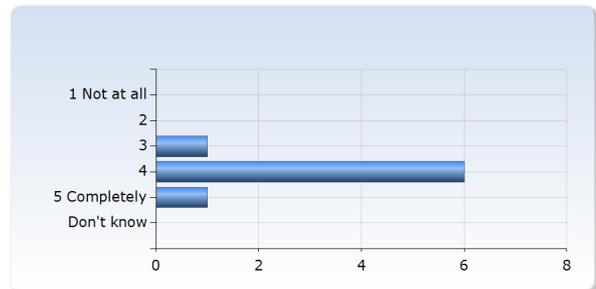


## FK7064 - Bild- och systemanalys - HT2017

Respondents: 18  
Answer Count: 8  
Answer Frequency: 44.44 %

### 5. Overall impression

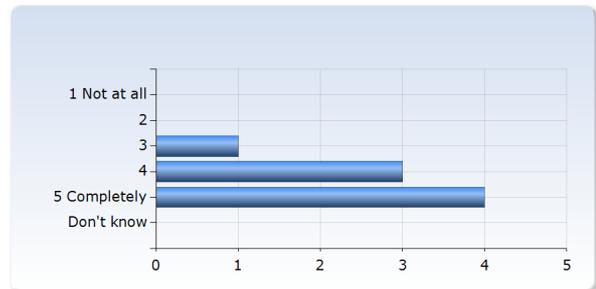
| Overall I am satisfied with this course | Number of Responses |
|---|---------------------|
| 1 Not at all                            | 0 (0.0%)            |
| 2                                       | 0 (0.0%)            |
| 3                                       | 1 (12.5%)           |
| 4                                       | 6 (75.0%)           |
| 5 Completely                            | 1 (12.5%)           |
| Don't know                              | 0 (0.0%)            |
| Total                                   | 8 (100.0%)          |



### 6. Student contribution

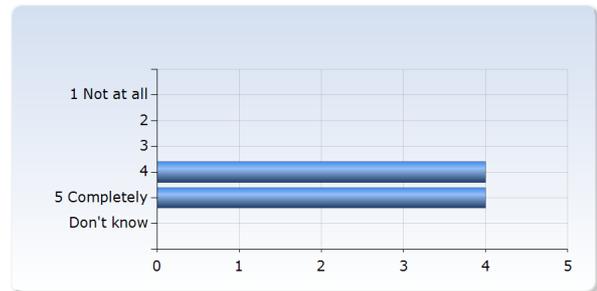
#### I am satisfied with my own effort in the course

| I am satisfied with my own effort in the course | Number of Responses |
|---|---------------------|
| 1 Not at all                                    | 0 (0.0%)            |
| 2   | 0 (0.0%)            |
| 3   | 1 (12.5%)           |
| 4   | 3 (37.5%)           |
| 5 Completely                                    | 4 (50.0%)           |
| Don't know                                      | 0 (0.0%)            |
| Total   | 8 (100.0%)          |



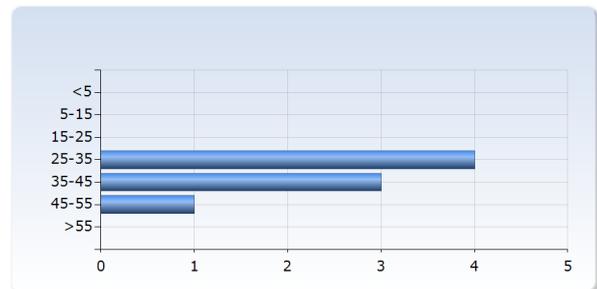
## I took responsibility for my own learning in the course

| I took responsibility for my own learning in the course | Number of Responses |
|---|---------------------|
| 1 Not at all  | 0 (0.0%)            |
| 2   | 0 (0.0%)            |
| 3   | 0 (0.0%)            |
| 4   | 4 (50.0%)           |
| 5 Completely  | 4 (50.0%)           |
| Don't know  | 0 (0.0%)            |
| Total   | 8 (100.0%)          |



