

Results Report

Lecturer's Report

Course Evaluation – winter semester 2025

Course: "Foundations of Mathematics, Gruppe 1"

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Questionnaire: "SET.UP - Lehrveranstaltungsevaluation"

Contents

| | | |
|-----------|---|----------|
| 1 | Introduction and Structure of the Report | 2 |
| 2 | Answers given by the Students | 3 |
| 3 | Knowledge Transfer | 3 |
| 4 | Student support | 3 |
| 5 | Subject-Specific Competences | 3 |
| 6 | Increase in Subject-Related Interest | 4 |
| 7 | Further Questions by your Lecturer | 4 |
| 7.1 | What did you like about this course? | 5 |
| 7.2 | Do you have suggestions for improving this course? | 5 |
| 8 | Workload | 5 |
| 9 | Overall Assessment of the Course | 5 |
| 10 | Open Comments | 6 |
| 10.1 | What should definitely be maintained and continued in the course? | 6 |
| 10.2 | What should be changed or not continued to be done in the future regarding this course? | 6 |
| 10.3 | What did you miss in this course, and what should be started? | 6 |
| 11 | Information on Degree (current degree programme) and semester | 7 |
| 12 | Information about Trainings and further Services related to Teaching | 8 |
| 12.1 | Didactics at the University | 8 |
| 12.2 | For new Teachers | 8 |
| 12.3 | E-Learning | 8 |

1 Introduction and Structure of the Report

Dear lecturers,

This report provides you with the evaluation results of your course, which you conducted using the **SET.UP questionnaire**. The aim of the report is to provide you with a basis for self-reflection on your teaching. The evaluation process using the default settings of SET.UP essentially consists of the following three steps.

Step 1: Motivating students to participate and conducting the student survey

Motivate your students to participate actively by allowing them time during the course to complete the survey using internet-enabled devices and by showing them how you have been able to improve your **teaching** in the past based on their feedback. The students' responses are presented by topic **starting in Chapter 2**.

Step 2: Discussing the results with students

Next, discuss the evaluation results with the students to highlight the importance of feedback. This gives you the opportunity to identify the strengths and weaknesses of your course as perceived by the students and compare them with your own perceptions. Results of the 2018 teacher survey show that just under a quarter of teachers say they do not report the results back to students at all. Discussing the results and deriving measures are just as much a part of the evaluation cycle as the survey itself (see Figure 1).

Step 3: Further development of your teaching

If you are looking for new ideas or advice, the **last chapter** contains information about internal and external university programs and institutions related to teaching.

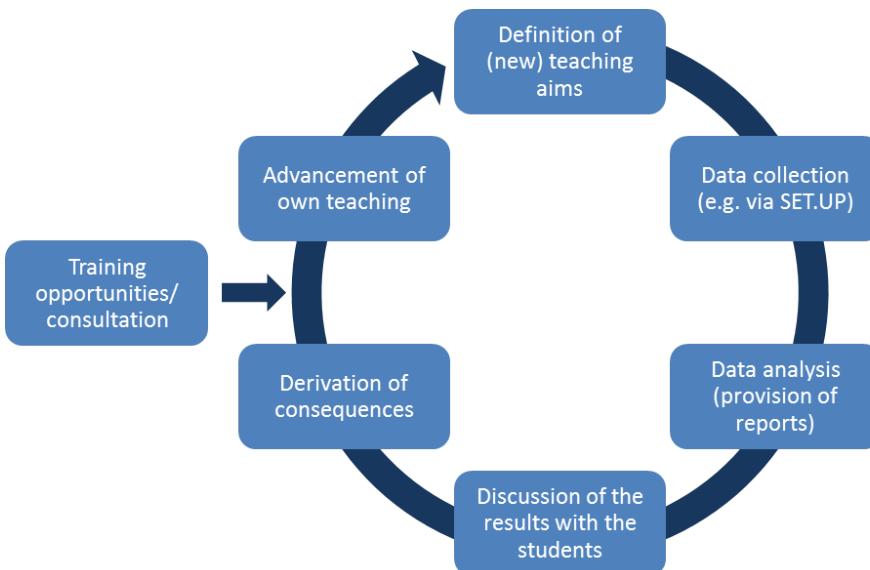


Figure 1 – evaluation cycle by Deming 1982 (own and extended visualization)

2 Answers given by the Students

Below, you can find the answers provided by the students concerning their acquisition of competence and the teaching-learning situation in the course. 7 students have participated in the survey. That means that the results of the survey are based on **7 student opinions**.

