

Basic Document Structure Exercise

Guelma University LaTeX Course

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Objective

Familiarize students with basic LaTeX syntax and commands.

Tasks

1. Create a new document

Begin by setting up a basic document structure in LaTeX. Start with the `\documentclass{}` command, using the `article` class for simplicity. Add title elements such as the `\title{}`, `\author{}`, and `\date{}` commands to create a document title, author name, and date.

2. Section Headers and Formatting Text

Use sectioning commands like `\section{}`, `\subsection{}`, and `\subsubsection{}` to organize the document into different parts. Practice adding paragraphs by writing a few sentences of text within each section. Experiment with formatting options:

- Bold text: `\textbf{Bold Text}`
- Italics: `\textit{Italic Text}`
- Underline: `\underline{Underlined Text}`

3. Adding Comments

Use the `%` symbol to include comments in the code. Explain how comments help keep code organized and do not appear in the output. Add comments to explain different parts of the document, such as `% Document Title`, `% Author Information`, and `% Section 1`.

Example Code

Below is an example LaTeX code for this exercise:

```

\documentclass{article}

\title{Introduction to LaTeX}
\author{John Doe}
\date{\today}

\begin{document}

\maketitle % Print the title, author, and date

% Introduction section
\section{Introduction}
This is an introductory paragraph.

LaTeX makes it easy to format text with commands like \textbf{bold},
\textit{italics}, and \underline{underline}.

% Background section
\section{Background}
LaTeX uses a structured document format, allowing authors to focus on content
while handling formatting automatically.

\end{document}

```