## 7. Work load

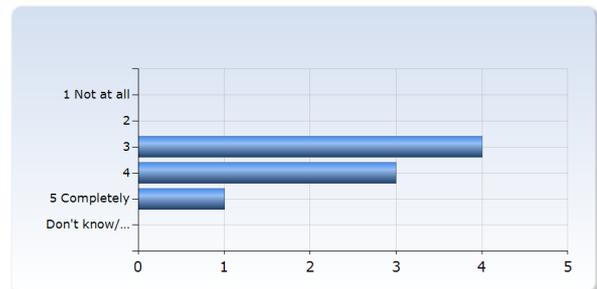
| Indicate how many hours per week on average you have spent on the course, including self-studies and scheduled study time | Number of Responses |
|---|---------------------|
| <5  | 0 (0.0%)            |
| 5-15  | 0 (0.0%)            |
| 15-25   | 0 (0.0%)            |
| 25-35   | 4 (50.0%)           |
| 35-45   | 3 (37.5%)           |
| 45-55   | 1 (12.5%)           |
| >55   | 0 (0.0%)            |
| Total   | 8 (100.0%)          |



## 8. Clear aims

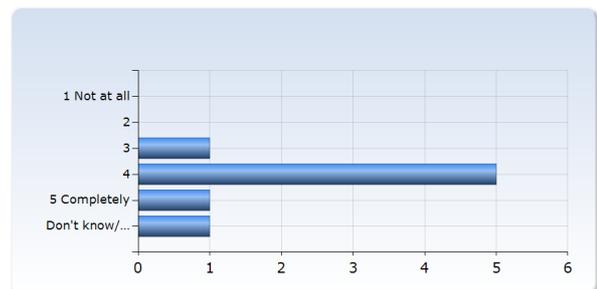
### It was clear to me what I was expected to learn

| It was clear to me what I was expected to learn | Number of Responses |
|---|---------------------|
| 1 Not at all                                    | 0 (0.0%)            |
| 2   | 0 (0.0%)            |
| 3   | 4 (50.0%)           |
| 4   | 3 (37.5%)           |
| 5 Completely                                    | 1 (12.5%)           |
| Don't know/ Not relevant                        | 0 (0.0%)            |
| Total   | 8 (100.0%)          |



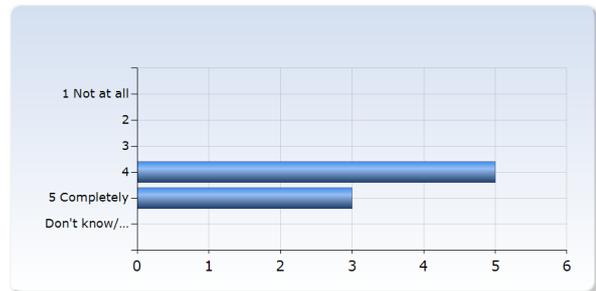
### I felt that the course content and teaching methods were relevant to the learning outcomes

| I felt that the course content and teaching methods were relevant to the learning outcomes | Number of Responses |
|--|---------------------|
| 1 Not at all   | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 1 (12.5%)           |
| 4  | 5 (62.5%)           |
| 5 Completely   | 1 (12.5%)           |
| Don't know/ Not relevant   | 1 (12.5%)           |
| Total  | 8 (100.0%)          |



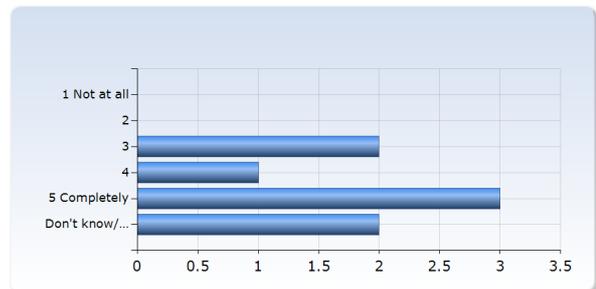
## The examination tested how well I had achieved the learning outcomes

| The examination tested how well I had achieved the learning outcomes | Number of Responses |
|--|---------------------|
| 1 Not at all   | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 0 (0.0%)            |
| 4  | 5 (62.5%)           |
| 5 Completely   | 3 (37.5%)           |
| Don't know/<br>Not relevant  | 0 (0.0%)            |
| Total  | 8 (100.0%)          |



