PUBLISHED COURSE ANALYSIS

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, Student Centre.

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

Basic LADOK data

Course Code:	FYAD04
Application Code:	30386
Semester:	HT-17
Start Week:	201745
End Week:	201803
Pace of Study:	50%
Form of Study:	Campus

Course Data

Number of questionnaires answered: 3

Number of first registrations[1]:   3

Changes suggested in the course analysis of the previous course date:
(1) Change the literature to the most recent edition of Sakurai-Napolitano and adapt the reading instructions accordingly.
(2) Add another introductory lecture on Chapter 3, reduce the time allocated to the introductory lecture on Chapter 4.
(3) Improve the distribution of homework problems, paying better attention to the variations in their degree of difficulty.
(4) Better temporal correlation between lectures and deadlines for homework problems.

Comments:
(1) is no longer relevant, because the previous edition of the book is again available for purchase.
(2), (3) and (4) were largely implemented.

1. During the course I developed the knowledge, skills and other competencies described in the learning outcomes.
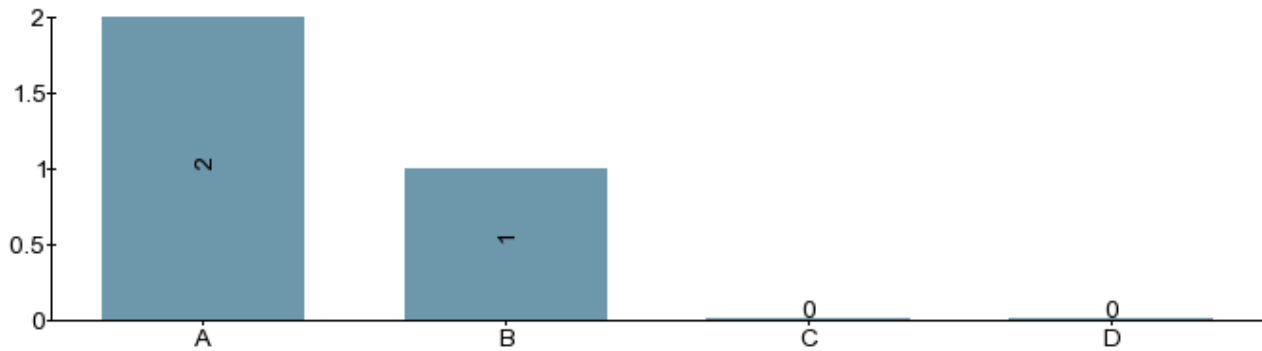
	A	B	C	D
Count	2	1	0	0

A) To a very great extent
B) To a great extent
C) To a certain extent
D) To a very little extent/Not at all

2. In the examinations, I had the opportunity to demonstrate if I have acquired the knowledge, skills and other competencies described in the learning outcomes.
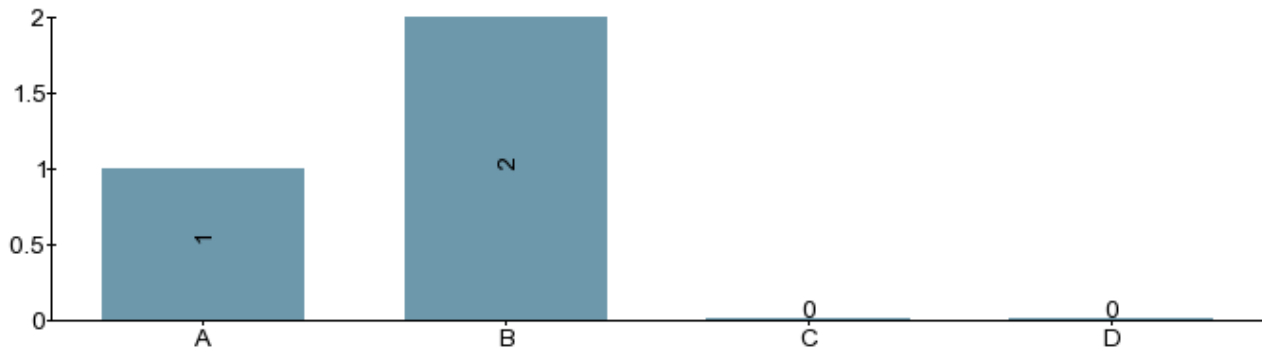
	A	B	C	D
Count	1	2	0	0

A) To a very great extent
B) To a great extent
C) To a certain extent
D) To a very little extent/Not at all

