

Master's Thesis
3cm spacing
Title of Thesis
spacing can be adjusted
Gildong Hong
0.5cm spacing
Department of OOO
1.5cm spacing
Graduate School
0.5cm spacing
Korea University
1cm spacing
February 2023

Doctoral Dissertation
3cm spacing
Title of Dissertation
spacing can be adjusted
Gildong Hong
0.5cm spacing
Department of OOO
1.5cm spacing
Graduate School
0.5cm spacing
Korea University
1cm spacing
February 2023



# Title of Thesis

by  
Gildong Hong

student signature

---

under the supervision of Professor Chulsu Kim

A thesis submitted in partial fulfillment of  
the requirements for the degree of  
Master of Arts (Science, etc.) (in Major)

Department of OOO
Graduate School
Korea University
October 2022

Title of Dissertation

by  
Gildong Hong

student signature

---

under the supervision of Professor Chulsu Kim

A dissertation submitted in partial fulfillment of  
the requirements for the degree of  
Doctor of Philosophy (in Major)

Department of OOO
Graduate School
Korea University
October 2022

The thesis of Gildong Hong has been approved  
by the thesis committee in partial fulfillment  
of the requirements for the degree of  
Master of Arts (Science) (in Major)

December 2022

student signature

---

Committee Chair: Name

student signature

---

Committee Member: Name

student signature

---

Committee Member: Name

The dissertation of Gildong Hong has been approved  
by the dissertation committee in partial fulfillment  
of the requirements for the degree of  
Master of Philosophy (in Major)

December 2022

student signature

---

Committee Chair: Name

student signature

---

Committee Member: Name

student signature

---

Committee Member: Name

student signature

---

Committee Member: Name

student signature

---

Committee Member: Name

student signature

---

Committee Member: Name

# Title

by Gildong Hong

Department of OOOO

under the supervision of Professor Chulsu Kim

## ABSTRACT

The text of the abstract begins here.

The above title line (ABSTRACT) is styled using `\large` and `\textbf`.

Paragraph text is styled using default style.

Pages should be assigned from the abstract using small Roman numerals (i, ii, iii, iv, v, etc.)

**Keywords** : Keyword, Keyword, Keyword, Keyword, Keyword, Keyword



## 국문 제목

by 홍길동

OO 학과

지도교수 : 김철수

## 국문 초록

The Korean abstract should follow the English abstract. 영어 논문의 경우에도 한글 초록이 작성되어야 합니다.

The abstract should be written in both Korean and English. In addition, a thesis/dissertation written in a foreign language other than English must include the abstract in the relevant foreign language, English and Korean.

**중심어** : 중심어, 중심어, 중심어, 중심어, 중심어, 중심어





## Preface

The text of the preface begins here.

## Acknowledgements

The text of the acknowledgements begins here.

If necessary, acknowledgments can be included. If the Acknowledgments are mentioned in the preface, this section may be omitted.

# Contents

<b>1</b>	<b>Introduction</b>	<b>19</b>
1.1	Second Level Heading . . . . .	19
1.1.1	Third Level Heading . . . . .	19
1.2	Referencing headings . . . . .	20
<b>2</b>	<b>Organizing and Formatting</b>	<b>21</b>
2.1	Paper Size and Margins . . . . .	21
2.2	Fonts and Size . . . . .	21
2.3	Figures and Equations . . . . .	22
<b>3</b>	<b>Discussion</b>	<b>27</b>
<b>4</b>	<b>Conclusion</b>	<b>28</b>
	<b>Bibliography</b>	<b>28</b>

# List of Tables

2.1	Organizing and formatting thesis/dissertation . . . . .	25
2.2	Requirement for font size and the style used in this manuscript . .	26

# List of Figures

2.1 Korea University Global Symbol . . . . . 22



## Nomenclature or list of symbols

$M$	original mass matrix
$K$	original stiffness matrix

## Subscripts

$b$	interface boundary
$d$	dominant

## Abbreviation

$CMS$	Component Mode Synthesis
-------	--------------------------



# Chapter 1

## Introduction

The following formatting information is intended to illustrate several acceptable ways of preparing a thesis or dissertation for your convenience.

The first level heading is styled using `chapter`. Chapter 1 is styled with `\chapter{Introduction}`. You can put `\label{chap:intro}` to refer to this chapter.

The first paragraph of every chapter, section or subsection is, by default, set to be nonindented.

### 1.1 Second Level Heading

The second level subheading is styled using `section`. Section 1.1 is styled with `\section{Second Level Heading}`. You can put `\label{sec:section}` to refer to this section.

#### 1.1.1 Third Level Heading

The above third level subheading is styled using `subsection`. Subsection 1.1.1 is styled with `\subsection{Third Level Heading}`. You can put `\label{subs:subsection}` to refer to this subsection.

It will appear in the Table of Contents, automatically.

## 1.2 Referencing headings

Suppose that you want to refer to the first section. The first section (of the first chapter) was labeled with `\label{sec:section}`. You can call the section by typing `\ref{sec:section}` : Subsection 1.1

## Chapter 2

# Organizing and Formatting

### 2.1 Paper Size and Margins

The paper size of the thesis/dissertation shall be B5. For the first three preliminary pages (including the cover page, title page and signature page) before the abstract, all margins (top, bottom, left and right) shall be at least 3 cm. From the abstract on, the top and bottom margins shall be at least 3cm and the left and right margins shall be at least 2 cm (Table 2.1).

