

Laboratory Report Format

The following standard format is most frequently used for EE laboratory exercises, which have multiple sections with different procedures and objectives:

1. Title page: course number, name and section number; lab experiment name and number; author name; date performed, lab partner(s) name(s), and the instructor's name.

2. Introduction: Provide the necessary background to the lab including the overall lab objectives (not the objectives of instructor for the student, but of the actual exercise itself), design specifications and approach. It should be about $\frac{1}{2}$ to 1 and $\frac{1}{2}$ pages, depending on the exercise. You should include schematic diagram, with explanation, or some prelab derivations.

3. Procedure: describe the procedures followed, including sufficient detail on the exercise setup for someone else to reproduce the work. You may have multiple subsections here, depending on the lab exercise.

4. Results and Analysis: have one formal section for each part of the lab which includes:

- state the principal results and discuss them. Compare all measured results with what was theoretically expected/estimated from prelab exercise and explain any differences.
- conclude each section/part--did you meet the purpose for that section/part? Elaborate, don't just write "yes" or "no".
- tabulate your data and produce necessary plots. Analyze the data and/or plots and make comments. Answer all questions given in the lab manual.

5. Conclusions: give technical conclusions. Restate the main objectives and how or to what degree they were achieved. What principles, laws and/or theory were validated by the experiment? Describe some applications of your results.

6. Appendix: include all hand calculations, extra graphs and plots, simulation results, etc.

7. Comments (Optional): suggest possible additional tasks that might improve the lab and provide a better/deeper understanding of the technical aspects.