

TITLE OF THE THESIS

by

Your Full Name in 14 Points

Your first degree, in Area, Institution, Year

Your second degree, in Area, Institution, Year

(everything is in 12 points unless otherwise stated)

Submitted to the Institute of Biomedical Engineering

in partial fulfillment of the requirements

for the degree of

Master of Science

in

Biomedical Engineering

Boğaziçi University

2016

TITLE OF THE THESIS

APPROVED BY:

Assist. Prof. Dr. Burak Güçlü
(Thesis Advisor)

Prof. Dr. Reşit Canbeyli

Prof. Dr. Ahmet Ademoğlu

DATE OF APPROVAL: 23 June 2008

ACKNOWLEDGMENTS

Type your acknowledgments here.

ACADEMIC ETHICS AND INTEGRITY STATEMENT

I, Adil Deniz Duru, hereby certify that I am aware of the Academic Ethics and Integrity Policy issued by the Council of Higher Education (YÖK) and I fully acknowledge all the consequences due to its violation by plagiarism or any other way.

Name :

Signature:

Date:

ABSTRACT

TITLE OF THE THESIS

Type your abstract here. Abstract should not be longer than one page and should not contain any references.

Keywords: Enter, Several, Related, Keywords, Here.

ÖZET

TEZİN TÜRKÇE BAŞLIĞI

Türkçe tez özetini buraya yazınız. Özet bir sayfadan uzun olmamalı ve referans içermemelidir.

Anahtar Sözcükler: Çeşitli, Anahtar, Sözcükleri, Buraya, Yazınız.

TABLE OF CONTENTS

ACKNOWLEDGMENTS	iii
ACADEMIC ETHICS AND INTEGRITY STATEMENT	iv
ABSTRACT	v
ÖZET	vi
LIST OF FIGURES	viii
LIST OF TABLES	ix
LIST OF SYMBOLS	x
LIST OF ABBREVIATIONS	xi
1. L ^A T _E X FORMAT FOR THESIS WRITERS	1
1.1 How to insert Figures and Tables in the text	2
1.2 How to insert Equations in the text	3
1.3 List of publications produced from the thesis	4
APPENDIX A. TITLE OF THE FIRST APPENDIX	5
A.1 Appendix Section Heading	5
A.1.1 Appendix Subsection Heading	5
A.1.1.1 Appendix subsection heading	5
REFERENCES	6

LIST OF FIGURES

Figure 1.1	Figure Captions will be in 10 points. If the figure caption is longer than a single line, it will wrap to the next lines.	2
------------	---	---

LIST OF TABLES

Table 1.1	Table captions and the characters in table entries will be in 10 points. If the caption is longer than a single line, it will wrap to the next lines.	3
-----------	---	---

LIST OF SYMBOLS

a_{ij}	Description of a_{ij}
α	Description of α

LIST OF ABBREVIATIONS

AEP	Auditory Evoked Potential
VEP	Visual Evoked Potential

1. L^AT_EX FORMAT FOR THESIS WRITERS

In order to allow the students to write their theses in the official format approved by the Biomedical Engineering Institute, a text style file named **bmetez.sty**, a bibliography style file named **bmetez.bst**, a bibliography source file **bmetez.bib** in BibT_EX format, and an instructions manual file named **bmetez.tex** (L^AT_EX source file of this document) have been provided for the users of L^AT_EX typesetting program. These files can be downloaded from the web page of the Biomedical Engineering Institute at <http://www.bme.boun.edu.tr/>. A good source book for learning more about L^AT_EX is Leslie Lamport's book [1]. There is Comprehensive T_EXArchive Network (CTAN) at the web address <http://www.dante.de> which is an enormous source of software and support for L^AT_EX. The most easiest way of writing and formatting your thesis is to use the L^AT_EX typesetting program. In that case, all you have to do is to follow the guidelines given below:

1. install a L^AT_EX software if it is not available on your computer. For the MS Windows users the following site has a convenient freeware package called MikTeX which can be downloaded from <http://www.miktex.org>.

There is also a user-friendly L^AT_EX editor called TeXed33 which can be downloaded from

<ftp://ftp.dante.de/tex-archive/systems/win32/texed/>. For those who want to have a more versatile L^AT_EX editor including a spellchecker, there are other shareware utilities called WinEdt (<http://www.winedt.com>) or

TeXnicCenter (<http://www.toolscenter.org/>) which can also be easily downloaded.

2. after installing your L^AT_EX system and its editor, download the files, **bmetez.sty**, **bmetez.bst**, **bmetez.bib** and **bmetez.tex** from <http://www.bme.boun.edu.tr/>.

3. copy the file named **bmetez.tex** to a file in which you will edit your thesis. This is the source file of this manual that you are currently reading as well as a sample file that you will indent your thesis in.
4. when you typeset the file with \LaTeX , the style file will automatically format your thesis to the appropriate form.

The figures which are in the encapsulated postscript (.ps or .eps extension) or JPEG formats (.jpg or .jpeg extension) can be inserted in the text. For pictures to be inserted in the text in postscript (.ps) or encapsulated postscript (.eps) format, download Ghostscripts <http://www.ghostscript.com/> and run the latex->ps->pdf option in \LaTeX editor environment. Each figure, table and equation is given a separate label which will be used for referring in the text.

The figures will be referred to as Figure 1.1. The tables will be referred to as Table 1.1.

