

PUBLISHED COURSE ANALYSIS



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A course analysis has been carried out and published by the course convener.

The Karlstad University evaluation tool is owned by the Professional Development Unit and is managed by the systems group for educational administration.

Advanced Quantum Mechanics, 7.5 ETCS cr. (FYAD04)
Course convener: Jürgen Fuchs

Basic LADOK data

Course Code: FYAD04
Application Code: 35810
Semester: HT-20
Start Week: 202046
End Week: 202102
Pace of Study: 50%
Form of Study: Campus

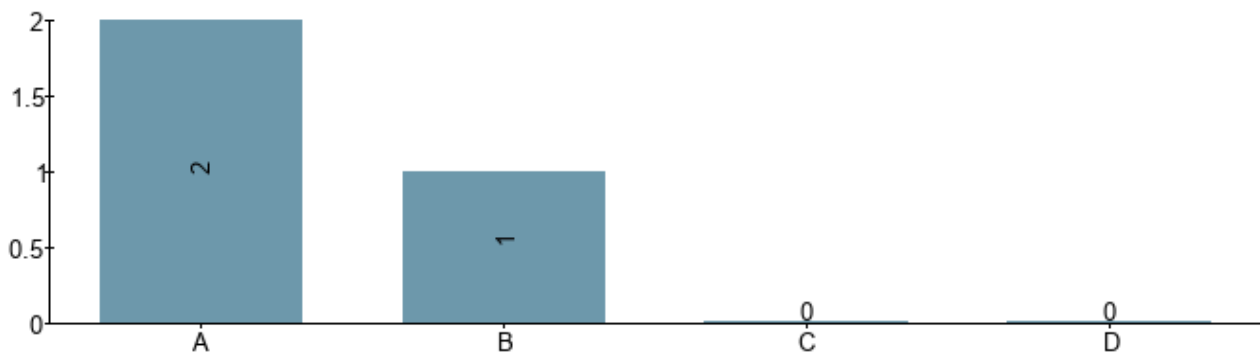
Course Data

Number of questionnaires answered: 3
Number of first registrations^[1]: 5

Changes suggested in the course analysis of the previous course date:

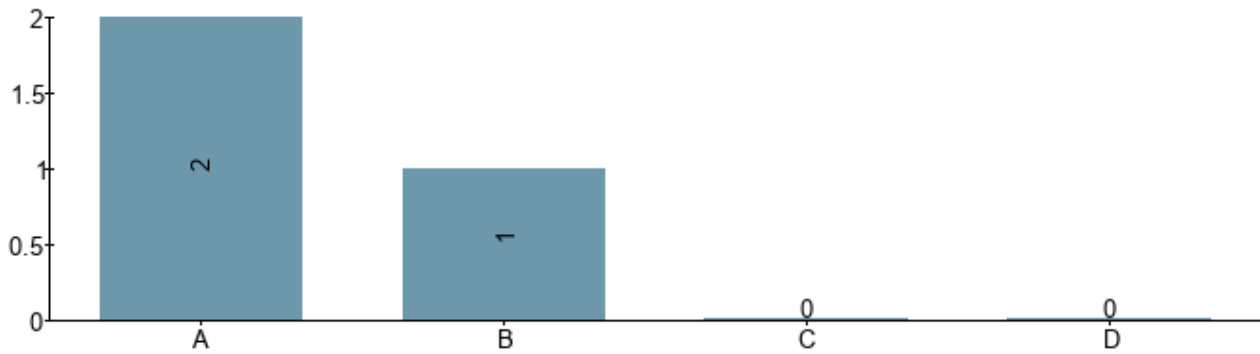
None.

1. The contents and structure of the course has supported the achievement of the learning outcomes



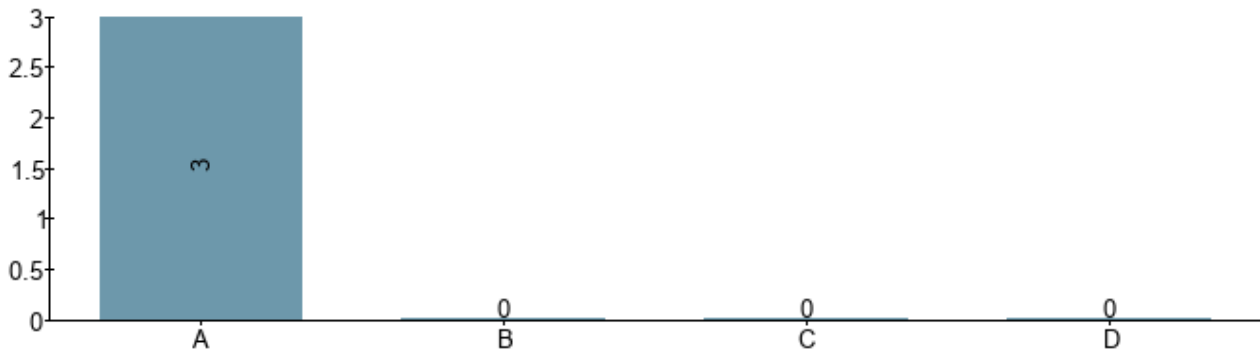
- A) To a very large extent
- B) To a large extent
- C) To some extent
- D) To a little extent or not at all

