SSA 4

Analysis Measurement Data Summary Mats van der Heijden

February 25, 2021

Goal

• The task was assigned to Vito and me to look into an extra exercise given by the course instructors. This course will count for 10% at the final grade. Because the task is quite big, it can be assumed that it takes more than 1 SSA.

Conclusion

- A start has been made at the extra assignment. It was very hard to gather all the information, because I suspect the course instructors also don't know exactly what to do with the assignment in corona times.
- I have tried to summarize what the exercise is. In this file an overview is given with information about the intention and purpose of the assignment.

Problems

- It was a bit hard working together with Vito, because we both didn't know exactly what the aim was for this SSA. Therefore we decided that Vito started with the SSA and I continued the work after he was finished.
- It was a busy week, therefore I could not do as much as I hoped for.

Follow up Steps

- Vito summarized MO1, MO2 and M03. The two biggest (MO4 and MO5) still have to be done. MO4 can be done for a next SSA.
- After the summaries an end assignment has to be made and also a report about that has to be written.
- It can be concluded this SSA is far from finished, but we know what we have to do.

Time Division

- 1.5 hours. Looking at the lectures and adjust Vito's summary.
- 2 hours. Getting through all the canvas info and the reader up till chapter 3.
- 0.5 hour on writing the SSA.

Overleaf Link

1 What is Analysis Measurement Data

The main goal of anamada is to gain skills in the section of significance and inaccuracies. The main subjects in this course are the following:

- Accuracy Analysis in Action
- Principles of Experimental Design
- Measurement Accuracy & 100% Confidence Intervals
- Fluctuations, Random errors & 68% Confidence Intervals
- Regression Modeling and Curve Fitting

These five items should also come in handy for this course, but not yet on this moment. Therefore it is a good thing to keep it in mind.

The whole course is set up out of a reader that is available on Canvas. Hereby are some useful videos available. At every chapter there are some exercises that can be made with MatLab. The answers for these exercises are also in the reader, so it is not mandatory to make these exercises.

2 What are the graded items

There will be a final assessment that has to be made during this course. In this assessment all the trainings need to be applied. A report/summary has to be written about this final assessment, this will be graded for 10%.

There is 1 report for the whole group and every group member will get the same grade. It is also good to know the project has to be handed in on 19 March (before the final report). It is the idea that every group-member should know exactly what the whole anameda is, however I advise to leave it to 2 people, probably Vito and I, to finish it. In this way the rest of the group can focus on other SSA's.

3 Summary Lectures

I also have been working on correcting the summary Vito made. I didn't see any mistakes, but I added some information. I also rephrased some sentences to clear it up. The summary parts that are finished can be seen on the canvas page together with the SSA's.