



Grading Criteria for Reports Physics Laboratory I/II (Vp141/Vp241)

The initial grade for the report is 45 (with maximum at 50). Marks are subtracted/added according to the following list.

General Impression

- unclear structure (missing title page, organization of sections, poor layout): up to -4 marks
- language mistakes/typos: up to -3

Introduction (this part may closely follow the manual)

- missing basic formulas (that are used or referred to in other parts of the report): -3 each

Measurement Procedure (this part may closely follow the manual)

- no clear sketch/description of the measurement setup: -3
- no information about the precision of measurement devices: -3 each

Results and Data Presentation

- no units or incorrect units (including those on graphs): -2 each
- unreadable graphs (e.g. graph area too small, scale of the axes inappropriate, too few ticks): up to -1.5 each graph; connecting measurement points by lines: -2 each graph
- poorly designed tables: up to -4
- no error bars on graphs (where they should be): up to -2 for each graph
- final result (i.e. the value of the quantity to be found) not given: -4
- uncertainty of the final result not indicated: -2 each
- no sample calculation/mistakes in calculations: up to -2 each
- if any part of the experiment is missing, marks are subtracted proportionally

Uncertainty Analysis and Calculations

- no uncertainty analysis (uncertainty discussion) at all: -20
- uncertainties not calculated: -2 for each quantity missing
- arithmetic mistakes: up to -1 each
- calculus mistakes (e.g. incorrectly calculated derivative): up to -2 each
- incorrect number of significant digits (too many digits in a result): -1 each

Conclusions

- creative/innovative suggestions, new original ideas improving the experiment, references to literature etc.: up to +8
- no attempt of identification of the sources of inaccuracies: up to -3
- no comment on the value of the measured quantity (comparison with available/theoretical data): up to -2
- no explanation in case of unreasonable results: up to -5