

CIVIL ENGINEERING LAB REPORT GUIDELINES

Communication is the lifeblood of science. No matter how incredible or revolutionary your results or ideas, if you cannot present them so that other people can understand them, it is as if you have discovered nothing. The following format has been designed to clearly and succinctly communicate your findings. There may be other ways to report this, there may be better ways. But in this class, this format is *the* way. **If you do not follow the format, points will be deducted.** A good laboratory report does more than present data; it demonstrates the writer's comprehension of the concepts behind the data and the significance of the results. **Thus, no length is set.**

REPORT CONTENT

1. Title Page

- Name of experiment, lab number and course information
- Full typed names of lab partners
- Submission date

2. Introduction

- State the experimental objective and background.
- Explain the relevance and importance of the experiment (including actual engineering examples and applications). Why are you performing the experiment?

3. Technical Theory

- Explain the scientific principles that apply to the experiment and are relevant to the analysis and interpretation of results.
- Explain relevant equations.
 - Equations should be on their own separate line (use the equation editor).
 - The equation reference number should be right-justified.
 - Each variable should be defined the **first** time it is used (do **not** define with just units).
 - Equations are **referenced by number** in the *Results* section when describing how a particular quantity was determined.
 - Equation example:

$$\sigma = E\varepsilon$$

Where σ is the stress
 E is Young's Modulus
 ε is the strain

[1]

- Do not include the experimental procedure in this section.**
- Do not include equations specific to equipment.

4. Materials and Equipment

- Provide a description of the lab equipment (what it does and how it is used). Use **paragraph structure**. Do not use lists.
- Include and discuss equations that are specific to the lab equipment (i.e. specific strain gauge constants).
- You may need to rewrite some of the laboratory manual – do not assume the reader has access to it.
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