



**REPUBLIC OF TÜRKİYE
AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED
SCIENCES**

**INSTRUCTIONS
FOR PREPARATION OF
SEMINARS, THESIS AND TERM PROJECTS**

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PREFACE

Aydın Adnan Menderes University Graduate School of Natural and Applied Sciences Thesis Writing Guide has been prepared to guide our students in the thesis writing process and encourage effective thesis writing per the standards.

Using clear and informative language, this guide encourages students to build their research on a solid foundation by focusing on the stages of thesis preparation, literature review, methodology, analysis, and discussion of findings. It provides our students with information on academic writing language, formatting, bibliography organization and citation. It also emphasizes the basic principles that respect academic ethics and support the process of thinking and research.

We hope this guide will help the students of the Graduate School of Natural and Applied Sciences students take more confident and conscious steps in the thesis writing process. We would like to thank everyone who contributed to the preparation of this thesis writing guide, which has been updated in our institute in line with the opinions received from the departments.

Prof. Dr. Mustafa SÜRMEŒ

Aydın Adnan Menderes University

Graduate School of Natural and Applied Sciences

1. INTRODUCTION

The following guidelines have been created to ensure consistency in the writing of graduate theses across different departments at Aydın Adnan Menderes University Graduate School of Natural and Applied Sciences. A graduate thesis is a document that reflects the author's academic competence and the value of their work. The thesis serves as a means of communication and evaluation between the author and reader, and is expected to adhere to specific academic standards. The scientific value of a thesis is not only dependent on the quality of the information presented, but also on its format and appearance. These standards not only help in achieving a consistent format, but also aid in the preparation of the thesis. The seminar and thesis proposal should be prepared according to the same academic standards as the thesis. This guide includes the essential features related to the format and appearance that must be included in the thesis proposal and thesis.

For this reason, it is compulsory to follow the rules specified in this guide while preparing seminar, thesis proposal, thesis and term project.

2. FORMAT AND APPEARANCE

2.1. Paper

The paper on which the thesis will be written should be A4 standard, 21 cm x 29.7 cm, 80-110 gram first quality white bond paper. When printing on paper, make sure that the information printed on one side is not visible from the other side.

2.2. Writing Environment and Tools

Theses should be written on a computer with Windows, MacOS, Linux, Android, Chrome OS, etc. operating system, using a word processing program (such as Microsoft Office Word, Apple Pages, OpenOffice, LibreOffice, LaTeX) as specified in the guide.

One side of the paper should be used from the beginning of the thesis to the INTRODUCTION section and REFERENCES section, and both sides of the paper should be used from the INTRODUCTION section to the end of the REFERENCES section.

Chapters, including the INTRODUCTION section, should always be placed on the front page (odd-numbered pages).

2.3. Nature of Writings

The text of the thesis should be written in Times New Roman font with a size of 12pt. It should be used different formats for various elements in the preliminary and Cover page of the thesis, Acceptance and Approval Page, Acknowledgments, Table of Contents, Index of Symbols, Index of Abbreviations, List of Figures, List of Tables, Abstract, Chapter and Section titles, Tables, Figures, footnotes, Appendices and Equations. For a detailed understanding of the appropriate formats for each element, please refer to the relevant sections.

To ensure that footnotes, tables, and figures can fit on the page, it is acceptable to use a 10-point font, provided that it is the same typeface. Additionally, footnotes should appear on the same page as the sentence containing the footnote number.

Bold, italic and underlining in the main text should not be applied indiscriminately. These styles should be used judiciously based on the field of science.

All text should be in black.

A blank space must be left after punctuation marks (such as period, comma, semicolon, colon, ellipsis, exclamation mark, question mark, apostrophe, slash, angle separation).

Subscripts and superscripts in formulas and units of measurement should conform to general spelling conventions (e.g. H₂O, cm³). When mathematical notation is used, especially symbols representing certain quantities, constants and variables, Greek alphabet characters such as α , β , γ , δ and ε should be italicized. Vectors and matrices should be in boldface.

Formulas and equations should be written with a 1cm margin from the left side of the page, without any first line indent.

There should always be a single line space between equations and text. Additionally, there should also be a single line space between consecutive equations. If an equation or formula is a part of a sentence and the sentence continues after the equation, then there is no need to leave a line space before or after the equation.

If formulas and equations are mentioned in the text, the number of the relevant formula/equation must be given. The numbering of formulas and equations should be done in such a way as to indicate the main chapter number and the order in which they appear in the chapter. The formula/equation number should be shown in parentheses justified to the right of the page.

Example:

$$\alpha^2 + \beta^2 = \gamma^2 \tag{3.1}$$

For writing formulas, various software including Microsoft Equation Editor, MathType, and LaTeX can be used. Formula and equations cannot be attached as images or screenshots.