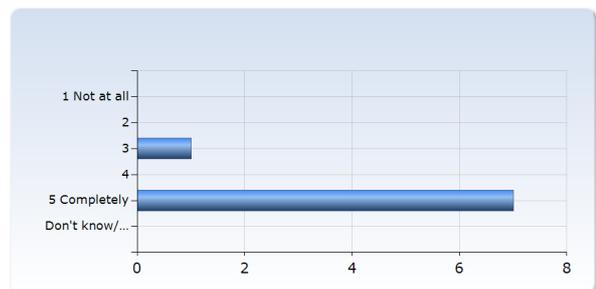
## The course corresponded to my expectations

| The course corresponded to my expectations | Number of Responses |
|--|---------------------|
| 1 Not at all                               | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 2 (25.0%)           |
| 4  | 1 (12.5%)           |
| 5 Completely                               | 3 (37.5%)           |
| Don't know/<br>Not relevant                | 2 (25.0%)           |
| Total                                      | 8 (100.0%)          |



## I feel that I will have use of what I have learnt after my studies

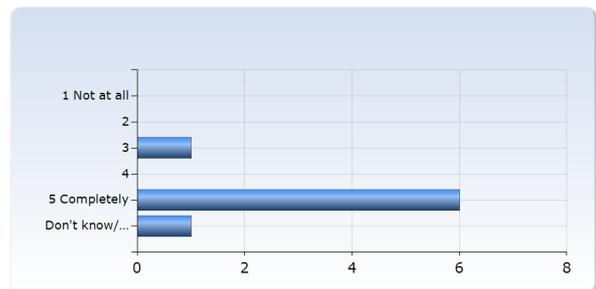
| I feel that I will have use of what I have learnt after my studies | Number of Responses |
|--|---------------------|
| 1 Not at all   | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 1 (12.5%)           |
| 4  | 0 (0.0%)            |
| 5 Completely   | 7 (87.5%)           |
| Don't know/<br>Not relevant  | 0 (0.0%)            |
| Total  | 8 (100.0%)          |



## 9. Good teaching

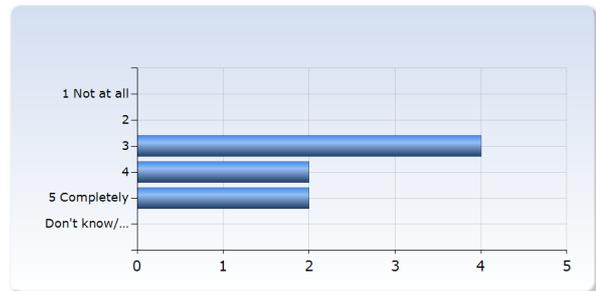
### The course prerequisites were sufficient to follow the course

| The course prerequisites were sufficient to follow the course | Number of Responses |
|---|---------------------|
| 1 Not at all  | 0 (0.0%)            |
| 2   | 0 (0.0%)            |
| 3   | 1 (12.5%)           |
| 4   | 0 (0.0%)            |
| 5 Completely  | 6 (75.0%)           |
| Don't know/<br>Not relevant                                   | 1 (12.5%)           |
| Total   | 8 (100.0%)          |



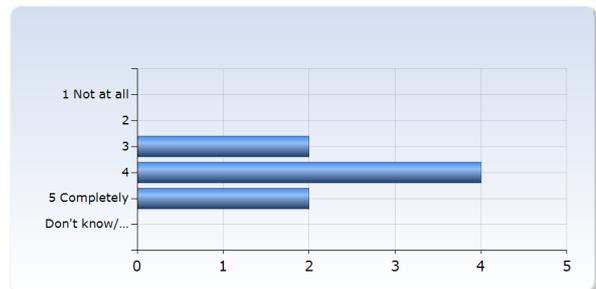
## I felt that the course was well structured

| I felt that the course was well structured | Number of Responses |
|--|---------------------|
| 1 Not at all                               | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 4 (50.0%)           |
| 4  | 2 (25.0%)           |
| 5 Completely                               | 2 (25.0%)           |
| Don't know/ Not relevant                   | 0 (0.0%)            |
| Total                                      | 8 (100.0%)          |



