SVV Flight Dynamics Grading 2020

This document contains the grading sheet that is used for the report for the Flight Dynamics assignment report. Partial grades can be given as well on the boundary of two columns in the grading sheet, e.g. resulting in a partial score of 75 rather than 70 or 80. For the assessment procedure and calculation of the final course grade see: 'Assessment'.

The grade for the report follows directly from the weighted averages of the partial grades in the grading sheet with the weights given there. The grade is the grade of the grading sheet divided by 10.

Flight Dynamics report grading sheet

	0	40	60	70	80	100
Report Overview 5%	Task division is missing	Report is not structured Many incorrect sentences Task division incomplete	Structure sufficient Several spelling and grammatical errors Task division present, but needs revision	Good structure Minor and spelling and grammatical errors Clear task division present	Good structure and layout, references included Few spelling and grammatical errors	Very good structure and layout, textbook style, including referencing No spelling and grammatical errors
Stationary measurements 20%	Results of measurements missing Description of methods to estimate required parameters missing No results for required parameters Assumptions missing	Results of measurements have large mistakes that are not explained Description of methods to estimate required parameters contains mistakes Results for required parameters incomplete Missing important assumptions	Results of measurements present but mistakes or unclear Description of methods to estimate required parameters contains small mistakes and no or wrong motivation Results for required parameters contain mistakes, explanation given for deviations Contains some important assumptions	Results of measurements are correct and discussed Description of methods to estimate required parameters correct and some motivation is given Results for required parameters correct and some discussion Most of the assumptions given (where possible)	Results of measurements are correct and compared to what is expected Good description of the methods to estimate required parameters and good motivation Results for required parameters are correct and discussed and related to expected values/characteristics Most assumptions given and discussed (where possible)	Results of measurements are shown in a clear way with excellent discussion, textbook style. Clear, unambiguous description of the methods to estimate required parameters, very well motivated. Results for required parameters are correct and clearly displayed. Excellent discussion with respect to expected values/characteristics All assumptions described and discussed (where possible) as in a textbook
Numerical model 25%	Assumptions and effects missing Equations missing Method missing No results given	Missing all main assumptions or wrong assumptions mentioned Effects of main assumptions partly missing or wrong Irrelevant numerical method used or mistakes in equations used Results do not make sense and no explanation is given	A few main assumptions are given Effects of assumptions are given, but no motivation of their possible effect on results Relevant numerical method used, Results are complete Results have an error that is addressed	Main assumptions are given Effects of main assumptions are described (where possible) Relevant numerical method used, with some motivation Results are complete and discussed Results have small errors or inaccuracies	Assumptions are complete Effects of assumptions are described (where possible) Motivation for the effects of assumptions on results is given Relevant numerical method used and motivated. Results are clearly displayed and are discussed Results are correct	All assumptions that can be expected Effect on results and motivation show creativity beyond what can be expected. Numerical method is tailored to reach high accuracy. Excellent display and discussion of results
Verification 25%	No unit tests No larger (system) tests No motivation for why these tests are sufficient. No plan for addressing discrepancies	One unit test performed and described Suggested larger (system) test with analytical model incomplete No description of the accuracy of the tests No motivation for why these tests are sufficient	Several unit tests or partial system tests performed, but with mistakes, Results reported Suggested larger (system) test has small mistakes, results reported Accuracy of at least one test given Tests do not cover the entire model.	Several unit tests and part]ial system tests performed and results reported Larger (system) test correctly implemented Results reported and discussed Accuracy of tests given, but with mistakes	Several unit tests are performed, discussion about what is done with test results Larger (system) test correct and motivated. Other larger tests suggested. Results are clearly described, it is mentioned what action is taken based on test result (if applicable)	Unit tests good, creativity shown in finding tests Larger system test correct and motivated, other system test designed (and implemented if feasible) Excellent description of results of tests and actions taken (if applicable).

				Tests cover most of the entire model but no motivation for why these tests are sufficient	Accuracy of tests given with some motivation Effort is made to show that tests cover the entire model	Accuracy of tests given and motivated Tests are shown to cover the entire model
Validation 25%	Validation missing No model improvement	Validation tests wrong or incomplete Discrepancies wrongly addressed Model improvement wrong	Validation tests sufficient, but with some errors or missing description Effort is made to explain discrepancies, some mistakes Effort is made for model improvement	Validation more than sufficient, room for improvement in description Discrepancies sufficiently addressed. Effort is made to relate them to assumptions or accuracy in model and data. Model improvement is performed	Validation test well described Discrepancies are addressed and related to assumptions or accuracy in model and data. Model improvement performed for relevant parameters and motivated	Validation tests good, excellent description of the results. Discrepancies are assessed fully consistently with description of assumptions and their effects, and the uncertainty in validation data Model improvement performed, optimal values obtained for relevant parameters.