

# Thesis Typesetting with L<sup>A</sup>T<sub>E</sub>X

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L<sup>A</sup>T<sub>E</sub>X Intro

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<https://hadisafari.ir/courses/latex>



## Extra Tools

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2 University of Tehran Engineering College Thesis Templates



# Quotes

There are some environments available for quoting texts in  $\LaTeX$ :

- `quote` for a short quotation, or a series of small quotes, separated by blank lines
- `quotation` for use with longer quotations, of more than one paragraph, because it indents the first line of each paragraph
- `verse` is for quotations where line breaks are important, such as poetry



# Bibliography

- $\text{Bib}\TeX$  can be used to automatically create bibliography from a bibliographic database (`.bib` file) based on the citations inside document and a bibliographic style file (`.bst` file)
- see [https://en.wikibooks.org/wiki/LaTeX/Bibliography\\_Management](https://en.wikibooks.org/wiki/LaTeX/Bibliography_Management)
- to create Persian bibliography using  $\text{bib}\TeX$ , it's possible to use `persian-bib` package



# Glossaries & Acronyms

- to create glossaries & list of acronyms you can use `glossaries` package
- to create index you can use `makeidx` package
- `xindy` package can be used to sort the lists
- see <https://en.wikibooks.org/wiki/LaTeX/Glossary> & <https://en.wikibooks.org/wiki/LaTeX/Indexing>



# Glossaries & Acronyms

## Usage

- `\usepackage[xindy,acronym,nonumberlist=true]{glossaries}` (after `hyperref`) & `\usepackage{makeidx}`
- `\newglossary[glg]{label}{gls}{glo}{title}` to create a new glossary (default: `main`)
- `\makeglossaries` & `\makeindex` (preamble, after previous step, before next step) to create glossaries
- `\newglossaryentry{label}{name={wname},description={wdesc},type={glossary}}` is used to define new words (and `\longnewglossaryentry` command)
- `\newacronym[options]{label}{short}{long}` is used to define new abbreviations
- use `\gls{label}` (sing.) and `\glspl{label}` (pl.) in document (or even `\Gls{label}`, `\Glspl{label}`, or even `\glsymbol{label}`)
- use `\index{entry}` in document to index a word
- `\printglossary[type=label]` to print a glossary
- `\printindex` to print index



# Glossaries & Acronyms

Usage: Cont.

- compile the `.tex` document
- run `xindy` on `.gls` or equivalent files to create `.gls` or equivalent files
- run `makeindex`
- compile the `.tex` document again



# Notes

- `todonotes` package provides facilities to write ToDo-notes
- `\todo{note}`
- `\missingfigure{note}`
- you may want to use `obeyDraft` option



# Multifile

- use `\include{file}` or `\input{file}` (which works with `\includeonly{filelist}`, too) to separate large  $\LaTeX$  documents to multiple smaller files
- see [https://en.wikibooks.org/wiki/LaTeX/Modular\\_Documents](https://en.wikibooks.org/wiki/LaTeX/Modular_Documents)



# University of Tehran Engineering College Thesis Templates

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# University of Tehran Engineering College Thesis Templates

- Engineering College of University of Tehran offers a set of guidelines to thesis writing, available at <http://egufa.ut.ac.ir>
- there are some  $\text{\LaTeX}$  templates written based on those guidelines



## Tehran-Thesis

- Sina Momken, MSc. in Computer Engineering – Algorithms and Computation
- <https://github.com/sinamomken/tehran-thesis>



# Boostan

- Abolfazl Diyanat, MSc. in Computer Engineering – Software Engineering
- <https://github.com/abodin/Boostan>
- older version: <http://www.parsilatex.com/forum/SMF/index.php?topic=6023.msg30845#msg30845>

