

Evaluation report Programming in Engineering

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The evaluation committee has evaluated the course Programming in Engineering by sending an online questionnaire to 103 students. 23 students filled in the questionnaire, which gives a response of 22%.

The course Programming in Engineering is evaluated with an average grade of 3.6 which is sufficient for a master course. This is the same grade as the previous evaluation. However almost all respondents mention that the Matlab part is (very) good/perfect, while the C++ part is bad. Respondents mention that the C++ lectures were not structured and went too fast. Also, the lecturer was constantly interrupted by his mentor/supervisor/professor which was very distracting. The study material of C++ is of very poor quality and was made available too late. So improve the C++ part to make this course even better.

These are the main conclusions of the evaluation. The interpretation is based on the remarks of the respondents. For an overview of the results, see the graph at the end of this report.

Recommendations of previous evaluation

The last evaluation was in 2011/2012

- Look for the possibilities to upgrade the course to a 5EC course. Students mention that the time they have spent on the course is more than 3EC (especially in the C++ part which is only 1EC)
- Take the delivered assignment more seriously. Some students complain that they have put a lot time in the assignment and that the oral exam was over within 10 minutes.
- Look at the prior knowledge of the students for next year. This generation have had the BEAM series and should have more knowledge in this field of Matlab already.
- Continue like this!

Recommendations by the committee

The quality of the course can be improved. Based on the results of the questionnaire, some recommendations for improvement are provided. The most important recommendations are:

- Improve the lectures for the C++ part.
- Start earlier with the C++ lectures, most students already know the basics of Matlab, but never worked with C++ before.
- Improve the study material for the C++ part. Improve the quality but also make sure that the material is available at the beginning of the course.

Remarkable facts

- There is a big difference between the Matlab part and the C++ part.

Overview

- All marks are given on a Likert-scale from 1-5. For master courses, a mark of 3.5 or higher is sufficient.
- The height of the bars in the graph represents the mark. The thin line at the top of the bars gives the standard deviation.

Explanation of marks

- Total 'first impression rating' is the mark given to the question: Overall appreciation.
- Ability to study is the average point of the marks given to the part of study material.
- Relevancy is the mark given to the question: Relevancy of the course.
- Quality of education is the average point of the marks given to the parts "lectures" and "practices".
- Coordination / Planning is the average point of the marks of "Adequate Information on Blackboard" and "Teacher available for questions".
- Examination / Assignments is the average point of the marks given to the Examination /Final Assignment part.
- Average is the mean of all given marks.

Marks	
First impression rating	3.4
Ability to study	3.3
Relevance	3.9
Quality of education	3.1
Coordination / planning	3.9
Examination / Assignments	3.9
Average	3.6

