Evaluation report Multiphase Flows

201400300   *prof.dr. S. Luding*

The evaluation committee has evaluated the course Multiphase Flows by sending an online questionnaire to 45 students. 14 students filled in the questionnaire, which gives a response of 31%.

The course Multiphase Flows scores an average mark of 3.4 which is just insufficient for a master course. Students think the learning outcome of the course is very relevant for their academic development (4.4) and that the course is interesting (4.1). Unfortunately, the course also scores some insufficient marks. Because of the multi lecturer nature of this course, it is possible the statements about study material and lectures do not apply for all the different subjects.

The coverage of the study material (2.6), the quality of the study material (3.1) and the use of black- or whiteboard, sheets or PowerPoint (3.0) score the lowest marks. From the open comments it becomes clear that students think the study material is unclear. There was little to no reference literature and the sheets simply stated equations without further explanation.

"The assignments were clear" (3.1) and "the requirements for the assignments were clear" (3.3) also score insufficient. The reason for these marks seem to be caused by some assignments being very vague. Students were confused about what the lecturer really wanted them to do.

The lecturers added some questions themselves to this questionnaire. Students think the multi lecturer nature of the course had positive influence on the course (3.8). The best lectures were given by prof.dr. S. Luding, dr. ir R. Hagmeijer and dr. ir. E. van der Weide. The students found the lectures from dr. ir. J. Kok the least interesting to follow. The main reason for this is that he uses sheets from someone else and not really prepares the lectures. Because the sheets were someone else's he had to skip through half of the lectures to find information needed for the course.

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

No previous report was found. It is therefore not possible to state the recommendations of the last evaluation.

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 study material; stating a lot of formulas without any background information can be really confusing for the students. Giving some background literature could solve this problem. Or else, if the course was meant for students to find their own background literature, do make this clear to the students.

- Make the assignments clearer; in order for the students to deliver good assignments it needs to be clear what is expected from them.
- For dr. ir. J. Kok: improve your slides and prepare them; this will greatly improve your lectures and help focus your students on what is really important.

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.