When writing decimal numbers, the appropriate symbol to use as the decimal separator depends on the language being used. In Turkish, commas should be used as the decimal symbol, while in English, periods should be used. For instance, if you want to write the number two and a quarter, in Turkish you should write it as 2,25, while in English it should be written as 2.25.

2.4. Line Spacing

Paragraph setting in thesis text according to Microsoft Office Word:

General: Alignment (Justify), Outline Level (Body Text),

Indentation: Right-Left (0 cm), Custom (First line), Value (1 cm),

Spacing: Before (0 pt) and After (6 pt), Line spacing (1.5 lines).

First-order section headings, including Acceptance and Approval, Acknowledgment, Table of Contents, Index of Symbols, Index of Abbreviations, List of Figures, List of Pictures, List of Tables, Abstract, Introduction, Literature Review, main section headings, References, Appendices, Statement of Scientific Ethics, and Curriculum Vitae, should begin on the right-hand side of an odd-numbered page. Chapter headings should be aligned to the center of the line. The main chapter headings following the Literature Review chapter should be Materials and Methods, Results, Discussion, Conclusion. In accordance with the flow and structuring of the thesis, one of the titles Method or Theory can be substituted for the title Material and Method. Again, in line with the content of the thesis, the "Findings" and "Discussion" sections can be grouped under the title "Findings and Discussion".

The formatting of the document should include 2 line spacing after the first-degree chapter headings. Additionally, there should be 1 line spacing before and after the second-degree section headings and third-degree sub-section headings. If there is a second or third degree heading on the last line of a page, it should be moved to the beginning of the following page.

No spacing should be left between the figure/table and the titles of them. No spacing should be left between the figure or table and its title. When writing figures and tables, one line of space should be left between the text and these items both before and after. There should be 1 line space between equations/formulas and the text. There should also be 1 line space between consecutive equations/formulas. If an equation or formula is a continuation of a sentence, and the sentence continues after the equation, do not add a line space before and after the equation.

Paragraphs in quotations, footnotes and references should be written with 1 line spacing.

2.5. Margins and Page Layout

Each page of the document must have a margin of 3.0 cm on the left and right sides, and 3.0 cm on the top edge, and 2.0 cm on the bottom edge. It is important to ensure all

articles, figures, pictures, and charts are contained within these limits. Likewise, footnotes should also be used within these limits. Avoid dividing words at the end of lines, and ensure that there are at least two lines of the paragraph at the end of the page or at the beginning of the next one. At the end of each page, there should be at least one line of text after the headings or subheadings. Additionally, the text should be justified.

2.6. Writing Plan

Chapter headings should be placed at the top of a new page, and they should be centered within the text block. Meanwhile, section titles should be aligned to the left of the text block, and all paragraph beginnings that follow the titles must start 1 cm away from the left edge of the text block.

2.7. Expression

The thesis must be written in Turkish that is fluent and easily understandable. It should adhere to the rules of Turkish spelling, and rely on the Dictionary and Spelling Guide published by the Turkish Language Association for guidance on grammar. For words that have established Turkish equivalents, those equivalents should be used.

It is recommended to avoid using foreign words that have not been Turkishized when expressing statements. However, when it comes to scientific expressions and names, some tissue, organ, cell, chemical substance and drug names and medical terms such as cancer, anaphylaxis, trauma, iodine, alcohol, calcium, phosphorus, injection and shock, which are Turkishized and widely known, should be used as they are read. If necessary, their original spellings should be given in parentheses, and scientific terms that are not widely used should be given in their original spellings.

In writing, it is preferable to use the third person passive voice (such as determined, seen, examined) instead of first or second person.

Sentences should not begin with a number unless there is a necessity. Numbers can also be written with letters, but numbers consisting of more than one word are written separately (such as three hundred and sixty-five). Numbers with four or more digits are either divided into groups of three starting from the end and written with a comma between them (such as 1,512,612) or the words thousand, million, billion and trillion are written with letters for easy reading (such as 1 billion 512 million). In decimal numbers, period should be used at the beginning of the decimal digit (e.g. 125.32). When writing percent (such as 50%) and thousandth (such as %5) signs, no space should be left between

the number and the sign. Ordinal numbers can be written and numbered (e.g. 15th, 8th). Multiplication numbers are indicated in writing, not in numbers (such as two, one hundred). Additions to common fractions are written based on the number below (4/8th, 1/2th, etc.).

2.8. Page Numbering

Since it will be printed back-to-front, page numbers should be written at the bottom of the page and aligned to the center of the page. Acceptance and Approval, Acknowledgments, Table of Contents, Index of Symbols, Index of Abbreviations, List of Figures / Pictures / Tables, Özet and Abstract should be numbered with lowercase Roman numerals (i, ii, iii, iv, v, ...), and the main text starting with the INTRODUCTION should be numbered as "1, 2, 3, 4, 5, ...". The outer cover page and inner cover of the thesis are not numbered.

2.9. Chapters and Sections

In theses, chapter headings should be numbered as "1., 2., 3., ...". Section titles should be numbered as "1.1., 1.1.1.1., 1.2., 1.2.1., ..." and one blank space should be left after the last point.

