%		
2	4	8%		
3	4	8%		
4	15	29%		
5 = I definitely agree	14	27%		
No opinion	7	13%		
Total	52	100%		67

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	4	8%		
1	2	4%		
2	1	2%		
3	4	8%		
4	6	12%		
5 = I definitely agree	24	46%		
No opinion	11	21%		
Total	52	100%		78

Course satisfaction index

Satisfaction index % (summary of all statements)	73
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This year the SI (supplemental instruction) sessions were led by a Phd student and earlier students from the course. They focused on programming in Python and preparations for the written exam.

The SI sessions helped me do well in the course.

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	Number of responses	Distribution (%)
0 = I definitely do not agree	0	0%
	2	4%
	3	6%
	3	6%
	9	17%
5 = I definitely agree	14	27%
No opinion	21	40%
Total	52	100%

The course moves relatively fast and some students might need more support at the start.

Choose one of the following alternatives.

The course moves relatively fast and some students might need more support at the start. Choose one of the following alternatives.		
	Number of responses	Distribution (%)
I would attend more SI session during the first weeks.	19	37%
I would attend more practical (tutorial) sessions during the first weeks.	23	45%
I would not attend more sessions during the first weeks (the teaching that is offered is enough).	21	41%
Total	63	124%

For the labs and the project there are tutorial sessions explaining how to solve the exercises and supervision sessions for getting feedback on your attempts to solve the exercises.

When I needed feedback related to my attempts to solve the exercises in the labs and the project I could ask my supervisor.



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When I needed feedback related to my attempts to solve the exercises in the labs and the project I could ask my supervisor.

	Number of responses	Distribution (%)
0 = I definitely do not agree	4	8%
	2	4%
	2	4%
	6	12%
	7	13%
5 = I definitely agree	20	38%
No opinion	11	21%
Total	52	100%