2. The assessments included in the course have given me the opportunity to demonstrate my achievement of the learning outcomes



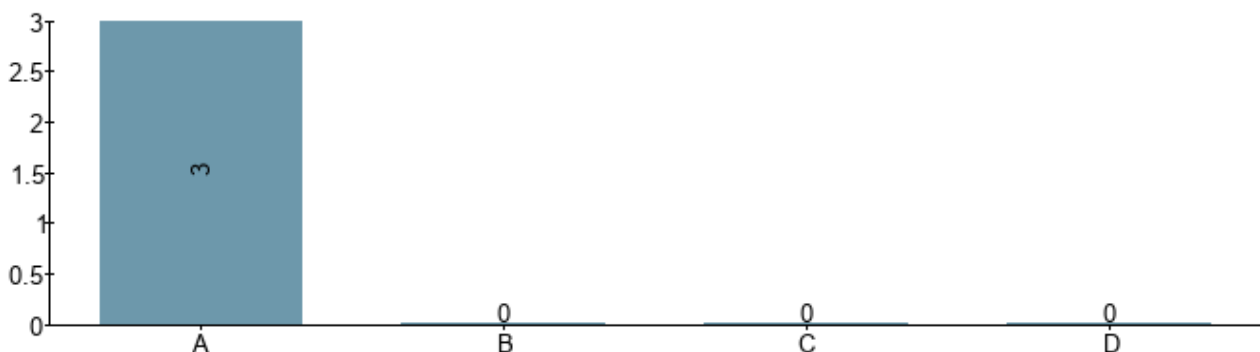
- A) To a very large extent
- B) To a large extent
- C) To some extent
- D) To a little extent or not at all

3. My workload (including scheduled activities and independent work) during the course has been



- A) 40 hours per week or more (or 20 per week or more for courses given as half-time studies, 10 hours or more for cour
- B) Between 30 and 39 hours per week (or between 15 and 19 hours for courses given as half-time studies, or between 8
- C) Between 20 and 29 hours per week (or between 10 and 14 hours for courses given as half-time studies, or between 5
- D) Less than 20 hours per week (or less than 10 hours per week for courses given as half-time studies, or less than 5 h

4. During the course, I have experienced the reception from teachers and other staff as professional



- A) To a very large extent
- B) To a large extent
- C) To some extent
- D) To a little extent or not at all

Analysis based on course evaluation, including comments fields. If information has been collected in other ways, it should also be analysed here. Any effect of joint courses should be commented

on.

Of the five students registered, only four actually followed the course. All four gave valuable input in an oral evaluation, and three of them in addition in the electronic evaluation.

The course had to be given online via zoom. Albeit the course has not been designed for online teaching, this worked very well. The students based their presentations on files which they shared in zoom. On the negative side, on average the students asked somewhat fewer questions, partly during lectures, but in particular during student presentations.

Presentation skills were higher in the beginning than in previous years (one of the students attributed this to experience with presentations from the courses Analytic mechanics and Quantum physics II), but still they improved considerably during the course.

As in previous years the students were satisfied with practically all aspects of the course, including examination ("plenty of opportunities to demonstrate achievement of the learning outcomes. Bonus points for detailed comments on the home assignments and feedback on the presentations."). They think that all components of the course should be kept.

Again as in previous years the workload for the students was high ("was hard to keep it under 20 hours in a week with both homeworks, presentations" / "during the last week the work load was too high"). Two students suggested to reduce the number of presentations; this has actually already been done in years with five or more students, but with less than five students it would imply an undesired change in the character of the course.

Suggestions for changes to the next course date.

- 1) Adapt the relative weight of different homework exercises.
- 2) Provide additional sources, e.g. original articles, for some of the student presentations.

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1. **Number of first registrations for a course:** First registration = the first time a student registers for a specific course.