

# 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.

*Quantum Physics I, 7.5 ETCS cr. (FYGB07)*

*Course convener: Jürgen Fuchs*

## Basic LADOK data

Course Code: FYGB07

Application Code: 32415

Semester: VT-19

Start Week: 201914

End Week: 201923

Pace of Study: 50%

Form of Study: Campus

## Course Data

Number of questionnaires answered: 5

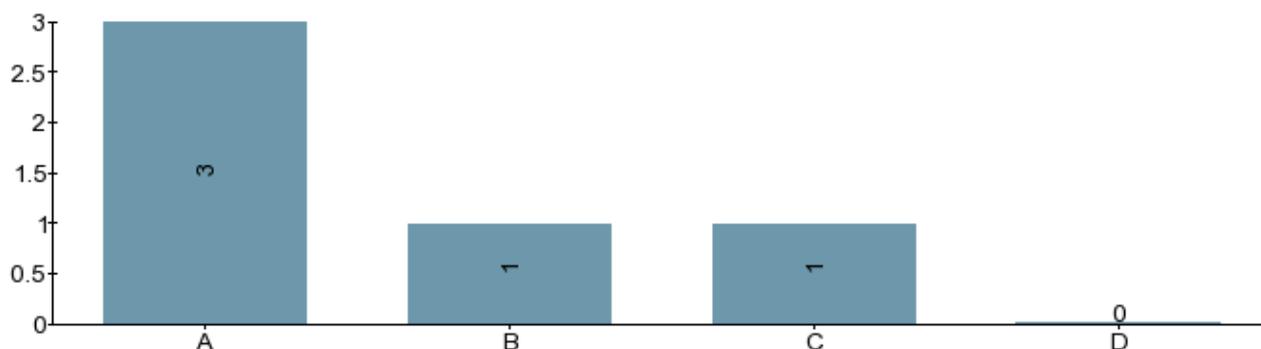
Number of first registrations<sup>[1]</sup>: 13

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

- 1) 3 "duggor" instead of 2.
- 2) Add more comments on the book by Griffiths on the home page of the course.
- 3) Possibly increase slightly the number of points allocated to Part 1 of the written exam.

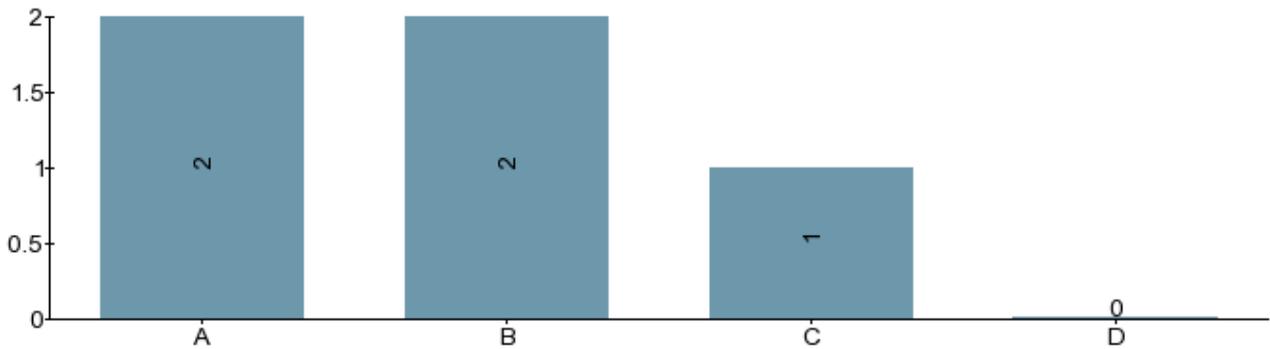
The suggested change 1) was implemented, and 2) to some extent. 3) was not implemented, because it seems that change 1) is already sufficient for increasing the students' awareness about the conceptual grounds of the subject.

