Guide for `thesisdteti` Class File

Introduction to LaTeX

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Introduction

Why thesisdteti?

- LaTeX is based on the idea that it is better to leave document design to document designers, that is the community maintaining thesisdteti class file.
- Authors should focus only with the writing of the documents.
- Open source class file allows everyone, including authors, to contribute back and improve the class file.

Where is `thesisdteti`?

`thesisdteti` is available at GitHub repository (here). Altough it is more recommended to use Git to stay updated, a static `.zip` file is available (here).

Document Class

Document Class Options

Default Setting

```
\documentclass[master,bahasa,table,xcdraw]{thesisdtetiugm}
```

Setting Options

- <bachelor/master/doctoral>: degree
- <bahasa/english>: language
- <table>,<xcdraw> (optional): supports coloring table

External Files

\input

The \input{PATH/TO/FILENAME.tex} inserts valid LaTeX code from the specified file.

\include

The \include{PATH/TO/FILENAME.tex} inserts valid LaTeX code from the specified file by inserting on different page. \include allows the use of \includeonly to specify list of file that will be included upon rendering.

Figures

Using `\includegraphics`

```
\includegraphics[width=10cm]{images/sample-fig.png}
```

Setting `\includegraphics`

- `<width=WIDTHcm>` (optional): adjust the width of the image
- `<FILE_NAME>.ext`: the extension supports various type such as `.png`, `.jpg`, and even `.pdf`.

It is more recommended to not using both `<height>` and `<scale>` parameters. Stick with known `<width>` or page area for the images and let the document decides the height. Alternatively, not using any parameter is also possible to let LaTeX decides the resize.

Codes

Using `\lstinputlisting`

```
\lstinputlisting[%
  language=Python,%
  caption={CAPTION \textit{SUPPORT ITALIC}.},%
  label={lst:FILE_NAME}]%
  {codes/FILE_NAME.py}
```

Using a Custom Function of `\inputeq`

`\inputeq` is a custom command to import equation from separate file. The downside of this function is it uses multiple calls of open, read, and find to look for the equation, making the compilation slightly slower but almost negligible. Read `main/equations/equations.tex` for the detail of the syntax in creating your own textttequations.tex file.

Syntax for `\inputeq`

```
\inputeq{equations/equations}{miqp-obj}
```