INAL (DEGREE /MASTER) THESIS (choose your level of studies)

**Bachelor’s Degree in ……/ Master in ....** (please, inform of your studies program)

**thesis title**



**Report and Annex**

**Author:** Student’s name and surname

**Supervisor:** Supervisor’s name

**Department** Department’s acronym

**Co-supervisor:** Co-supervisor’s name, if it exist

**Company tutor:** In case that supervisor is not profesor UPC

**Call:** 20##, Month

# Abstract

Please, write here the abstract of the Bachelor’s degree thesis / Master thesis. It should be approximately 200 words in length.

It should be as informative as the nature of the document allows, so that potential readers can decide whether it would be useful for them to read the whole document; it should define the objective, methods, results and conclusions presented in the body of the document, in this order or with the results and conclusions highlighted initially; it should be a complete text so that it is intelligible without the need to refer to the report; it should contain the basic information and character of the original document. As in all documents, care should be taken to ensure correctness of style, standardised nomenclature should be used, or unfamiliar terms, abbreviations and symbols should be defined when they first appear in the abstract.

*Last document modification: 2017, January 12th*

**BEAR IN MIND**

**This template aims to be an aid in the preparation of the Thesis documentation, as apart from incorporating a possible design model, it automates and facilitates a series of tasks such as the preparation of the table of contents, the structuring into chapters and sections, the bibliographical references, the references to equations, figures, tables, sections, bibliography, etc.**

**REMARKS**

**It should not limit the creativity of the student, being possible, and even advisable, the personalisation of the same. It has been elaborated in MS Word, its use is optional and requires a minimum knowledge of this software.**

**Its use does not have the technical support of the School and is therefore the sole responsibility of the student.**

# Resum

Please, write here the abstract of the Bachelor’s degree thesis / Master thesis in catalan.

# Resumen

Please, write here the abstract of the Bachelor’s degree thesis / Master thesis in spanish.

# Appreciations

Acknowledgements for help in carrying out the work and preparing the document may be included. It is not usual to acknowledge contributions such as a routine check, a little help or general recommendations..

Acknowledgement of other work used should be in the form of references. Acknowledgements referring to quoted text and the use of tables and illustrations may require acknowledgement of copyright.

**Glossary:**

*Optional section.* When the document contains signs, symbols, abbreviations, acronyms or terms that may not be easily and quickly understood by potential readers, they should be defined in one or more lists. The existence of such lists does not justify omitting an explanation of these elements when they first appear in the text.

**Index**

El siguiente índice se genera y actualiza automáticamente con la opción *"actualizar campos"* que aparece cuando se pulsa el botón derecho del ratón. Haced que el índice se inicie en una página impar.

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# Preface

*Optional section.* A preface can be considered as an introductory note to define the study that is the subject of the project, to highlight a particular aspect, to show its relationship to related work or to trace the historical circumstances that have motivated the project. Some sections might include:

## Background

## Motivation

## Requirements

# Introduction

The introduction should briefly state the scope and objectives of the work described in the paper, its relationship to other work, and the methodology employed. It should not repeat or paraphrase the abstract, nor give details of theory, experimentation, method or results, nor anticipate conclusions or recommendations. It may include information from the preface, if the preface is not presented separately. Some sections may include:

## Objetive

## Scope

# Text of chapter 4 [Ctrl + Shift + 1]

To convert a normal text into a chapter, press the combination [Ctrl + Shift + 1] or press the corresponding button on the Styles bar.

In the [EEBE](https://eebe.upc.edu/ca/estudis/normatives-academiques) Final thesis regulations you will find the requirements that the Final Degree Project must meet. Among others, the report must include a chapter dedicated to the environmental impact analysis and another with the budget and / or economic analysis or cost associated with the project.



Figure 3.1. Here should be the explanatory text of the figure (Source: Alba Àgueda )

When you want to enter an equation, it must be numbered. The following example contains the automated numbering:

|  |  |
| --- | --- |
|  | (Eq. 3.1) |

Examples of numbering of figures and equations. One option when new figures or equations are to be included is to copy the previous example and substitute the content, the numbering will be automatically updated afterwards.

The origin and author of all figures used must be respected and mentioned in the bibliographical references.

## Text of section 1, chapter 4 [Ctrl + Shift + 2]

To convert a normal text into a level 2 paragraph, press the combination [Ctrl + Shift + 2].

### Text of subsection 1, section 1, chapter 4 [Ctrl + Shift + 3]

To convert a normal text into a level 3 paragraph, press the combination [Ctrl+Shift+3].

If you want to make a reference to an existing equation or figure within the document and have it automatically updated if it changes position or numbering, you must use a "cross reference" found in the menu *"Insert"* submenu *"reference"*, and select the desired type (Eq., Fig., Table, marker, footnote, etc.) with reference to *"Label and number only"*. If considered convenient, the *"page number"* can also be referenced.

For example: ... idem Ec. 3.1

 ... idem Figure 3.1

If you want to make a citation of a bibliographic reference in the bibliography chapter, and for it to be automatically modified if you later add more references, we suggest using the system provided by Mendeley. (<https://www.mendeley.com>) through the pluggin installed in Word and also to the Web browser, following the indications given in the Bibliography section of this document.

# Environmental study [Ctrl + Shift + 1]

The last chapter before the conclusions should include the analysis of the environmental impact resulting from both normal operation and possible breakdowns, accidents, etc. that may arise from the Work presented.

# Conclusions

Conclusions should be a clear and orderly reflection of the deductions made as a result of the work described throughout the core of the paper. Quantitative data may be included, but should not give details of any arguments or results.

Recommendations are concise statements of any future action that appears to be necessary as a direct result of the findings or of any experience made in the course of the project work. They are not necessary unless fully justified by the work described.

This and the following chapters do not form part of the core of the document and do not need to be numbered as chapters.

# Economic analysis

This section should include the budget broken down and grouped by chapters, including the measurement of the means used and their economic valuation (engineering costs, labour, materials, etc.).

# Reference

The bibliography is the list of documents consulted during the preparation of the dissertation and should be included at the end of the body of the dissertation. Reference should be made to this list in the appropriate places in the text. ([in-text citacions](https://guies.bibliotecnica.upc.edu/com-citar/bibliografia#s-lg-box-wrapper-18609913))

It is highly recommended to prepare the bibliography as the TFG documentation is being prepared and the citations to these references are being made.

You will find all the information at: <https://guies.bibliotecnica.upc.edu/com-citar/>

The recommended citation style is Chicago Manual of Style or ISO 690 in Catalan or Spanish.

* How to cite a text:

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* How to make a bibliography with Mendeley

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# Annex A

If annexes are required, they will be placed from this section onwards.

Annexes can be included as appropriate:

* Specifications and/or User's Manual. which must include:
	+ The Particular Technical Specifications / User's Manual / Operations and Maintenance Manual.
	+ The General Economic Specifications (where applicable).
	+ Details of the regulations applicable to the work (where applicable).
	+ Manufacturing or execution programme and plan and/or assembly instructions.
* Sizing or checking calculations.
* Calculations justifying the choice of the solutions adopted.
* Material specifications supplied by manufacturers.
* Computer lists.
* Drawings
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