

# elegant-polimi-thesis documentation

This chapter is the result of the documentation generated from the source code. Since it's not strictly needed to use the template – most of the functions that are to be used are straightforward – it's quite barebones.

The intended section order is as follows:

1. frontmatter
  - a. toc
  - b. list-of-figures
  - c. list-of-tables
  - d. nomenclature
2. mainmatter
3. backmatter
4. acknowledgements
5. appendix

The acknowledgements section can be moved in frontmatter, as one prefers (or as the advisor requests).

## User designated functions

keywords-banner .....	1
polimi-thesis .....	1
polimi-article-format-thesis .....	3
polimi-executive-summary .....	5
frontmatter .....	6
acknowledgements .....	6
mainmatter .....	7
appendix .....	7
backmatter .....	7
nomenclature .....	7

theorems-init .....	8
subfigure .....	8
bluepoli .....	9
toc .....	9
list-of-figures .....	9
list-of-tables .....	9
theorem .....	9
proposition .....	9
lemma .....	9
remark .....	9
proof .....	9

## keywords-banner

Draw the keywords banner.

### Parameters

`keywords-banner`(body: `content`) -> `content`

**body** `content`

Body of the banner.

## polimi-thesis

Main formatting function of the template.

## Parameters

```
polimi-thesis(  
  title: str,  
  author: str,  
  advisor: str,  
  coadvisor: str arr,  
  academic-year: str,  
  tutor: str,  
  cycle: str,  
  chair: str,  
  student-id: str,  
  course: str,  
  logo: path,  
  frontispiece: str,  
  body  
) -> content
```

**title** str

Title of the thesis.

Default: "Thesis Title"

**author** str

Author of the thesis.

Default: "Name Surname"

**advisor** str

Advisor of the thesis.

Default: "Advisor"

**coadvisor** str or arr

Coadvisor(s) of the thesis.

Default: "Coadvisor"

**academic-year** str

Academic year of the thesis. If empty, defaults to '2024-2025'.

Default: ""

**tutor** str

Tutor of the thesis.

Default: "Tutor"

**cycle**    `str`

Cycle of the thesis.

Default: `"XXV"`

**chair**    `str`

Chair of the thesis.

Default: `"Chair"`

**student-id**    `str`

Student ID.

Default: `"00000000"`

**course**    `str`

Student course.

Default: `"Course Engineering"`

**logo**    `path`

Path of the main logo of the thesis (default: "Scuola di Ingegneria Industriale e dell'Informazione").

Default: `"img/logo_ingegneria.svg"`

**frontispiece**    `str`

Frontispiece of the thesis. Can be either: `phd`, `deib-phd`, `cs-eng-master` or `classical-master`.

Default: `"phd"`

## **polimi-article-format-thesis**

The thesis article format styling function.

## Parameters

```
polimi-article-format-thesis(  
  title: str,  
  author: str,  
  advisor: str,  
  coadvisor: str array,  
  academic-year: str,  
  student-id: str,  
  course: str,  
  abstract: content,  
  keywords: str,  
  logo: path,  
  body  
) -> content
```

**title** str

Title of the thesis.

Default: "Thesis Title"

**author** str

Author of the thesis.

Default: "Name Surname"

**advisor** str

Advisor of the thesis.

Default: "Prof. Name Surname"

**coadvisor** str or array

Coadvisor(s) of the thesis.

Default: "Prof. Name Surname"

**academic-year** str

Academic year of the thesis. If empty, defaults to '2024-2025'.

Default: ""

**student-id** str

Student ID.

Default: "00000000"

**course**    `str`

Student course.

Default: "XXXXXXXXXXXX Engineering - Ingegneria XXXXXXXXXXXX"

**abstract**    `content`

Abstract.

Default: []

**keywords**    `str`

Keywords, that appear below the abstract (and in the PDF metadata).

Default: ""

**logo**    `path`

Logo of the thesis.

Default: "img/logo\_ingegneria.svg"

## **polimi-executive-summary**

The executive summary styling function.

