

# A VERY OFFICIAL AND PRETENTIOUS TITLE THAT SUMS UP YOUR PAPER

*Prepared for Submission for {insert class}*

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## ABSTRACT

*A required 200—250 word abstract starts on this line. Please insert here your abstract taking into account any comments from the reviewers. The abstract must be consistent with the contents of this paper.*

*HINT: Write this section LAST!*

## KEYWORDS

*A couple of keywords (3-5).*

## OVERVIEW OF TEMPLATE – DELETE THIS FOR YOUR REPORT

Welcome to the amazing world of L<sup>A</sup>T<sub>E</sub>X! I hope you find this outline useful and easy to use for you lab reports. A couple of notes to the user:

- This outline is meant to be just that: an outline. A report will not write itself, and L<sup>A</sup>T<sub>E</sub>X will be a struggle at first to those who have not used it before. Please plan your time accordingly.
- The bibliography is automatically imported to this document. All you need to do is make sure you are calling the correct document name. I would recommend using a citation generator like <https://www.mybib.com/> or Zotero to create your BibTeX entries.
- Your bibliography will *NOT* automatically populate—you must reference each entry in your paper at some point with `\cite{citation name}`.

Example:

*As clear to even the most casual observer, these findings are without fault [1].*

Additional features such as footnotes<sup>1</sup> and appendices A can be seen throughout this file.

Equations should be added as such:

$$\frac{1}{r} \frac{\partial}{\partial r} \left( r \frac{\partial \phi}{\partial r} \right) + \frac{1}{r^2} \frac{\partial^2 \phi}{\partial \theta^2} + \frac{\partial^2 \phi}{\partial z^2} - \frac{\nu \sigma_f}{v} \phi = \frac{1}{v} \frac{\partial \phi}{\partial t} \quad (1)$$

Use `$$` for small bits of information in-text, such as  $a = 3$ . Use `\nicefrac` to do inline equations:  $x = 5/7$

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<sup>1</sup>Which can be created like this.

Code will likely also need to be included in your report, and is traditionally included in an appendix. See Appendix B for an example of how to include code. Note that the syntax highlighting can be used on more than just Python, so be sure to highlight with the correct language. See [https://www.overleaf.com/learn/latex/Code\\_Highlighting\\_with\\_minted](https://www.overleaf.com/learn/latex/Code_Highlighting_with_minted) for more information.

Please remember the most important thing about L<sup>A</sup>T<sub>E</sub>X and college in general: *Google is your friend*. This template gives a general outline for what *I* think is very important to a report, but this is *your* document – please feel free to adjust the sections to whatever you feel is best for you.

## 1 INTRODUCTION

Things to consider:

- What is the topic?
- Start broad, then narrow down.
- How is this work relevant?
- What was goal of the experiment?

## 2 THEORY

- All general equations.
- How would you analyze your data?
- Could I read this paper with only rudimentary and understand the experiment?
- What are the other, outside factors that may affect the results?
- How do you process your data?
- How do you quantify the error?
- How do you quantify the efficacy?

### 2.1 Subsection of Theory

#### 2.1.1 Subsubsection of Theory

## 3 METHODOLOGY

### 3.1 Overview of Experimental Procedure

### 3.2 Data Processing

In this section, you should go into detail of how the formulae introduced in Section 2. Basically, you should walk through what you will be putting into Excel. All explicit calculations should be included in the Appendix.

Table I: Random Data Table

Column 1	Column 2	Column 3
Row 1, Cell 1	Row 1, Cell 2	Row 1, Cell 3
Row 2, Cell 1	Row 2, Cell 2	Row 2, Cell 3
Row 3, Cell 1	Row 3, Cell 2	Row 3, Cell 3

4 RESULTS

5 CONCLUSION

Wrap up the paper. Additional questions:

- How do the results relate to the real world?
- What are the next steps?
- How can the experiment be improved?

A FIRST APPENDIX

B CODE

```
1  # Define a function to calculate the square of a number
2  def square(number):
3      return number ** 2
4
5  # Input: Get a number from the user
6  try:
7      num = float(input("Enter a number: "))
8      result = square(num)
9      print(f"The square of {num} is {result}")
10 except ValueError:
11     print("Invalid input. Please enter a valid number.")
12
```

REFERENCES

[1] J. Doe, "A very scientific article," *Journal of Smart People with Big Egos*, 2023.