# DIPLOMA PROJECT

### Title of Thesis

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**DIPLOMA PROJECT THEME FOR:**

**Forename SURNAME**

**Theme title:**

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Title in English

**Paper preparation date:**

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# Academic Honesty Statement

I, [Forename SURNAME], hereby declare that the work with the title [Thesis Title], to be openly defended in front of the diploma theses examination commission at the Faculty of Engineering in Foreign Languages, National University of Science and Technology "Politehnica" of Bucharest, as partial requirement for obtaining the title of Engineer is the result of my own work, based on my work.

The thesis, simulations, experiments and measurements that are presented are made entirely by me under the guidance of the scientific adviser, without the implication of persons that are not cited by name and contribution in the Acknowledgements part.

The thesis has never been presented to a higher education institution or research board in the country or abroad.

All the information used, including the Internet, is obtained from sources that were cited and indicated in the notes and in the bibliography, according to ethical standards. I understand that plagiarism is an offense and is punishable under law.

The results from the simulations, experiments and measurements are genuine.
I understand that the falsification of data and results constitutes fraud and is punished according to regulations.

[Forename SURNAME]

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List of Abbreviations

|  |  |
| --- | --- |
| Abbreviation | Definition |
| HDD | Hard Disk |
| RAM | Random Access Memory |

1. Introduction

T

HIS document is a template for Microsoft Word versions 6.0 or later. All guidelines described here are mandatory, unless clearly specified otherwise. Please start by filling in the first two pages of this template with the thesis title, your full name, the academic rank and full name of your project coordinator and the year. On the third page add your full name, that of the project coordinator and the dean, the title of your thesis in both languages and the month/year you will be presenting the thesis. This page must be signed by the candidate, project coordinator and Faculty dean. On the fourth page add your full name and thesis title. This page must also be signed by the candidate.

This template contains markup styles that will help adjust the formatting for you. Highlight a section that you want to designate with a certain style, and then select the appropriate name on the style menu. The style will adjust your fonts and line spacing.

The paper must be structured as according to the following guidelines. Please note that unless otherwise specified, the chapters presented in italics are mandatory.

The *Contents* section must comprise the titles of all the chapters and subchapters together with the number of the page where each chapter starts, including Bibliography, Appendices, List of Figures, List of Tables and Glossary. For this it is recommended to use the automatic feature Table of Contents built in with Microsoft Word. Position the cursor at the desired location and press References | Table of Contents | Custom Table of Contents. Press Options and under Styles select only the following styles: *Thesis\_Chapter, Thesis\_SubChapter, Thesis\_SubSubChapter*. Another alternative is to overwrite the contents of this template and update the existing contents section by right clicking and selecting Update Field.

If applicable, the *List of Tables and Figures* section must comprise the titles of all the tables and figures contained within the thesis, together with the number of the page where they appear. Use the feature Table of Contents to create a table and select only the style *Thesis\_Figure*. Repeat the procedure for a second table underneath and select only *Thesis\_Table*. Alternatively, overwrite the contents of this template and update the existing section.

If applicable, the *List of Abbreviations* section must comprise the list of abbreviations contained within the thesis.

The *Introduction* chapter should place the thesis topic in a broad context and explain why it is important, motivating its choice; the structure of the thesis must be briefly presented, as well as a brief summary of each chapter.

You may choose the titles of all the next main chapters, subject to the following criteria. If applicable, the national and international level state-of-the-art of the developments in the field of the topic shall be presented, on the basis of a documentary study interpreted by the author. In this sense, the current state of the research field should be carefully reviewed and key publications cited. At least one of the chapters shall refer to the candidate’s contribution. The theoretical description of the topic shall be approached, as well as the description of the application.

The *Discussions* chapter must underline under what conditions, and with what accuracy the proposed methods, procedures, etc. operate; strong/weak points of the method, algorithms, etc., with reference to related results in the literature; the summary of the project, concrete results, personal contributions; what work the candidate intends to carry out further within the topic.

The *Conclusions* chapter should comprise the most important conclusions in the project and the personal opinion as to the results obtained in the research, regarding the researched topic.

The *Bibliography* chapter must contain all the cited references contained within the thesis. The bibliography comprises the list of all the sources of information used by the graduate in drafting the graduation project/dissertation. Alongside books and papers, online (Internet) sources may also be included. A Bibliography containing only internet sources is strongly discouraged.

