

ENH1301 Application Laboratory

LaTeX Tutorial

Objective:

Practice writing and compiling a LaTeX document using the most important features, including a cover page, table of contents, sections, mathematics, tables, figures, citations, and bibliography.

Page 1 – Cover Page

- Add a title using `\title{}`
- Add your name as author using `\author{}`
- Add today's date using `\date{}` (or `\date{\today}`)
- Show the cover page using `\maketitle`

Page 2 – Table of Contents

- Insert a Table of Contents using `\tableofcontents`
- Add a page break so that the next section starts on a new page.

Page 3 onwards – Main Content

Now start writing the main body of the document. You must include the following:

1. Sections & Subsections

- Add at least two sections (e.g., Introduction, Methodology).
- Add at least one subsection under each section.

2. Lists

- Add one bulleted list (itemize).
- Add one numbered list (enumerate).

3. Mathematics

- Write one inline equation (e.g., $E = mc^2$).
- Write one displayed equation (e.g., quadratic formula).

4. Table

- Create a table with at least 3 rows and 3 columns.
- Add a caption and label so that you can reference it later.

5. Figure

- Insert an image (any picture you like).
- Add a caption and label.
- Refer to the figure in your text using `\ref{}`.

6. Cross-Referencing

- In your text, mention “As shown in Table~`\ref{tab:example}` ...”
- Do the same for the figure.

7. Citations & References

- Create a separate `references.bib` file with at least 2 references (e.g., a book and an article).
- Cite them in the document using `\cite{}` or `\citet{}`.
- Add a Bibliography section at the end.

Compile your LaTeX code and export it as a PDF.