### 2.2 Fonts and Size

The default font size is set to 11pt. In  $\text{\LaTeX}$  you can use commands like `\normalsize`, `\large`, `\Large`, `\LARGE`, `\huge`, and so on, to specify the size of the font. We relate the above commands to 11pt, 14pt, 16pt, 18pt and 21pt, respectively, of the MS word templete. Thus, there are slight differences of font size in MS word templete and in  $\text{\LaTeX}$  templete. The below (Table 2.2) is the comparison table for the font size.<sup>1</sup>

Here is how we put tables and footnote in  $\text{\LaTeX}$ . To typeset a table, use the environment `tabular` and specify the columns. The above table has three center-aligned columns ;

```
\begin{tabular}{ccc} ... \end{tabular}
```

---

<sup>1</sup><https://tug.org/texinfohtml/latex2e.html#Font-sizes>

You can also use advanced version of `tabular`, which are `taubularx`, `tabulary`, `tabu`, to manipulate the typeset of tables.

It is desirable to put the `tabular` environment inside the `table` environment. You can add caption by `\caption{...}`. The labeling `\label{...}` for future reference should be followed just after the caption. All the tables in the `table` environment will be included in the ‘List of Tables’.

## 2.3 Figures and Equations

To include the figure file in the document, you can use `includegraphics` command, which require `graphicx` package.

```
\includegraphics[width=.2\textwidth]{kumark.png}
```

You can specify the width or the height of the figure inside the square brackets and the file name (with or without the extension) inside the braces.

It is desirable to put the `includegraphics` command inside the `figure` environment. Again, the labeling need to be followed just after the caption. All the tables in the `table` environment will be included in the ‘List of Tables’.



Figure 2.1: Korea University Global Symbol

You can type an equation with inline math mode like  $E = mc^2$ . Or you can type

$$E = mc^2$$

to express the equation in display math mode. The above equation is an unnum-

bered. To number the equation automatically, you can use `equation` environment;

$$E = mc^2 \tag{2.1}$$

The number or the tag of the above equation reads ‘the first equation of the section 2.3’. If you add one more equation, you can get the second equation of the section 2.3.

$$e^{i\theta} = \cos \theta + i \sin \theta. \tag{2.2}$$

You can also specify the tagging explicitly by

$$E = mc^2 \tag{*}$$

To express a list of equations, you can use the `gather` environment, which just enumerates equations vertically. For example, suppose that you want to express a system of linear equations  $x + y + z = 3$ ,  $x - y + 2z = 1$ ,  $x + 3z = 2$ .

$$x + y + z = 3 \tag{2.3}$$

$$x - y + 2z = 1 \tag{2.4}$$

$$x + 3z = 2, \tag{2.5}$$

If you want to unnumber the equations, use `gather*` environment;

$$x + y + z = 3$$

$$x - y + 2z = 1$$

$$x + 3z = 2,$$

Note that the above system is not well aligned. To align the equations horizontally, with respect to the equality sign, you can use `align` (or `align*`) environment

$$x + y + z = 3$$

$$x - y + 2z = 1$$

$$x + 3z = 2$$

`align` environment (instead of `align*` environment) tags every equation of the system

$$x + y + z = 3 \tag{2.6}$$

$$x - y + 2z = 1 \tag{2.7}$$

$$x + 3z = 2 \tag{2.8}$$

If you want one tagging for the system, you can use the `aligned` environment and the `equation` environment, simultaneously

$$\begin{aligned} x + y + z &= 3 \\ x - y + 2z &= 1 \\ x + 3z &= 2 \end{aligned} \tag{2.9}$$

Finally, you can label and refer an equation, by `\label{...}` and `\eqref{...}`. For example, you can say that ‘The root of (2.9) is  $x = 2, y = 1, z = 0$ ’.

The environments `align`, `gather` and others, are the environments provided by the `amsmath` package. For more information to typeset the equation neatly, refer to <http://www.ams.org/arc/tex/amsmath/amslldoc.pdf>.



Order	Note	Margin	Pagination
Cover page			
Blank page		top, bottom, left & right at least 3 cm	None
Title page			
Signature page			
Abstract	both English & Korean		
Dedication page	optional		
Preface	if necessary		
Acknowledgements	optional		
Table of contents			
List of tables	if there are tables or figures in the main body	top & bottom at least 3cm	i, ii, iii, iv, ...
List of figures			
Nomenclature		optiona	
Blank page			None
Main body			
Reference			1, 2, 3, 4, ...
Appendices	optional		
index	optional		

Table 2.1: Organizing and formatting thesis/dissertation

	Size Requirements	L <sup>A</sup> T <sub>E</sub> X Style
Thesis title	21	<code>\huge</code>
The school name (Graduate School, Korea University)	18	<code>\LARGE</code>
All other parts are 16 points (department, name, advisor, master's thesis, ..., submitted, ... completed, etc.)	16	<code>\Large</code>
Year, month and day	14	<code>\large</code>
Main Text	10–12	<code>\normalsize</code>
Heading	None	
Figure caption	None	
Table caption	None	

Table 2.2: Requirement for font size and the style used in this manuscript

## Chapter 3

# Discussion

Discussion starts here.

## Chapter 4

# Conclusion

Conclusion starts here.

# Reference(or Bibliography)

- [1] Hochreiter, Sepp, and Jürgen Schmidhuber. “Long short-term memory.”  
Neural computation 9.8 (1997): 1735-1780.

Appendices or supplementary materials

## A. Appendix Title

## Index

Index starts here if required.