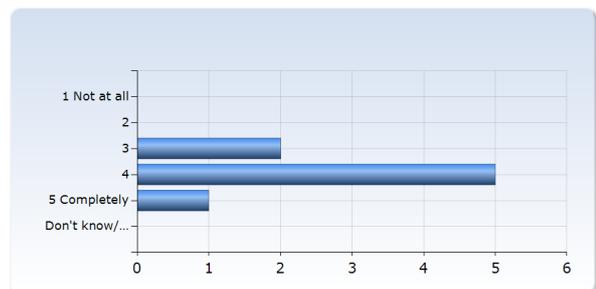
## I felt that the teachers have helped me to reach the learning outcomes

| I felt that the teachers have helped me to reach the learning outcomes | Number of Responses |
|--|---------------------|
| 1 Not at all   | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 2 (25.0%)           |
| 4  | 4 (50.0%)           |
| 5 Completely   | 2 (25.0%)           |
| Don't know/ Not relevant   | 0 (0.0%)            |
| Total  | 8 (100.0%)          |



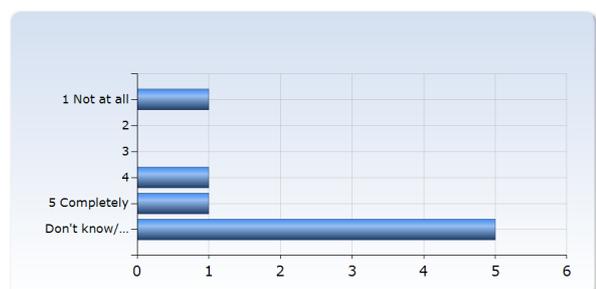
## I could understand what was being taught

| I could understand what was being taught | Number of Responses |
|--|---------------------|
| 1 Not at all                             | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 2 (25.0%)           |
| 4  | 5 (62.5%)           |
| 5 Completely                             | 1 (12.5%)           |
| Don't know/ Not relevant                 | 0 (0.0%)            |
| Total                                    | 8 (100.0%)          |



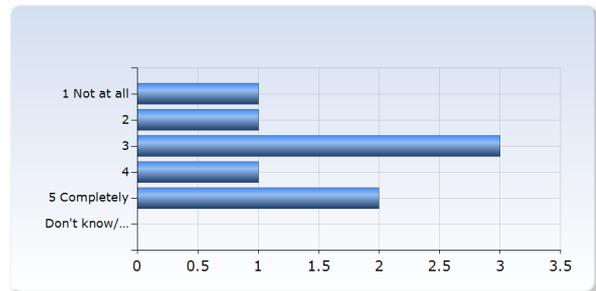
## I have received constructive feedback on my performance

| I have received constructive feedback on my performance | Number of Responses |
|---|---------------------|
| 1 Not at all  | 1 (12.5%)           |
| 2   | 0 (0.0%)            |
| 3   | 0 (0.0%)            |
| 4   | 1 (12.5%)           |
| 5 Completely  | 1 (12.5%)           |
| Don't know/ Not relevant                                | 5 (62.5%)           |
| Total   | 8 (100.0%)          |