### **Parameters**

```
polimi-executive-summary(  
  title: str,  
  author: str,  
  advisor: str,  
  coadvisor: str array,  
  academic-year: str,  
  course: str,  
  logo: path,  
  body  
) -> content
```

**title**    `str`

Title of the thesis.

Default: "Thesis Title"

**author** `str`

Author of the thesis.

Default: "Name Surname"

**advisor** `str`

Advisor of the thesis.

Default: "Prof. Name Surname"

**coadvisor** `str` or `array`

Coadvisor(s) of the thesis.

Default: "Prof. Name Surname"

**academic-year** `str`

Academic year of the thesis. If empty, defaults to '2024-2025'.

Default: ""

**course** `str`

Student course.

Default: "XXXXXXXXXX Engineering - Ingegneria XXXXXXXXXXXX"

**logo** `path`

Logo of the thesis.

Default: "img/logo\_ingegneria.svg"

## frontmatter

Frontmatter section. Similar to  $\text{\LaTeX}$ 's `\frontmatter`. It sets the page numbering to "i" and numbering: `none` for headings.

### Parameters

`frontmatter`(body) -> `content`

## acknowledgements

Acknowledgements section. It sets numbering: `none` for headings.

## Parameters

`acknowledgements`(body) -> `content`

## mainmatter

Mainmatter section. Similar to  $\text{\LaTeX}$ 's `\mainmatter`. It sets to page numbering to "1", heading numbering to "1.1" and resets the page counter.

## Parameters

`mainmatter`(body) -> `content`

## appendix

Appendix section. Similar to  $\text{\LaTeX}$ 's `\appendix`. It sets heading numbering to "A.1" and resets their counter.

## Parameters

`appendix`(body) -> `content`

## backmatter

Backmatter section. Similar to  $\text{\LaTeX}$ 's `\backmatter`. It sets heading numbering to `none`.

## Parameters

`backmatter`(body) -> `content`

## nomenclature

Displays a simple nomenclature with keys and values.

```
#nomenclature((
  "Polimi": "Politecnico di Milano",
  "CdL": "Corso di Laurea",
  "CCS": "Consigli di Corsi di Studio",
  "CFU": "Crediti Formativi
Universitari",
))
```

### Nomenclature

<i>POLIMI</i>	Politecnico di Milano
<i>CDL</i>	Corso di Laurea
<i>CCS</i>	Consigli di Corsi di Studio
<i>CFU</i>	Crediti Formativi Universitari

## Parameters

```
nomenclature(
  dict: dictionary,
  indented: bool
) -> content
```

**dict**    `dictionary`

Dictionary that hold keys and values.

**indented**    `bool`

Whether to indent or not the nomenclature.

Default: `true`

## theorems-init

Utility function to initialize the theorem environments<sup>1</sup>:

- theorem
- proposition
- lemma
- remark

### Parameters

`theorems-init`(body) -> `content`

## subfigure

Creates a new subfigure with the given arguments and an optional label. From hallon package.

### Parameters

```
subfigure(  
    ..args,  
    outlined: bool,  
    label: str,  
    body  
) -> content
```

**outlined**    `bool`

Whether to outline this subfigure or not.

Default: `false`

**label**    `str`

Unique label to reference this subfigure

Default: `none`

---

<sup>1</sup>Provided by great-theorems package.



## **bluepoli** color

Signature PoliMi colour (■), used in headings and labels.

## **toc**

Table of contents. It's custom built upon `outline()`.

## **list-of-figures** content

List of figures. Similar to L<sup>A</sup>T<sub>E</sub>X's `\listoffigures`.

## **list-of-tables** content

List of tables. Similar to L<sup>A</sup>T<sub>E</sub>X's `\listoftables`.

## **theorem** content

Theorem block.

## **proposition** content

Proposition block.

## **lemma** content

Lemma block.

## **remark** content

Remark block.

## **proof** content

Proof block.