



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

The initial grade for the report is 45.

Marks are subtracted/added according to the following criteria.

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 follow the manual)

- missing **basic formulas** (that are used in the other parts of the report): -2 each

Measurement Procedure (this part may follow the manual)

- no clear sketch/description of the measurement setup: -2
- no information about **the precision of measurement devices**: -2 each
- merely copying measurement **procedure steps** from the manual, without a **brief summary of the main idea**: up to -2

Results and Data Presentation

- no **units** or incorrect units (**including those on graphs**): -1.5 each
- **unreadable graphs** (e.g. 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 -3
- 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 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 the final result)**: -1 each

Conclusions

- no conclusions/discussion at all: -20
- 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 -5
- no comment on the value of the measured quantity (comparison with available/theoretical data): up to -3
- no explanation in case of unreasonable results: up to -5
- references to Wikipedia, Wenku, etc.: -2 each