

ME – 221

MATLAB[®] ASSIGNMENTS

SUBMISSION INSTRUCTIONS

You are expected to upload 2 files:

- 1) A **report** (pdf file) that addresses the questions and showing plots generated by the MATLAB script along with explanations.
- 2) An archive file (zip, 7-zip, rar, etc.) containing the **MATLAB file** (.m file) written to simulate the systems and all accompanying functions.

File naming: Surname_SCIPER_AssignmentX.pdf and Surname_SCIPER_AssignmentX.m

Report instructions:

- 1) Each student should submit his own **unique** report and MATLAB files via **Moodle**. Submissions should be done only through **Moodle** platform. You are not allowed to submit the files via email.
- 2) The report should be written in English and typed. Handwritten, and scanned reports/figures are not allowed. Equations should also be typed (e.g. Latex, Mathtype, Word equation editor).
- 3) The report should include the following.
 - a. A **cover page** including assignment number, full name, and SCIPER.
 - b. A **detailed and full solution** including
 - i. Detailed mathematical derivations and formulations.
 - ii. If assumptions and approximations were made, state them.
 - iii. Provide figures and graphics to support your solution.
 - iv. Provide explanations for the provided figures (figures without explanations and discussions are meaningless).
 - c. **Summary and conclusions** which can be included throughout the report or as a separate section at the end of the report.

Notes:

- You are requested to treat the problems as engineers. Some of the problems do not have a unique solution or interpretation.
- Pay attention to the figures, they should be clear. Do not forget axis labels, scaling, and units.
- Late submissions are **not allowed**. We will tolerate a justified 1h delay, only once!
- If you have problems with the submission, please contact the person in charge of the assignments (Lorenzo Nosedà: lorenzo.nosedà@epfl.ch)

Grading:

- There are three possible grades for the assignments: Fail (0 points), Pass (1 point), Distinction (1.5 points).
- If the sum of the grades of all assignments is 3 or more, you will receive a 0.25 bonus.
- If the sum of the grades of all assignments is 4 or more, you will receive a 0.5 bonus.
- Please refer to the table below if this is unclear.

| Assignment 1 | Assignment 2 | Assignment 3 | Total points | Bonus |
|---------------------|---------------------|---------------------|---------------------|--------------|
| Pass (+1) | Pass (+1) | Pass (+1) | 3 | 0.25 |
| Pass (+1) | Fail (+0) | Pass (+1) | 2 | 0 |
| Distinction (+1.5) | Pass (+1) | Pass (+1) | 3.5 | 0.25 |
| Distinction (+1.5) | Distinction (+1.5) | Fail (+0) | 3 | 0.25 |
| Distinction (+1.5) | Pass (+1) | Distinction (+1.5) | 4 | 0.5 |
| Distinction (+1.5) | Distinction (+1.5) | Distinction (+1.5) | 4.5 | 0.5 |