3 Knowledge Transfer

Question text: *To what extent do the following statements apply to the lecturer?*

| | fully applies (1) | rather applies (2) | partly applies (3) | rather not applies (4) | does not apply at all (5) | Amnt. | Missing | Avg. | s |
|--|----------------------|--------------------|--------------------|------------------------|------------------------------|-------|---------|------|-----|
| | | | | | | | | | |
| The learning objectives of the course are clear to me. | 83 % | 17 % | – | – | – | 6 | 14 % | 1.2 | 0.4 |
| I was able to follow the content structure of the course well. | 83 % | 17 % | – | – | – | 6 | 14 % | 1.2 | 0.4 |
| I have understood the terms and concepts explained in the course. | 67 % | 33 % | – | – | – | 6 | 14 % | 1.3 | 0.5 |
| The examples in the course helped me to better understand the learning content/material. | 50 % | 33 % | 17 % | – | – | 6 | 14 % | 1.7 | 0.7 |
| Difficulties in understanding were addressed constructively in the course. | 83 % | – | 17 % | – | – | 6 | 14 % | 1.3 | 0.7 |

4 Student support

Question text: *To what extent do the following statements apply to the lecturer?*

| | fully applies (1) | rather applies (2) | partly applies (3) | rather not applies (4) | does not apply at all (5) | not used | Amnt. | Missing | Avg. | s |
|--|----------------------|--------------------|--------------------|------------------------|------------------------------|----------|-------|---------|------|-----|
| | | | | | | | | | | |
| I found the teacher to be easily accessible for my questions and concerns. | 83 % | 17 % | – | – | – | – | 6 | 14 % | 1.2 | 0.4 |

5 Subject-Specific Competences

Question text: *To what extent do the following statements apply to you?*

| | fully applies (1) | rather applies (2) | partly applies (3) | rather not applies (4) | does not apply at all (5) | Amnt. | Missing | Avg. | s |
|---|----------------------|--------------------|--------------------|------------------------|------------------------------|-------|---------|------|-----|
| | 50 % | 50 % | – | – | – | | | | |
| I am able to recall important terms/facts from this course. | | | | | | 6 | 14 % | 1.5 | 0.5 |
| I am able to give an overview of the course content. | 50 % | 33 % | – | 17 % | – | 6 | 14 % | 1.8 | 1.1 |
| I now feel able to tackle a typical problem within this course's field. | 50 % | 33 % | – | 17 % | – | 6 | 14 % | 1.8 | 1.1 |
| I am able to depict complex course matters. | 33 % | 17 % | 33 % | 17 % | – | 6 | 14 % | 2.3 | 1.1 |
| I am able to identify discrepancies and similarities of varied course content (e.g. discrepancies between different models or procedures etc.). | 67 % | – | 17 % | 17 % | – | 6 | 14 % | 1.8 | 1.2 |
| Because of this course, I am able to better evaluate the quality of professional articles on relevant topics. | 33 % | 17 % | 33 % | 17 % | – | 6 | 14 % | 2.3 | 1.1 |
| Because of this course, I better understand the practical significance of topics discussed. | 33 % | 33 % | 33 % | – | – | 6 | 14 % | 2.0 | 0.8 |
| Because of this course, my ability to apply theoretical knowledge to practical problems/tasks has improved. | 33 % | 50 % | 17 % | – | – | 6 | 14 % | 1.8 | 0.7 |

6 Increase in Subject-Related Interest

Question text: To what extent do the following statements apply to you?

| | fully applies (1) | rather applies (2) | partly applies (3) | rather not applies (4) | does not apply at all (5) | Amnt. | Missing | Avg. | s |
|---|----------------------|--------------------|--------------------|------------------------|------------------------------|-------|---------|------|-----|
| | 17 % | 50 % | 17 % | – | 17 % | | | | |
| I now find the topic more interesting than at the beginning of the course. | | | | | | 6 | 14 % | 2.5 | 1.3 |
| The course has reinforced my wish to continue my studies. | 50 % | 33 % | 17 % | – | – | 6 | 14 % | 1.7 | 0.7 |
| I enjoy solving the assignments given to me in this course. | 50 % | 17 % | 33 % | – | – | 6 | 14 % | 1.8 | 0.9 |
| In this course, I have learned things that excite me. | 33 % | 17 % | 17 % | 33 % | – | 6 | 14 % | 2.5 | 1.3 |
| I engage with topics of the course beyond the course itself - just for fun. | 33 % | – | 17 % | 17 % | 33 % | 6 | 14 % | 3.2 | 1.7 |

7 Further Questions by your Lecturer

| | fully applies (1) | rather applies (2) | partly applies (3) | rather not applies (4) | does not apply at all (5) | Amnt. | Missing | Avg. | s |
|--|----------------------|--------------------|--------------------|------------------------|------------------------------|-------|---------|------|-----|
| | 33 % | 33 % | 17 % | 17 % | – | | | | |
| I learned a lot from this course. | | | | | | 6 | 14 % | 2.2 | 1.1 |
| I found the workload appropriate (expected workload is about 10 hours per week). | 67 % | 17 % | – | 17 % | – | 6 | 14 % | 1.7 | 1.1 |
| The lectures and lecture materials were well-designed. | 67 % | – | 33 % | – | – | 6 | 14 % | 1.7 | 0.9 |

7.1 What did you like about this course?

- Lecture videos were reasonable length and easy to follow.
- Professors are accessible and patient.
- The sessions were easy to follow and structurally excellent.
- The willingness of the instructor to answer many questions asked during the lectures.

