Graphical user interface, text

Description automatically generatedA picture containing device, fan, dark

Description automatically generated

|  |  |
| --- | --- |
| The article version of a very long and fancy title for my MSc Thesis in some Engineering  TESI MAGISTRALE IN XXXXXXXX ENGINEERING  **Surname, Name, Student ID** | |
| **Advisor:**  Name Surname  **Co-advisors:**  Name Surname  Name Surname  **Academic year:**  20XX-XX | **Abstract:** Here goes the Abstract in English of your thesis (in article format) followed by a list of keywords. The Abstract is a concise summary of the content of the thesis (single page of text) and a guide to the most important contributions included in your thesis. The Abstract is the very last thing you write. It should be a self-contained text and should be clear to someone who hasn’t (yet) read the whole manuscript. The Abstract should contain the answers to the main research questions that have been addressed in your thesis. It needs to summarize the motivations and the adopted approach as well as the findings of your work and their relevance and impact. The Abstract is the part appearing in the record of your thesis inside POLITesi, the Digital Archive of PhD and Master Theses (Laurea Magistrale) of Politecnico di Milano. The Abstract will be followed by a list of four to six keywords. Keywords are a tool to help indexers and search engines to find relevant documents. To be relevant and effective, keywords must be chosen carefully. They should represent the content of your work and be specific to your field or sub-field. Keywords may be a single word or two to four words. |
| **Key-words:** here, go, the, key-words, of, your work | |

# Introduction

This document is intended to be both an example of the Polimi WORD template for Master Theses, as well as a short introduction to its use. It is not intended to be a general introduction to WORD itself, and the reader is assumed to be familiar with the basics of creating and compiling WORD documents.

**Use the English version of Word and to see properly the format use the “Paragraph mark (New Shot, New Paragraph | Scriptwrecked)”.**

***For any doubt refer to:***[*https://support.microsoft.com/en-us/word*](https://support.microsoft.com/en-us/word)[1]

The cover page of the thesis must contain all the relevant information: title of the thesis, name of the Study Program and School, name of the author, student ID number, name of the supervisor, name(s) of the co-supervisor(s) (if any), academic year. Be sure to select a title that is meaningful. It should contain important keywords to be identified by indexer. Keep the title as concise as possible and comprehensible even to people who are not experts in your field. The title must be chosen at the end of your work so that it accurately captures the main subject of the manuscript.

Since a thesis might be a substantial document, it is convenient to break it into chapters. Be sure to be confident with *“Section breaks”* and *“Styles”*. Chapters titles are identified by the *“Heading 1”* and numbered by *“Multilevel list”*. Sub chapters are identified by *“Heading 2”* and so on.

Use the style *“Text”* for the body of the thesis. You can also create a personal style for your own porpoise, please use “Palatino Linotype” as Theme. The *“Headers”* colour is #728FA5.

# Equations

Maxwell’s equations read:

|  |  |  |
| --- | --- | --- |
|  |  | (1a) |
| (1b) |
| (1c) |
| (1d) |

The Equations (1) must be cited in the text, as well as the sinle equation: eq. (1a), eq. (1b), eq. (1c) and eq. (1d) need to be cited in the text. In this case it is better to make the cross reference on the last one

The following eqs. (2) to (5) show the same equation as before, with multiple global references rather than sub-references and without enclosing brace:

|  |  |  |
| --- | --- | --- |
|  |  | (2) |
|  | (3) |
|  | (4) |
|  | (5) |

Finally. eq. (6) is the same equations as before, but without multiple sub-references.

|  |  |  |
| --- | --- | --- |
|  |  | (6) |

Let’s go further.

# Images

Remember to include high quality images, insert the caption, and cite it in the text. Look to Figure 1, is it nice?



Figure 1: A nice picture.

You can also include multiple sub-figures, maybe better in a table with no borders.

|  |  |
| --- | --- |
| (a) One PoliMi logo. | (b) Another PoliMi logo. |

Figure 2: PoliMi logos.

The black logo (Figure 2a) and Figure 2b are nice.