3. On average, I spent the following number of hours on coursework per week:

	A	B	C	D
Count	1	2	0	0
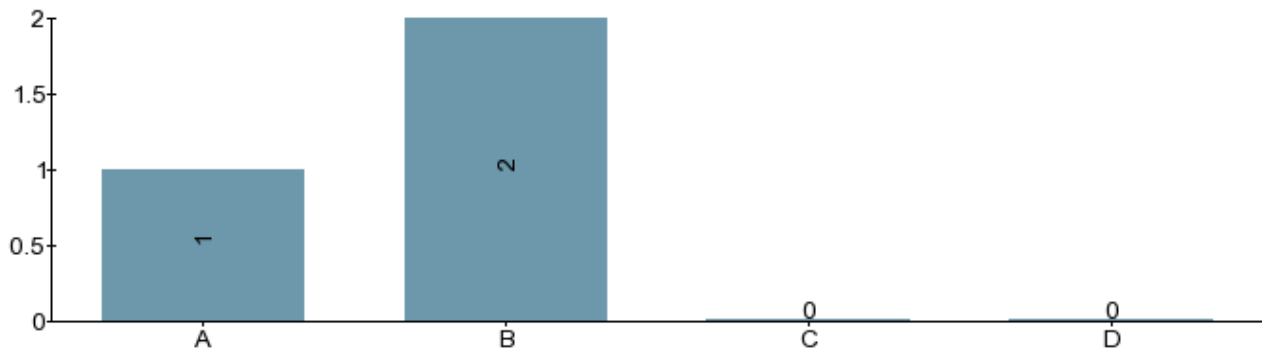
A) More than 40 hours (or more than 20 hrs at 50% study pace, more than 10 hrs at 25% study pace)
B) Between 30-39 hours (or between 15-19 at 50% study pace, between 8-10 at 25% study pace)
C) Between 20-29 hours (or between 10-14 at 50% study pace, between 5-7 at 25% study pace)
D) Less than 20 hours (or less than 10 at 50% study pace, less than 5 at 25% study pace)

4. During the course, I have found that teachers and other staff have been:
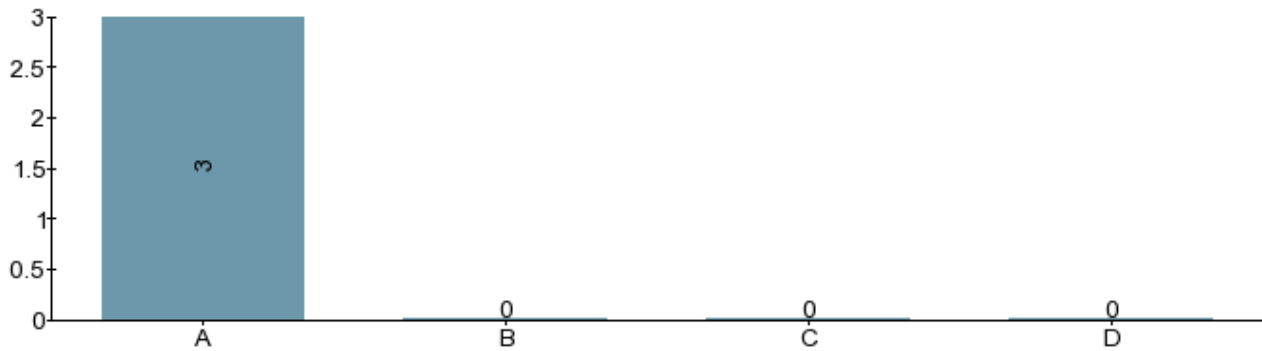
A) Professional and very accommodating
B) Professional and accommodating
C) Professional
D) Deficient

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.

The course was considered as difficult and time-consuming by the students, but this was accepted as unavoidable, On the other hand, the students found some of the sessions too long, which sometimes made it hard for them to keep up the focus.

All three students filled in the electronic evaluation form. Still, their most relevant comments were made orally in an addittonal evaluation meeting (taking place on January 19). The most important ones were:
(a) There is a certain overlap with the course Kvantfysik II; specifically, time-independent perturbation theory is treated in that course.
(b) In contrast to some of the students in the previous year, all students liked the course book.
(c) Using the exercise sessions primarily for the discussion of homework problems is ok.
(d) Having one individualized homework problem was much appreciated.
(e) One of the students was not familiar at all with the basics of group theory.

Suggestions for changes to the next course date.

(1) Reduce the maximal length of sessions, e.g. by spreading the presentations over a larger number of days.

(2) Treat time-independent perturbation theory only cursory in a lecture, rather than in student presentations.

(3) In the introduction to chapter 3, give a crash course on pertinent aspects of group theory.

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