Evaluation report: Transport Phenomena

2011/2012

The evaluation committee has evaluated the course Transport Phenomena by sending an online questionnaire to 105 students. 37 students filled in the questionnaire, which gives a response of 35%.

The course Transport Phenomena was appreciated with a 6.8, which is slightly below the required 7 for a master course. In 08/09 this course was marked with a 7.3. Respondents think the course is interesting and relevant (8.3 and 8.7), but the subject did not become clear during the lectures (5.4, in 08/09 it was a 7.1) and self study is not possible since the weekly tutorials were compulsory (5.4, in 08/09 it was a 4.9).
Points that can be improved are a redistribution of the lecture contents and the structure of the lectures. Respondents mention that the easier part of the course is going too slow, while the difficult part is going too fast.

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 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:

- The tempo of the lectures was very alternating. In the beginning the tempo was too slow, whilst the contents were very basic. At the end of the course exact the opposite occurred, the tempo was too high and the contents were too difficult. Spend less time at the basics and put more effort in explaining the harder core of the course. Exactly the same recommendation was done three years ago.
- The sheets should be reconsidered. The overall structure of the course is missing and even between two successive sheets respondents miss the connection between those. Try to link the different lectures together by using a table of contents at the beginning of the lecture, so students can see at what subject they are working on. Also some more explanation is required on the sheets when there are formulas on.
- The respondents notice a difference between the two teachers and they find the lectures during the first part of the course unstructured.

Remarkable Facts:
- The amount of mechanical engineering students and other students is almost equal. Of these other students fourteen are chemical engineering students.
- Students either love or hate the book that is being used the course. There is not much in between.

Overview:

- Most marks are given on a scale from 1-5 and converted to a scale from 2-10 by multiplying with a factor 2. For master courses, a mark of 7.0 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.

Orange	General
Yellow	Lectures
Blue	Study material
Purple	Examination / Final Assignment

Marks	
Total appreciation	6.8
Ability to study	6.7
Relevancy	8.7
Quality of education	6.4
Coordination / planning	8.3
Examination / Assignments	8.4

Explanation of marks:
- Total appreciation 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: Learning outcome relevant.
- 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.

Evaluatie
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Chart categories (left to right):
- Overall appreciation
- Learning outcome relevant
- Contents interesting
- Adequate info on Blackboard
- Teacher available for questions
- Lecture organization
- Subject became clear
- Use of facilities
- Study material covered subject sufficiently
- Course suitable for self study
- Quality study material
- Clear requirement for exam
- Exam well related to major subjects
- Questions were clear