LaTeX Cheat Sheet

Tratech GASS KNUST

March 2, 2024

- Document structure Commands
- 2 Content Commands and Usage
- Formatting Commands and Usage
- Section Commands and Usage
- 5 List Commands and Usage
- 6 Math Commands and Usage
- Images

Document Structure Commands

- \documentclass{...} To specify the overall layout of a document.
- \title{...} Sets the main title of the document.
- \author{...} Sets the author of the document.
- \date{\today} Sets the date to the current date.
- \begin{document} Initiates the document structure.
- \maketitle To display the preamble i.e. title, author , date ...
- \tableofcontents For table of contents

3 / 12

Content Commands and Usag

- % Indicate a comment
- \par It is used to create line breaks, similar to pressing "Enter" in a word processor
- \noindent To suppress the indentation
- \hspace To give a space horizontally
- \vspace To give a space vertically
- \centering To center block of text, images or diagrams etc.

Formatting Commands and Usage

- \textbf{...} Used to make the enclosed text bold
- \textit{...} Used to make the enclosed text italic
- \underline{...} Used to underline the enclosed text.

Section Commands and Usage

- \section{...} To define a new section in the document
- ullet \subsection $\{\ldots\}$ To define a new section under the main section
- ullet \subsubsection $\{\dots\}$ To define a new section under the subsection
- \section *{...} To create an unnumbered section or heading

6/12

List Commands and Usage

- \begin{itemize} Starts a bulleted list environment.
- \begin{enumerate} Initiates a numbered list environment.
- \begin{equation} Begins a mathematical equation environment.
- \begin{table} Initiates a table environment.
- \begin{figure} Starts a figure or graphic environment.

7 / 12

Math Commands and Usage

- \$... \$ For inserting mathematical expressions within a line a text
- \[... \] For inserting mathematical expressions to appear as a centered equation on its own line
- \dots For 3 dots (...)
- \sqrt{...} For inserting square root

8 / 12

Figures, Images Commands and Usage

- \usepackage{graphicx} Importing the graphicx package
- \usepackage{subfigure} Importing subfigures under a main figure
- \begin{figure} ... \end{figure} To Insert images, diagrams or illustrations
- \centering To center images, diagrams, illustrations or even block of text
- \includegraphics{image.jpg} To include external files eg. images
- \caption{Eg. This is an image} To indicate a caption

9/12

Formatting the image

- \includegraphics[height=200pt, width=100pt]{image.jpg} Including a figure and specifying the height and width
- \begin{figure}[!t] ... \end{figure} Place the image at the top of the page
- \begin\figure\figure\figure\ Place the image at the bottom of the page
- \begin{figure}[!here] ... \end{figure} Place the image at the exact place of the editor (h means here)
- \subfigure{\includegraphics{image.jpg}} To add a subimage or a subfigure
- \subfigure[This is a subcaption] {\includegraphics{image.jpg}} - To add a sub caption to a figure

Inserting image example



PERSONA

PERSONA

24

Value

V

(a) Mass Passport

(b) Event Calendar

Figure: Fliers

11 / 12

LaTeX Code for inserting image

```
(begin{figure}[!t]
   \centering
       \subfigure[Mass
       Passport \[ \includegraphics \[ height=100pt, \]
       width=100pt]{images/fliers/passport.jpg}}
       \hspace{5pt}
       \subfigure[Event
       Calendar \ \includegraphics \ height=100pt,
       width=100pt]{images/fliers/persco event.jpg}}
   \caption{Fliers}
```

Figure: Code for inserting image (figure 1)

Tratech GASS KNUST LaTeX Cheat Sheet March 2, 2024 12 / 12