

## Kursanalys för SK2411

Datum för kursanalysen	2020-03-17
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### Sida 1: Kvantitativ analys

Läsår:	2020
Läsperiod(er):	VT-2020

Kursansvarig:	Valdas Pasiskevicius
Lärare: Föreläsare	Valdas Pasiskevicius
Övningsassistenter	Patrick Mutter
Labbassistenter	Fredrik Laurell, Kjell Moelster
Övriga inblandade lärare	Max Yan

Antal registrerade studenter	7 st
Prestationsgrad, * % (t.o.m. ovan datum)	100 %
Examinationsgrad, ** % (t.o.m. ovan datum)	100 %

\* Antalet presterade poäng hittills på kursen dividerat med antalet möjliga poäng för de registrerade studenterna vid gällande datum.

\*\* Andel studenter av de registrerade som klarat samtliga kurskrav vid gällande datum.

**OBS! När du skickar in din kursanalys, bifoga aktuell kursplan.**

## Sida 2: Kvalitativ analys

### Kursens pedagogiska utveckling

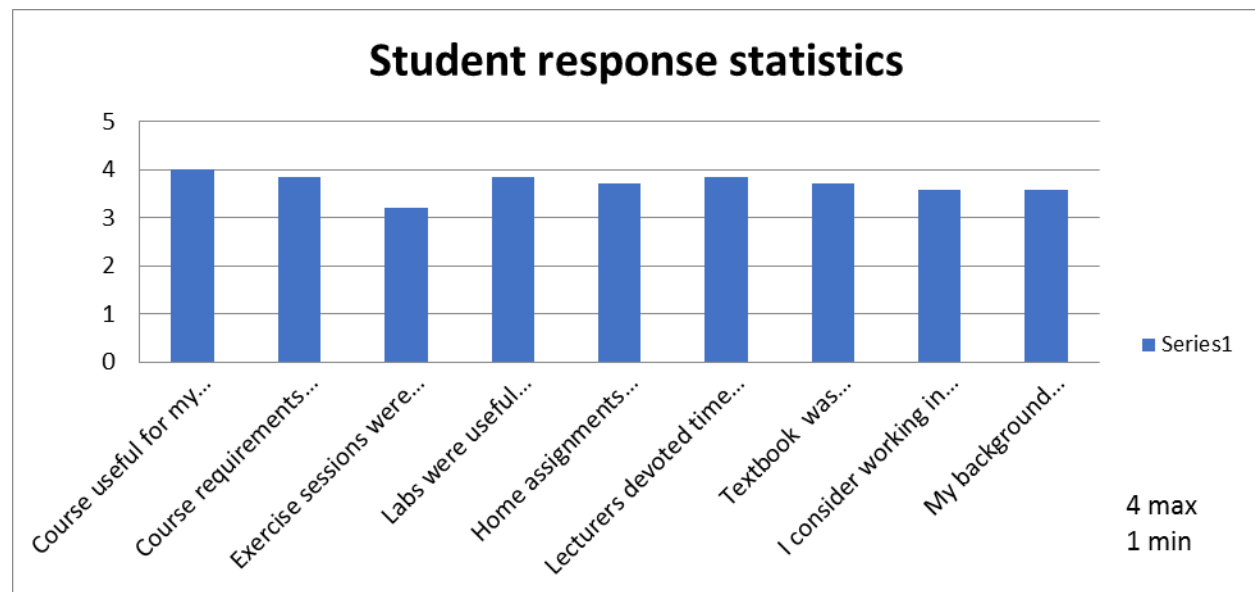
Redogör för eventuella förändringar införda utifrån förra årets kursanalys.

1. Lecture notes have been updated with new developments in the field.
2. Homework exercises were given and graded.
3. With introduction of homework exercises the structure of total point allocation has been changed to reflect the additional effort required for doing homework.
4. The course material flow and lecture sequence has been modified due to external circumstances. This proved to be beneficial due to better logical sequence as compared to textbook arrangement. It also allowed for better alignment of the course material with the labs.
5. The course website has been updated.

### Studenternas syn på kursen

Redogör för studenternas syn på kursen (dokumenterad genom kursenkät, kursnämndsmöten, intervjuer och/eller annan lämplig metod).

The student questionnaire has been given during exam. All students provided answers. The statistics is shown below.



From the answers it is clear that the students perceive the course as very useful for their education and their future careers. Actually, large proportion of students who came to the first exam answered that they consider, in the future, working in the field of optics and lasers. Some students felt that their background knowledge in optics could have been better. The labs were very appreciated. The textbook and the course materials were considered as very complete. The exercise sessions have somewhat lower mark and students felt that the new teaching assistant needed more practice and confidence. Next year, these points will clearly be improved.

### Kursansvarigs syn på kursen

Sammanfatta hur utförandet och resultatet av kursen gått, samt tolka/analysera studenternas syn på kursen.

From 2020, the course is an elective course. The class of 2020 was interested and engaged in the subject. Motivation of the students was high, higher than in previous years. Homework tasks have been introduced following student wishes from previous year. To encourage home studies the homework tasks were graded, and the grade average contributed to the final grading results for the whole course. Homework contributed positively to more continuous learning and more active participation of the students during lectures and exercises. Due to external circumstances we needed to slightly modify the lecture sequence in 2020. This proved positive in terms of more logical flow topics and better alignment with the labs. For the labs, students need certain background knowledge which in the textbook comes rather late and previously we needed to shift labs as close to the end of the course as possible. With the new distribution of the topics this is not a problem anymore. We intend to keep this topic flow in the future. In 2020 we had new teaching assistant for exercises, with somewhat limited experience in teaching. Considering this, the overall exercise session flow was positive and will improve further. SK2411 has been shifted to P3 as planned in 2019. This allowed to avoid overlap with Quantum electronics course and made more options available for the students choosing studies in the broader field of lasers and quantum electronics. This is much more logical alignment than we had before.

### Förändringar inför nästa år

Föreslå vilka förändringar du planerar att göra för att främja kursens pedagogiska utveckling och kvalitet.

Introduction of new mandatory course Light-matter interaction should be very positive for the SK2411. In 2020 we had only one student in SK2411 who took the mandatory course and his background knowledge level was markedly improved. We can expect that in the future most of the students joining SK2411 will have attended Light matter interaction course a year before. For the next year we will keep the new topic flow as in 2020.