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



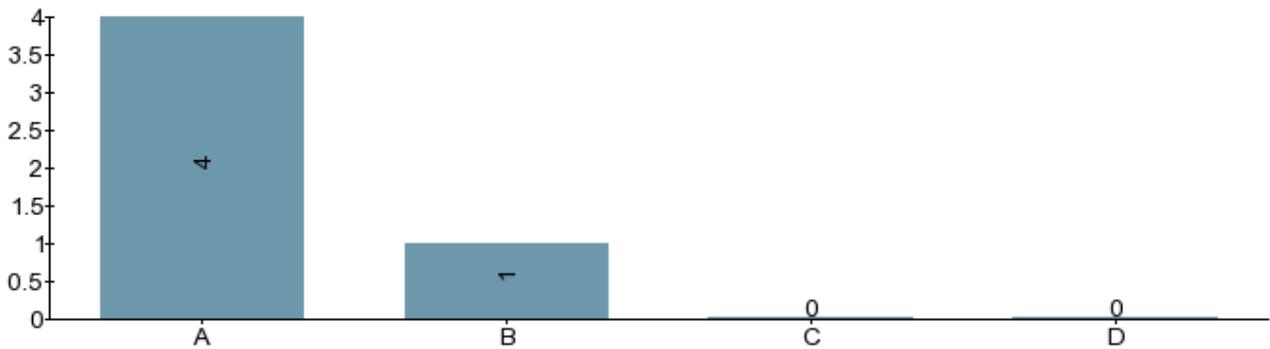
- A) To a very large extent
- B) To a large extent
- C) To some extent
- D) To a little extent or not at all

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



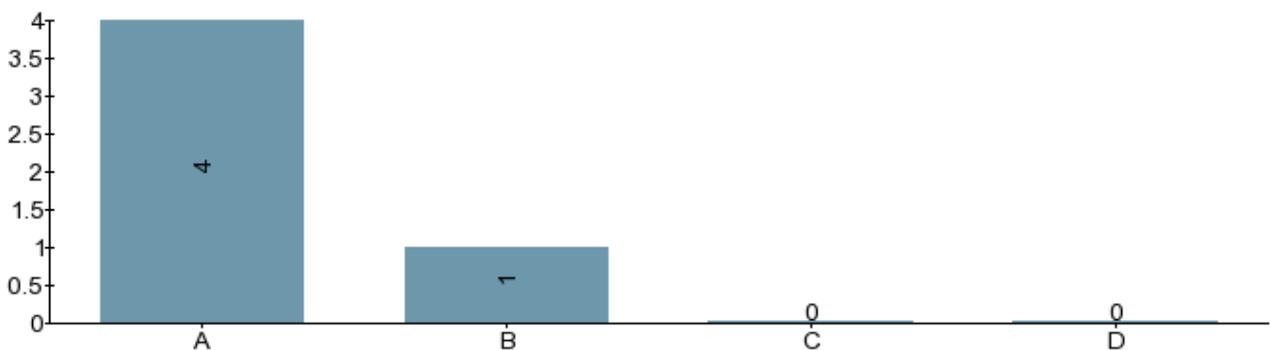
- A) To a very large extent
- B) To a large extent
- C) To some extent
- D) To a little extent or not at all

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 courses given as part-time studies)
- B) Between 30 and 39 hours per week (or between 15 and 19 hours for courses given as half-time studies, or between 10 and 14 hours for courses given as part-time studies)
- C) Between 20 and 29 hours per week (or between 10 and 14 hours for courses given as half-time studies, or between 5 and 9 hours for courses given as part-time studies)
- 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 hours per week for courses given as part-time studies)

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

**should also be analysed here. Any effect of joint courses should be commented on.**

As happens often with this course, the opinions of the students were rather mixed on various aspects, in particular concerning the workload ("About 300% harder than the courses we have with the other programs." / "Rätt arbetsbelastning.")

In any case, most students were satisfied with the course. ("Väldigt nöjd med denna kurs, bra med 2 presentationer och 3 duggor. 10/10 måste jag säga, väldigt jobbig och tidskrävande men samtidigt lika givande.")

Some of the students did not like the textbook, and one of them recommended to switch to the book by Griffiths. The Griffiths book has indeed some advantages, but after having taken a closer look I still prefer to only recommend it as a secondary source.

A problem with the course is that quite a few of the students have too little background knowledge about linear algebra and about Fourier transforms. The latter has become more severe this year, owing to the fact that the course "Komplex analys och transformer" (MAGB61) is now given in parallel with the quantum mechanics course rather than at an earlier stage.

**Suggestions for changes to the next course date.**

Give a more detailed introduction to background material from linear algebra and Fourier transforms, early during the course.

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