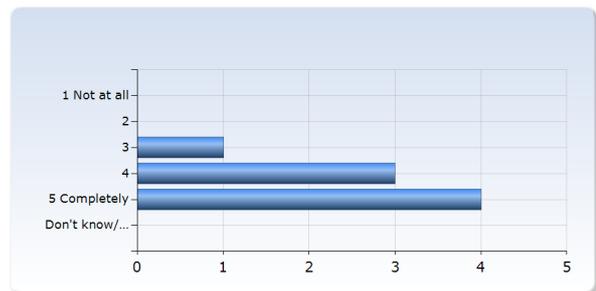
## I was encouraged to reflect on my learning during the course

| I was encouraged to reflect on my learning during the course | Number of Responses |
|--|---------------------|
| 1 Not at all   | 1 (12.5%)           |
| 2  | 1 (12.5%)           |
| 3  | 3 (37.5%)           |
| 4  | 1 (12.5%)           |
| 5 Completely   | 2 (25.0%)           |
| Don't know/<br>Not relevant                                  | 0 (0.0%)            |
| Total  | 8 (100.0%)          |



## The course material helped me in my work to achieve the learning outcomes (literature, e-resources etc.)

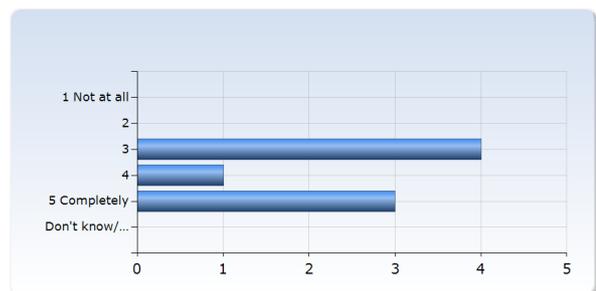
| The course material helped me in my work to achieve the learning outcomes (literature, e-resources etc.) | Number of Responses |
|--|---------------------|
| 1 Not at all   | 0 (0.0%)            |
| 2  | 0 (0.0%)            |
| 3  | 1 (12.5%)           |
| 4  | 3 (37.5%)           |
| 5 Completely   | 4 (50.0%)           |
| Don't know/<br>Not relevant  | 0 (0.0%)            |
| Total  | 8 (100.0%)          |



## 10. Administration and study environment

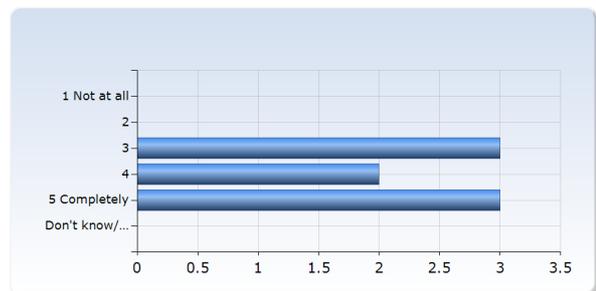
### I felt that the course was well organized

| I felt that the course was well organized | Number of Responses |
|---|---------------------|
| 1 Not at all                              | 0 (0.0%)            |
| 2   | 0 (0.0%)            |
| 3   | 4 (50.0%)           |
| 4   | 1 (12.5%)           |
| 5 Completely                              | 3 (37.5%)           |
| Don't know/<br>Not relevant               | 0 (0.0%)            |
| Total                                     | 8 (100.0%)          |



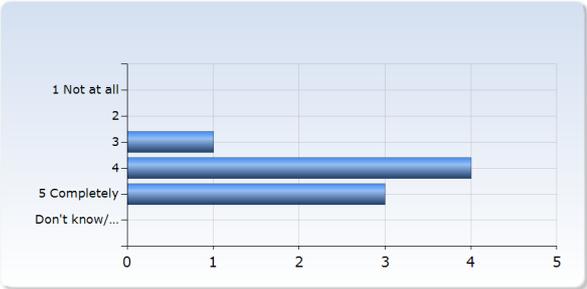
### I have been able to find the information I felt I needed before and during the course

| I have been able to find the information I felt I needed before and during the course | Number of Responses |
|---|---------------------|
| 1 Not at all  | 0 (0.0%)            |
| 2   | 0 (0.0%)            |
| 3   | 3 (37.5%)           |
| 4   | 2 (25.0%)           |
| 5 Completely  | 3 (37.5%)           |
| Don't know/<br>Not relevant   | 0 (0.0%)            |
| Total   | 8 (100.0%)          |