1.1 How to insert Figures and Tables in the text

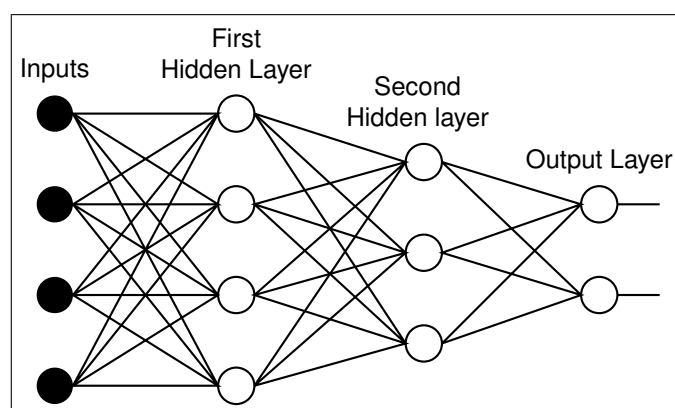


Figure 1.1 Figure Captions will be in 10 points. If the figure caption is longer than a single line, it will wrap to the next lines.

Table 1.1

Table captions and the characters in table entries will be in 10 points. If the caption is longer than a single line, it will wrap to the next lines.

	Mean	Minimum	Maximum	Std.Dev
Stimulus peak in dB SPL Left ear	80.79	72	86	%2
Stimulus peak in dB SPL right ear	81.02	78	90	%2.2
TEOAE SNR in dB Left ear	11.35	-1.4	25.0	%49.4
TEOAE SNR in dB right ear	12.09	-1.4	26.0	%46.8

1.2 How to insert Equations in the text

The equations will be referred to as Eq. 1.1.

$$x = D \cdot \sin \phi \cdot \cos \theta \quad (1.1)$$

where $y = D \cdot \sin \phi \cdot \sin \theta$, $z = D \cdot \cos \phi$ and $D = \sqrt{x^2 + y^2 + z^2}$, $\phi = \arctan(y/x)$, $\theta = \arccos(z/D)$.

The easiest way of editing the references is to use the Bib \TeX package. The referred items are edited in a file called bmetez.bib. The **BIBTEX-entry** menu item of the **Special Menu** in the TeXed33 editor may be used for this purpose. For editing the Bib \TeX entry for website addresses, the reference is given as a book, as a journal article, as a conference proceeding etc. with an additional note of **Available: site/path/file** given in the **NOTE** field of each bibliographic item. Each reference must be given a label to be used for citing in the text. The formatted references as books [1], the journal articles [2], the technical reports [3], the book chapters [4], the theses [5, 6], the edited books [7, 8], and the website addresses [9] are exemplified in the References. Multiple references in series can be cited as [5]-[7].

1.3 List of publications produced from the thesis

1. Investigaton of the neuronal efficacy and EEG source power under steady-state visual stimulation, A. D. Duru, S. B. Erdogan, I. Kasikci, A. Bayram, A. Ademoglu, T. Demiralp, " *Engineering in Medicine and Biology Society, EMBC, 2011 Annual International Conference of the IEEE*, Vol. 4, pp. 6576-6579, Aug. 30–Sept. 3, 2011.
2. Source Localization of Subtopographic Brain Maps for Event Related Potentials (ERP) A. D. Duru, A. Bayram, T. Demiralp, A. Ademoglu, *Encyclopedia of Healthcare Informations Systems*, Vol. 3, pp: 1247-1252, 2010.
3. Analysis of brain electrical topography by spatio-temporal wavelet decomposition A. D. Duru, A. Ademoglu, T. Demiralp, *Mathematical and Computer Modelling*, Vol. 49, pp. 2224-2235, 2009.

APPENDIX A. TITLE OF THE FIRST APPENDIX

The appendices start here.

A.1 Appendix Section Heading

The Appendix section starts here.

A.1.1 Appendix Subsection Heading

The Appendix subsection starts here.

A.1.1.1 Appendix subsubsection heading. The Appendix subsubsection starts here.

The line spacing specifications between the paragraphs and headings for the appendix sections will be the same as those of the regular text sections.

REFERENCES

1. Lamport, L., *A Document Preparation System L^AT_EX*, New York: Addison–Wesley, 2nd ed., 1994.
2. Cao, L., Y. Hong, H. Fang, and G. He, “Predicting chaotic time series with wavelet networks,” *Physica D*, Vol. 85, pp. 225–238, Jan 1995.
3. Farmer, J. D., and J. J. Sidorowich, “Exploiting chaos to predict the future and reduce noise,” preprint, Los Alamos, LA-UR-88-901, 1988.
4. Principe, J. C., and P. Lo, “Towards the determination of the largest Lyapunov exponent of EEG segments,” in *Measuring Chaos in the Human Brain*, pp. 156–166, Singapore: World Scientific, 1991.
5. Duru, A. D., “Source localization of electrical dipoles in electroencephalogram (EEG),” Master’s thesis, Bogazici University, Istanbul, Turkey, 2004.
6. Arslan, R. B., *Novel methods to improve acquisition of transient evoked otoacoustic emissions for hearing screening*. PhD thesis, Bogazici University, Istanbul, Turkey, 2000.
7. Takens, F., *Detecting strange attractors in turbulence*, Vol. 898 of *Lecture Notes in Mathematics*, pp. 366–381. Berlin: Springer, 1981.
8. Aldroubi, A., and M. Unser, eds., *Wavelets in Medicine and Biology*, Boca Raton: CRC, 1996.
9. Jones, J., *Networks*, 2nd ed., Boca Raton: CRC, 1991. Available: <http://www.atm.com>.