If applicable, the *Appendix* sections shall contain information that is part of the work but is not crucial for the readability of the thesis. It is strongly recommended that these sections be kept much smaller compared to the number of pages in the rest of the thesis.

Final printing of the pages shall be done only on one side of the sheet of paper.

1. Formatting Guidelines

T

HE paper must be written in the study program language of the candidate. Page margins must be set to top 20 mm, bottom 20 mm, left 25 mm, right 20 mm. The titles of the sections Contents, List of Tables and Figures, List of Abbreviations, Discussions, Conclusions, Bibliography and Appendices are not numbered and must be written with font Times New Roman, 16pct, bold. The markup style for these sections is *Thesis\_Contents*. Each section should start on a new page. It is recommended to insert a Page Break at the end of each section, from the Insert menu.

Main chapter titles are numbered with single digits and must be written with font Times New Roman, 16pct, bold. The markup style for chapter titles is *Thesis\_Chapter*. Each chapter should start on a new page. It is recommended to insert a Page Break at the end of each chapter, from the Insert menu.

Body text paragraphs must be written with font Times New Roman, 12pct, with line spacing 1.15. The markup style for body text is *Thesis\_Body*. The first word within the text body of each chapter must be formatted with capital letters, while the first letter must be written with Times New Roman, 34pct. Copy-paste a first letter from this template to the desired location in order to more easily achieve this. There should be no tabs or spaces between the first letter and the subsequent letters.

Subchapter titles can be created as exemplified below. The maximum depth of subchapters is 3, meaning only second and third level subchapters are allowed.

* 1. Second level Chapter

This is a second level subchapter. Titles are numbered with double digits and must be written with font Times New Roman, 16pct, italic. The first digit should be the same as the numbering of the containing chapter, while the second digit starts from 1. The markup style for subchapter titles is *Thesis\_SubChapter*. Adjust the numbering by positioning the cursor on the title and selecting Set Numbering Value.

* + 1. Third level Chapter

This is a third level subchapter. Titles are numbered with triple digits and must be written with font Times New Roman, 16pct. The first two digits should be the same as the numbering of the containing subchapter, while the third digit starts from 1. The markup style for third level subchapter titles is *Thesis\_SubSubChapter*. Adjust the numbering by positioning the cursor on the title and selecting Set Numbering Value.

1. Equations, Tables and Figures

A

LL stand-alone equations in the main text must be numbered with double digits, enclosed in brackets and aligned to the utmost right side of the main body text. The first digit corresponds to the numbering of the main chapter it is contained in, while the second digit starts at 1. Equations should be cited in the main text as Eq. 3.1, etc. It is recommended to use an enclosing table with 2 columns in order to properly center the equation and align its numbering to the right. Click on the table containing the equation below and select Borders | All Borders in order to understand this better. Note that all final equation tables must not contain any visible borders. All equations must contain exactly font 12pct. For this purpose it is recommended to use the Equation Editor built into Microsoft Word. Equation numberings must be written with font Times New Roman, 12pct. Equations and equation numberings that span beyond the left and right margins of the main body text are strictly prohibited, as are equations displayed as images rather than using an equation editor. If the equation together with its numbering are larger than the width of the main body text, do not decrease the size of the equation font, instead adjust the equation so that it spans several lines.

|  |  |
| --- | --- |
| $$y\_{i}=\frac{b\_{i}+b\_{i+1}}{2}$$ | (3.1) |

Inline equations are also allowed, such as this example $f(x)=x^{2}+3$. In this case the equation must contain exactly font 12pct and must not be numbered.