**I was able to get support when I needed it**

| <b>I was able to get support when I needed it</b> | <b>Number of Responses</b> |
|---|----------------------------|
| 1 Not at all                                      | 0 (0.0%)                   |
| 2   | 0 (0.0%)                   |
| 3   | 1 (12.5%)                  |
| 4   | 4 (50.0%)                  |
| 5 Completely                                      | 3 (37.5%)                  |
| Don't know/<br>Not relevant                       | 0 (0.0%)                   |
| <b>Total</b>                                      | <b>8 (100.0%)</b>          |



## **The teacher's reflection on the course: Image and system analysis FK7064 (9 hp)**

This course was given for the first time this year. It is a course in which the students are studying how images can be generated and improved for medical purposes. It was previously divided into two courses, which have been merged into one course, starting from this semester. It is the first course given on the advanced level in the Medical Physicist specialization program. Before attending this course the students have typically studied physics and mathematics for six semesters. On this course, the students are attending lectures, computer labs and calculation exercises. The course is being given at the facilities which Stockholm University disposes at the Karolinska University Hospital, at the Department of Medical Radiation Physics.

This year, 18 students were registered for the course and 16 of these wrote the exam on the 2<sup>nd</sup> of October 2017. Eight students answered the course evaluation form. The education in this course is divided into 56 lecture hours, three calculation exercises, three seminars and four laborations. The lectures are of the traditional type, quite strongly connected to the course book, *Digital image processing* by Gonzalez & Woods. This is a book issued in a relatively large series and it is used by many Universities and departments in different disciplines, all over the world. It has been used as a course book for many years already. On the calculation exercises we solve tasks listed at the end of each chapter which the students can try to answer by themselves first. On the computer laborations, the students are supposed to present the solutions to the tasks orally in front of the teacher or lab assistant in an attempt to improve their presentation skills. The laborations are mandatory and in order to be approved on the course the students must be approved not only on the exam, but also on all the laborations. My intention is to keep the students active as much as possible and I encourage them to solve exercises and experiment with different computer exercises rather than to dedicate themselves to passive reading.

The students have access to the course material through the Mondo system. Power-point presentations are prepared for each lecture. My impression is that the main part of the course contents (the part which belongs to the old ISA1 course) and level were well adapted for this group of students. The new course contents which were added this year will have to be better adapted to the first part of the course. We will improve several things already for the course which will be given during next year, based on the feedback expressed in the course evaluations.

### **Feedback on the students' comments**

#### *1. What was the best with the course?*

Based on the comments and degrees, it seems that the students liked the course contents and the course material. They write that the contents are very relevant for this education. In particular they appreciate the computer laborations.

#### *2. Which improvements do you suggest?*

The second part of the course needs to be better integrated with the first one. The lectures should be more interactive. There should be more general discussions connected to the calculation exercises.

*3. Which advice would you like to give to future students on this course?*

The students recommend to pay attention to the lectures given by guest lecturers

*4. Other comments*

Several students question the need for the statistics lectures. I will consider this for next year's course.

*5. Overall impression*

Overall good, but some dissatisfaction with the second part of the course.

*6. The effort made by the student*

Most students seem satisfied with their own effort. I have no comments on this.

*7. Work load*

It seems as if the students spent more or less 40 hours/week on this course which seems adequate.

*8. Well-defined course objectives*

The students seem satisfied on this point

*9. Good education*

The degree is overall good on this point even though some claim that the laborations on the second part of the course were not completely understandable.

*10. Administration and study environment*

Some students would have liked to have access to the lab instructions for the KTH laborations before the laborations.

*11. Equal treatment*

No discrimination reported

*12. Course lectures*

Half of the students give the lectures the second highest degree which I am pleased to read. Some students think that the lectures are a bit too long. Some students wish a closer connection between the lectures and calculation exercises. I will keep these aspects in mind for next year's course.

*13. Calculation exercises*

The calculation exercises seem to have been overall well received even though there seems to be room for improvement.

*14. Laborations*

There are quite varying answers on this question which makes it hard to conclude much. Most of the students think that the laborations were very good or good which is encouraging.

*15. Hand-in tasks*

There were no such tasks