

# Laboratory Report Assessment Guide

## Prepare lab work:

- Read the experiment sheet.
- Prepare for a short quiz at the beginning of the first session.

## Guidelines to lab report writing and marking scheme:

- **Title page**  
The first page should contain only the title, your name, the name of your laboratory partner, the date, the section number of the laboratory, and the instructor's name.
- **Statement of Objectives:** [10 Marks]  
You should outline the objectives of the experiment in your own words.
- **Background and Summary:** [20 Marks]
  - \* A brief description of the theory with relevant equations needed for data analysis. [5 Marks]
  - \* A brief description of the experiment and the procedure in the student's own words. [5 Marks]
  - \* Statement of the results and uncertainty. [5 Marks]
  - \* A brief statement for comparison with accepted results. [5 Marks]
- **Methodology:** [20 Marks]
  - \* Presentation of a list of equipment and materials used in detail including the model number and make. [5 Marks]
  - \* A diagram or a sketch of the experiment setup. [5 Marks]

- \* Detailed description of the experimental procedure. [5 Marks]
- \* Statement of error sources. [5 Marks]
- **Data and Analysis of Results:** [20 Marks]
  - \* Concise presentation of data and results. [5 Marks]
  - \* Tables and figures numbered and titled. [5 Marks]
  - \* Detailed calculations. [5 Marks]
  - \* Error analysis. [5 Marks]
- **Discussion and Conclusion:** [20 Marks]
  - \* The student must describe what his/her results are, and compare them with the accepted values. [5 Marks]
  - \* Discuss possible methods to reduce uncertainties. [5 Marks]
  - \* State the relevant applications of the experiment. [5 Marks]
  - \* Draw conclusions (by explaining the meaning of the experiment and the implications of the results). [5 Marks]
- **References**

Proper citation of references must be made whenever called for. Improper or inadequate citation of references can lead to a deduction of up to 10% of the total grade.
- **Report Presentation:** [10 Marks]

The report must be typed and neatly presented.

**Total Mark: 100**