Spirometry

General instructions

- **<u>Work individually – discussion of results & content is strongly discouraged. Any similarities in answers will lead to disqualification of the assignment for grading</u>**
- Plagiarism is strictly prohibited
- Do not use any toolbox/functions
- Add all the codes written to the report

Assignment

- Attached to this assignment are three spirometry datasets from subjects who were asked to perform forced expiration on a spirometer
- What parameters can be extracted from this data?
- Using relevant measures comment on the status of the subjects' respiratory system and display relevant plots.
- Can you comment on any disorders the subjects might have? Is the information available enough to differentiate between obstructive and restrictive lung diseases?

About the data

- The column indicates flow rate (L/s)
- Sampling rate 500 Hz
- Data credits withheld till end of exam deadline
- Dataset IDs: subj1.txt, subj2.txt, subj3.txt