



POLITECNICO
MILANO 1863

**SCUOLA DI INGEGNERIA INDUSTRIALE
E DELL'INFORMAZIONE**

polimi-thesis manual

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List of Figures

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List of Tables

1.1 Caption of the Table to appear in the List of Tables. 2

Nomenclature

POLIMI Politecnico di Milano

CDL Corso di Laurea

CCS Consigli di Corsi di Studio

CFU Crediti Formativi Universitari

1 | Chapter one

In this section there will be useful information about how to style chapters, sections and so on. Be sure to read the [Typst](#) guide for \LaTeX users [1].

1.1. Sections and subsection

In \LaTeX , there are specific function dedicated to chapters, sections and so on – in [Typst](#), there are just headings [2] (similar to Markdown) – so, for what concerns this package, the \LaTeX system maps to:

```
= Chapter           // Heading level 1
== Section          // Heading level 2
=== Subsection      // Heading level 3
==== Subsubsection // Heading level 4
```

If you need to turn off the numbering you will call the `heading` function:

```
#heading("Heading title", level: n, numbering: none)
```

1.2. Equations

In \LaTeX , there are many equation environments (`equation`, `equation*`, `aligned`) – in [Typst](#) there is just one, invoked with dollars [3]:

$$\left\{ \begin{array}{l} \Delta \cdot D = \rho, \\ \Delta \times E + \frac{\partial B}{\partial t} = 0, \\ \Delta \cdot B = 0, \\ \Delta \times H - \frac{\partial D}{\partial t} = J. \end{array} \right.$$

By default, the equations are **not** numbered – however if you need to:

$$\left\{ \begin{array}{l} \Delta \cdot \mathbf{D} = \rho, \\ \Delta \times \mathbf{E} + \frac{\partial \mathbf{B}}{\partial t} = 0, \\ \Delta \cdot \mathbf{B} = 0, \\ \Delta \times \mathbf{H} - \frac{\partial \mathbf{D}}{\partial t} = \mathbf{J}. \end{array} \right. \quad (1)$$

And to reference it just type Equation 1.

1.3. Figures, Tables and Algorithms

1.3.1. Figures

Via the `figure` environment [4], as you would do in \LaTeX :



Figure 1: Caption in the List of Figures.

However, since `Typst` does not *natively* support subfigures (see related issue), the packages `smartaref` [5] and `hallon` [6] have been integrated:



(a) Left Polimi logo.



(b) Right Polimi logo.

Figure 2: A figure composed of two sub figures, similar to `\subfloat{}`.

You can reference either the main Figure 2; or a single subfigure: Figure 2a, or Figure 2b.

1.3.2. Tables

	Column 1	Column 2	Column 3
row 1	1	2	3
row 2	α	β	γ
row 3	alpha	beta	gamma

Table 1: Caption of the Table to appear in the List of Tables.

As you can see, it could be useful to implement a default style for every table [7].

1.3.3. Algorithms

For algorithms, there are a lot of packages on [Typst](#) universe [8]. The following are my recommendations.

- `lovelace` [9]

Algorithm 1: My cool algorithm

1 Initial instructions

2 **for** *for – condition* **do**

3 | Some instructions

4 | **if** *if – condition* **then**

5 | Some other instructions

6 | **end if**

7 **end for**

8 **while** *while – condition* **do**

9 | Some further instructions

10 **end while**

11 Final instructions

See Algorithm 1.

- `algo` [10]

Name of Algorithm

```

1  Initial instructions
2  for for – condition do
3      Some instructions
4      if if – condition then
5          Some other instructions
6      end if
7  end for
8  while while – condition do
9      Some further instructions
10 end while
11 Final instructions

```

1.4. Theorems, propositions and lists

1.5. Theorems

Theorems have to be formatted as:

Theorem 1.1. *Write here your theorem.*

Proof. If useful you can report here the proof.

1.6. Propositions

Propositions have to be formatted as:

Proposition 1.1. *Write here your proposition.*

Powered by [11].

1.7. Lists

Normal list:

- First item
- Second item

Numbered list:

1. First item

2. Second item

1.8. Plagiarism

You have to be sure to respect the rules on Copyright and avoid an involuntary plagiarism. It is allowed to take other persons' ideas only if the author and his original work are clearly mentioned. As stated in the Code of Ethics and Conduct, Politecnico di Milano promotes the integrity of research, condemns manipulation and the infringement of intellectual property, and gives opportunity to all those who carry out research activities to have an adequate training on ethical conduct and integrity while doing research. To be sure to respect the copyright rules, read the guides on Copyright legislation and citation styles available at:

<https://www.biblio.polimi.it/en/tools/courses-and-tutorials>

You can also attend the courses which are periodically organized on “Bibliographic citations and bibliography management”.

1.9. Bibliography and citations

Your thesis must contain a suitable Bibliography which lists all the sources consulted on developing the work. The list of references is placed at the end of the manuscript after the chapter containing the conclusions. We suggest to use the BibTeX package [12] and save the bibliographic references in the file `Thesis_bibliography.bib`. This is indeed a database containing all the information about the references.

To cite in your manuscript, use the `cite` [13] command as follows:

Here is how you cite bibliography entries: [14] or chained [15], [16].

As it would have been in L^AT_EX, the bibliography [17] is automatically generated.

Bibliography

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