Il Politecnico, originariamente denominato "Regio Istituto Tecnico Superiore", fu fondato il 29 novembre 1863 su impulso della Società di incoraggiamento di arti e mestieri. La sua prima sede fu presso il palazzo del Senato, un tempo collegio elvetico della città; alla sua guida fu nominato il matematico Francesco Brioschi. Inizialmente offriva solo un corso di ingegneria. Alla fondazione contribuirono le amministrazioni locali (Comune e Provincia di Milano), la camera di commercio, la Cassa di Risparmio delle Province Lombarde, associazioni culturali e imprenditori.

Milano, con il concorso della Cassa di Risparmio delle Provincie Lombarde, per decentrare e accorpare in un unico luogo gli istituti di istruzione superiore sparsi per la città. La scelta dell'ubicazione cadde sull'area periferica delle "Cascine doppie", divenuta in seguito Città Studi.

# Tables and Algorithms

In this section we define two numbered sections: section 4.1 and section 4.2 that show how to create tables and algorithms, respectively.

## Tables

Remember to make the caption of the table and to cite it in the text (Table 4.1).

Table 4.1: Caption to be displayed in List of Tables.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **column1** | **column2** | **column3** |
| **row1** | 1 | 2 | 3 |
| **row2** | α | β | γ |
| **row3** | alpha | beta | gamma |

Please, note that if you want to include huge tables in your thesis you may consider highlighting the columns or the rows to make them more readable. Here follow two examples reported respectively in Table 2 and in the last one (Table 3). If figures are too small for a double column put them in a single one.

Table 4.3: Highlighting the columns.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **column1** | **column2** | **column3** | **column4** | **column5** | **column6** |
| **row1** | 1 | 2 | 3 | 4 | 5 | 6 |
| **row2** | a | b | c | d | e | f |
| **row3** | α | β | γ | δ | φ | ω |
| **row4** | alpha | beta | gamma | delta | phi | omega |

Table 4.4: Highlighting the rows.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **column1** | **column2** | **column3** | **column4** | **column5** | **column6** |
| **row1** | 1 | 2 | 3 | 4 | 5 | 6 |
| **row2** | a | b | c | d | e | f |
| **row3** | α | β | γ | δ | φ | ω |
| **row4** | alpha | beta | gamma | delta | phi | omega |

## Algorithms

In this section it is shown how to write pseudo-algorithms.

|  |  |
| --- | --- |
| Algorithm 1 Name of the 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 |

# Some further useful things

How to write theorems:

**Theorem 5.1** *Write here your theorem.*

*Proof.* If useful you can report here the proof

How to write not-numbered lists:

* first item.
* second item.

How to write numbered lists:

1. first item;
2. second item.

# How to cite Bibliography

Your thesis must contain a suitable Bibliography which lists all the sources used or consulted on developing the work. The list of references is placed at the end of the manuscript after the chapter containing the conclusions.

To insert citation using Word: *References-Insert citation-Add a new source*; here you can choose the type of source: website [1], book [2], journal article [3], patent [4], etc.

Fill all the field with the required information (title, author, year, …) and use the style IEEE to have the number in square brackets.

At the end of the manuscript there is a section dedicated to the Bibliography *(References-Bibliography)*.

# Use of copyrighted material

Each student is responsible for obtaining copyright permissions, if necessary, to include published material in the thesis. This applies typically to third-party material published by someone else.

# Plagiarism

You must 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".

# Conclusions

A final section containing the main conclusions of your research/study and possible future developments of your work have to be inserted in the section “Conclusions”.

# Acknowledgements

Here you can acknowledge the ones who deserve it.

# References

|  |  |
| --- | --- |
| [1] | "https://support.microsoft.com/en-us/word," [Online]. |
| [2] | D. Alighieri, Comedia, Firenze: Goose Feather Press, 1321. |
| [3] | J. Watson, F. Cric, "Molecular structure of nucleic acids: a structure for deoxyrobose nucleic acid," *Nature,* vol. 171, p. 737–738, 1953. |
| [4] | Prometeus, "Fire". Olympus Patent 1, 300.000 BC. |