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## Report - IK2215 - 2019-12-18

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Respondents: 1  
Answer Count: 1  
Answer Frequency: 100.00 %

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Please note that there is only one respondent to this form: the person that performs the course analysis.

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**Course analysis carried out by (name, e-mail):**

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**COURSE DESIGN**

**Briefly describe the course design (learning activities, examinations) and any changes that have been implemented since the last course offering.**

We use a mix of learning activities in the course, something which has worked really well over several years now. The learning activities are based on 10 lectures, 5 teacher-lead networking labs, and one project assignment during the later parts of the course where all different topics are brought together in practice. The course ends with a final written exam, graded A-F.

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**THE STUDENT'S WORKLOAD**

**Does the students' workload correspond to the expected level (40 hours/1.5 credits)? If there is a significant deviation from the expected, what can be the reason?**

The course evaluation had a rather low number of participants, but, according to most of those who answered, the workload seems to be reasonable. The intended workload has not changed over the last years.

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**THE STUDENTS' RESULTS**

**How well have the students succeeded on the course? If there are significant differences compared to previous course offerings, what can be the reason?**

The students' results after the exam were overall good. Close to 100% pass the labs and the project. Almost 70% of passed the written exam, which is about the same as last year. 40% of the students who took the exam scored a grade C or higher. Compared to earlier years, the examination grade has gone down somewhat, from around 80% before 2018 to around 70% 2018-2019. An explanation might be that we have updated parts of the theoretical material (e.g., lecture slides) and slightly raised the bar for what can be considered advanced internetworking compared to basic internetworking (which should be prior knowledge).

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**OVERALL IMPRESSION OF THE LEARNING ENVIRONMENT**

**What is your overall impression of the learning environment in the polar diagrams, for example in terms of the students' experience of meaningfulness, comprehensibility and manageability? If there are significant differences between different groups of students, what can be the reason?**

The general impression is that the course works well from a learning perspective. More or less all of the responses are rated as an average around 6 out of 7. Meaningfulness and comprehensibility are slightly higher than manageability. Question 17 and 20 (both related to manageability) are somewhat lower, 5.2 in average. The explanation to 17 (sufficient background knowledge) is probably that we have phased out some material that can be considered as basic rather than advanced. The explanation to 20 (opportunities to influence course activities) is likely that it is only in the project assignment this opportunity is given, and that the project is done in groups of several students. We are glad to note that 6 (The atmosphere on the course was open and inclusive) had the highest score (6.5).

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#### **ANALYSIS OF THE LEARNING ENVIRONMENT**

**Can you identify some stronger or weaker areas of the learning environment in the polar diagram - or in the response to each statement - respectively? Do they have an explanation?**

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The polar diagrams give a good indication that the course is well organized in a way that supports the learning. There are several comments from students that the practical learning activities (labs, project) really help when it comes to deep learning.

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#### **ANSWERS TO OPEN QUESTIONS**

**What emerges in the students' answers to the open questions? Is there any good advice to future course participants that you want to pass on?**

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There is a lot of positive feedback on labs and project assignment, which indicates that the students really appreciate these hands-on learning activities where the theoretical concepts are put into practice. It is also quite clear that the labs and the project require rather thorough preparation to become meaningful as a learning experience.

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#### **PRIORITY COURSE DEVELOPMENT**

**What aspects of the course should primarily be developed? How could these aspects be developed in the short or long term?**

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We plan to introduce more on-line lab assignments where students can experiment with networking equipment in a virtualized environment. This will make it possible for students to do practical work to a larger extent and on an individual basis, compared to the current practical assignments which are done during scheduled class hours in a physical networking lab.

It is a matter of redesigning the existing labs so that some of them can be carried out on-line instead of in the physical networking lab.

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