State Estimation and Filtering - Project Report
Authors: list here the authors' names

This is the template for the project report of the State Estimation and Filtering exam. There are no specific limitations to the length of the report, but you have to be coincise and write only what you think is necessary to illustrate the results you obtained. There is no need to rewrite the theory, but you must clearly state the methods and tools that are employed and justify your choices. It is important to discuss the project outcomes from both a qualitative and quantitative point of view.

The best way to illustrate the results is through figures. To include a Matlab figure in your report, the following commands are suggested:

```
print -depsc2 figure_name.eps  % if you are using LaTeX
print -dpdf figure_name.pdf    % if you are using PDFLaTeX
```

In Python, figures can be generated as follows:

```
plt.savefig("figure_name.eps", format="eps", bbox_inches="tight") % if you are using LaTeX
plt.savefig("figure_name.pdf", format="pdf", bbox_inches="tight") % if you are using PDFLaTeX
```

The content of the figures must be explained precisely in the text or in the caption, like in the following example:

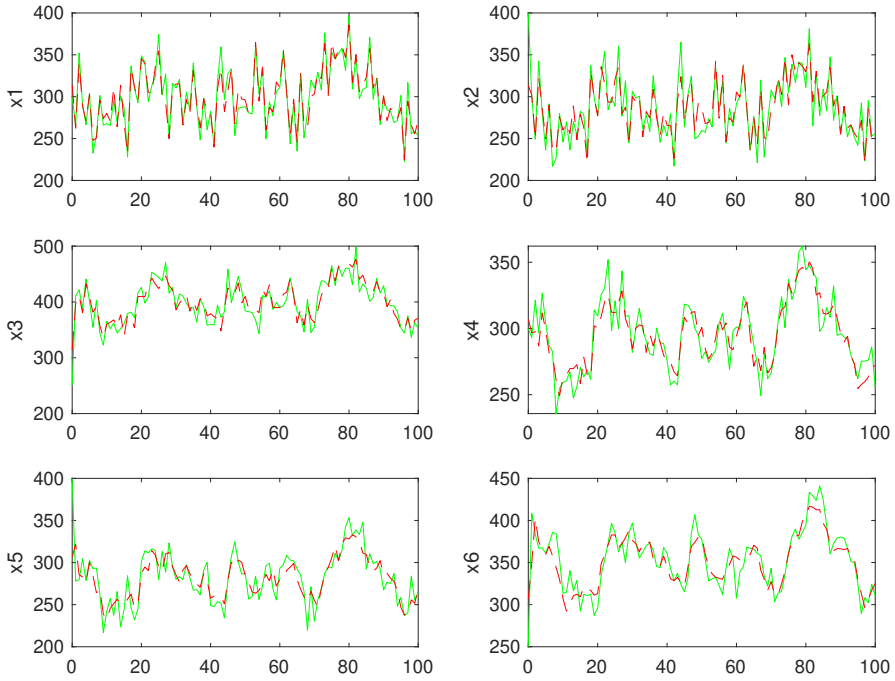


Figure 1: Estimation results for the six state variables: true state $x_i(t)$ (green), Kalman Filter estimates $\hat{x}_i(t|t)$ (red), for $i = 1, \ldots, 6$.

Divide the report in sections, addressing the different parts of the project work.

1 Part 1

...

2 Part 2

...

A final section summarizing the main conclusions drawn from the results will be appreciated.