All figures must be numbered with double digits, the first digit corresponding to the numbering of the main chapter it is contained in, while the second digit starts at 1. Every figure must have a caption that starts with Figure <numbering.> written with font Times New Roman, 11pct, bold, followed by the title with font Times New Roman, 11pct. If applicable, the data source should be mentioned on a new line after the figure caption, between square brackets and following the same style font. The entire figure caption must be centered and located below the figure. Each figure must be centered horizontally relative to the margins of the main body text. It is possible to have one or more images in each figure. If there are more than one image, these should be labeled with (a), (b), etc. centered underneath each image and the figure caption should describe each image accordingly. Figures should be cited in the main text as Fig. 1.1, etc. Examples are given in Fig. 3.1 for a figure with a single image, respectively in Fig. 3.2 for two images and a reference to the data source. Both these figures are contained within a text box without visible borders, while in the second figure the images are in turn contained within a table with two columns and no borders. To simplify construction of your figures, it is recommended to use this type of formatting. Figures can be placed anywhere in the main body of the text, provided they do not overlap with other text or figures. The images contained within the figures may contain text – in fact, when presenting a graph the captions for the x and y axis are mandatory. The size of the text within the figures must be within reasonable limits and clearly readable. Figures that span beyond the left and right margins of the main body text are strictly prohibited.

All tables must be numbered with double digits, the first digit corresponding to the numbering of the main chapter it is contained in, while the second digit starts at 1. Every table must have a caption that starts with Table <numbering.> written with font Times New Roman, 11pct, bold, followed by the title with font Times New Roman, 11pct. The text content of the table must use font Times New Roman, 11pct. The table caption must be centered and located above the table. If applicable, the data source should be mentioned below the table, between square brackets and following the same style font. Each table must be centered horizontally relative to the margins of the main body text. External upper and lower borders should be double line; the internal lower border of the header should be single line; external left/right borders should not be visible. Internal vertical single line borders may be inserted but are discouraged. Tables should be cited in the main text as Table 1.1, etc. Examples of tables are depicted in Table 3.1 and Table 3.2, where the tables and captions are contained within a text box with no visible borders. Tables that span beyond the left and right margins of the main body text are strictly prohibited.

|  |  |
| --- | --- |
| C:\Users\martin\Downloads\testFigure.tif(a) | C:\Users\martin\Downloads\testFigure.tif(b) |

**Figure 3.2.** This is a double image. If there are multiple figures, they should be listed as: (a) Description of what is contained in the first figure; (b) Description of what is contained in the second figure.

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**Figure 3.1.** This is a single image.

Table 3.2. This is a table with internal horizontal borders

|  |  |  |
| --- | --- | --- |
| Metric | Value1 | Value2 |
| Temperature | -10 | 30 |
| Rate | 2.5 | 3.6 |
| Energy | 3 | 5 |

Table 3.1. This is a table with double external horizontal borders and a header.

|  |  |  |
| --- | --- | --- |
| Metric | Value1 | Value2 |
| Temperature | -10 | 30 |
| Rate | 2.5 | 3.6 |
| Energy | 3 | 5 |

[Source: Reproduced from http://website.com]

1. Formatting the Bibliography

R

EFERENCES must be numbered in order of appearance in the text (including citations in table and figure captions) and listed individually within the Bibliography section. Use IEEE citation style. In the main text, reference numbers should be placed in square brackets [ ], such as [1], [1–3] or [1,3]. It is recommended to prepare the references either with the bibliography tool built into Microsoft Word (go to References | Managed Sources) or using a software package such as Mendeley or Zotero.

The following formatting should be applied when referencing a journal article [1]:

A. B. Author 1, C. D. Author 2 and E. F. Author 3, “Name of Paper”, *Abbreviated Journal Name*, Volume, Issue, pp. page range, Month, Year

The following formatting should be applied when referencing a book [2]:

A. B. Author 1, C. D. Author 2 and E. F. Author 3, *Book Title*, Edition; Publisher: Publisher Location, Country, Year, pp. page range.

The following formatting should be applied when referencing a URL [3]:

Title of Site. Available online: URL (accessed on Day Month Year).

1. Discussions

T

HIS section should contain a discussion of the work.

1. Conclusions

A

DD your conclusions here.

Bibliography

1. W. P. Risk, G. S. Kino, and H. J. Shaw, “Fiber-optic frequency shifter using a surface acoustic wave incident at an oblique angle,” *Opt. Lett*., vol. 11, no. 2, pp. 115–117, Feb. 1986.
2. W.-K. Chen, *Linear Networks and Systems*. Belmont, CA, USA: Wadsworth, 1993, pp. 123–135.
3. The Name of the Website. Available online: https//www.website.com/path/ (accessed on 10 Jan 2024).

Appendix 1

This is a first appendix. Subsequent appendices should be numbered as Appendix 2 etc.