7.2 Do you have suggestions for improving this course?

- Change nothing
- More time for questions should be allocated for sure. As many students from non math/ technical background are also in the same lecture (like myself), so more time should be given by the instructor to them to really feel more comfortable with the subject. Instructor should encourage such weak students to ask more questions and be more open to such students without having to ask for concepts everytime. The instructor should have more empathy and intuition towards such students who are not at the same level as of others.
- Some of the content in lectures with theoretical examples can be a bit long and hard to follow (like explanation of derivatives and integrals with the limits) and I think spends too much time on it for theoretical understanding but isn't really used in the grading or actual assignment solutions (at most, they're "optional" exercises)

8 Workload

Question text: How many hours per week on average do you spend on the taken course during this semester?

Answers

Valid: 5 (71.4 %), Missing: 2 (28.6 %)

| | Absolute | Percentage | C. percentage |
|--------------|----------|----------------|----------------|
| 4 | 2 | 40.0 % | 40.0 % |
| 5 | 1 | 20.0 % | 60.0 % |
| 7 | 1 | 20.0 % | 80.0 % |
| 9 | 1 | 20.0 % | 100.0 % |
| Total | 5 | 100.0 % | 100.0 % |

9 Overall Assessment of the Course

| | very high (1) | rather high (2) | partly high, partly low (3) | rather low (4) | very low (5) | Amnt. | Missing | Avg. | s |
|--|---------------|-----------------|------------------------------|-----------------|---------------|-------|---------|------|-----|
| | | | | | | | | | |
| My prior knowledge of the topics covered before the start of the course was... | – | ■ 40 % | ■ 20 % | ■ 20 % | ■ 20 % | 5 | 29 % | 3.2 | 1.2 |
| My knowledge increase is ... | ■ 33 % | ■ 17 % | ■ 50 % | – | – | 6 | 14 % | 2.2 | 0.9 |
| | very good (1) | rather good (2) | partly good, partly poor (3) | rather poor (4) | very poor (5) | Amnt. | Missing | Avg. | s |
| Altogether, I think this course is ... | ■ 67 % | ■ 33 % | – | – | – | 6 | 14 % | 1.3 | 0.5 |

10 Open Comments

10.1 What should definitely be maintained and continued in the course?

- Explanations using diagrams on board should be maintained and should be done more. and even the teacher should ask students to explain the concepts right there to reinforce the concepts.
- Structure of the course and the scope of the assignments.

10.2 What should be changed or not continued to be done in the future regarding this course?

- Change room / light bulbs.
- More time should be allocated for weak students. Approximately 15 to 20 minutes after the class should be given for concepts of the current lecture which was presented.

10.3 What did you miss in this course, and what should be started?

- - Fun academic activities should be included to make everyone included and excited about the course. - For students requiring more time and efforts for this course an extra class should be arranged to bring them to the same level and make it easy for them to understand the course deeply enough to easily pass the course without too much struggle.
- We need Michael Vrazitulis for Machine Learning and Data Analysis. It'd benefit from an student-centered and didactically well-structured approach. I think the old lecturer is leaving.

11 Information on Degree (current degree programme) and semester

Question text: *Degree (current degree programme)*

Answers

| Missing: 1 (14.3 %) | Absolute | Percentage |
|---------------------|----------|----------------|
| Master | 6 | 100.0 % |
| Total | 6 | 100.0 % |

Table 1 – Frequencies: Degree (current degree programme)

Question text: *Study semester*

Answers

| Missing: 1 (14.3 %) | Absolute | Percentage | C. percentage |
|---------------------|----------|----------------|----------------|
| 1. | 6 | 100.0 % | 100.0 % |
| Total | 6 | 100.0 % | 100.0 % |

Table 2 – Frequencies: Study semester

12 Information about Trainings and further Services related to Teaching

12.1 Didactics at the University

Covering a lot of aspects on how to organize teaching and courses of studies, the Network **Studienqualität Brandenburg (sqb)** offers a wide range of programmes and information to lecturers.

You can find the current workshop programme online: www.faszination-lehre.de

12.2 For new Teachers

With the *Teaching Professionals Programme*, the **Potsdam Graduate School** offers a targeted further qualification in academic teaching. You can also find out more about support, further education and networking at: www.uni-potsdam.de/de/pogs

12.3 E-Learning

The work of the **Department Teaching & Media at the ZfQ** aims to improve the quality of studies through the sustainable integration of E-Learning into the teaching at University of Potsdam.

You can find out all about the various offers for designing teaching and using digital media (in teaching) at:
<https://uni-potsdam.de/zfq/lehre-und-medien/>