First-order chapter headings must be capitalized. The first letter of each word should be capitalized and the others should be lowercase in second-order section titles. Conjunctions like "and, or, with, or or" must be lowercase in section titles except for first-order chapter headings. First-order chapter headings should be written in 14 pt. and bold. Second, third and fourth level headings should be written in 12 pt. and bold.

All section titles, except for the main chapter headings, should be left-aligned and numbered to avoid alignment issues. It is recommended that headings should not be the last line on a page, and there should be at least one line of text after any title or subheading at the end of a page.

First degree chapter headings should always start on a new page.

2.10. Quotes

When including a direct quote of more than one sentence from another source in your thesis, it should be presented as a separate paragraph from the main text. The entire quote should be *italicized* and enclosed within quotation marks ("..."). Use a one-line space between lines in the quote.

2.11. Footnotes

On any page of the thesis, very brief and concise explanations, which, when written in the text, distract from the subject and prevent continuity in reading, can be given as footnotes at the bottom of the same page, provided that they do not exceed a few lines.

Footnotes can be added to a word processing program like Microsoft Office Word, Apple Pages, OpenOffice, LibreOffice, and LaTeX. They should not extend beyond the text block.

Footnotes should be written in 10-point font. Smaller characters are available when needed. If there is more than one footnote, they should be numbered in order of appearance in the text.

2.12. Citing References in the Thesis

It is important to use references in a proper, balanced and accurate way in the text. When citing a reference, it is necessary to read the full text of the reference paper. If the information is obtained through another reference without seeing the original, that reference cannot be cited. Also, it is recommended to use references that are relatively recent.

All works cited in the thesis must be included in the "References" section. The citations in the thesis text and the works cited in the references section must match exactly. The American Psychological Association (APA-7) writing guide should be taken as a basis for in-text citation/citation and references. It is recommended to use standard software packages such as EndNote, Mendeley, Zotero or Reference Manager for citation and bibliography preparation. EndNote, Mendeley or Zotero software packages can be accessed and downloaded from our university library website.

The following source can be used for information about APA writing guide and referencing:

- American Psychological Association (2020). *Publication Manual of the APA, Seventh Edition* (2020). Access address: <https://apastyle.apa.org>

References should be used in the thesis according to the examples given below.

Single-author references:

When citing single-author references, the surname of the author and the year in parentheses should be given wherever it is mentioned in the text.

Citing a reference at the beginning of a sentence

Grossweiner (2008) found that nonadherence to the recommended diet is common in patients with hypertension.

Citing a reference at the end of a sentence

One study found that non-compliance with the recommended diet was common in patients with hypertension (Wyatt, 2015).

References with two authors:

When giving references with two authors, the surnames of both authors and the year in parentheses should be indicated wherever they are mentioned in the text; the surnames of the authors should be connected with the conjunction “and”.

Citing a reference at the beginning of a sentence

Guyton ve Hall (2012) found that nonadherence to the recommended diet is common in patients with hypertension.

Citing a reference at the end of a sentence

Nonadherence to the recommended diet was common among hypertensive patients, as found by a study (Guyton ve Hall, 2012).

References with three or more authors:

When citing studies with three or more authors, the phrase "et al." should be written next to the surname of the first author and the year should be given.

Citing a reference at the beginning of a sentence

Whelton et al. (2015) argue that firms protect their reputations in this way.

Citing a reference at the end of a sentence

The frequency rather than the duration of aerobic exercise has a positive effect on blood pressure (Whelton vd., 2015).

Citing of multiple refernces in the same place:

If multiple references are cited at the same place, they should be listed alphabetically based on the authors' surnames and separated by semicolons (;).

Citing a reference at the beginning of a sentence

Aksoy et al. (2013); Aytan (2011); Encar and Gürsoy (2012) reported that noncompliance with the recommended diet is common in patients with hypertension.

Citing a reference at the beginning of a sentence

Melatonin secretion alters the effect of the chemotherapeutic agent (Aksoy et al. 2013; Aytan, 2011; Encar and Gürsoy, 2012).

Multiple works by the same author, published in the same year:

If an author has multiple works in the same year, they are differentiated by lowercase letters following the year. The letters are assigned alphabetically based on the order of the works.

Citing a reference at the beginning of a sentence

Gregory (2012a, 2012b) found that noncompliance with recommended diet is common in patients with hypertension.

Citing a reference at the end of a sentence

It is important to update the knowledge of healthcare workers to ensure that babies are breastfed for a longer duration (Özsoy and Aksu, 2019a, 2019b).

Studies by the same author in different years:

If an author's publications from different years are cited at the same time, the publication dates should be listed chronologically and separated by a commas (,).

Citing a reference at the beginning of a sentence

Gregory (2012, 2013) found that non-compliance with the recommended diet is common in patients with hypertension.

Citing a reference at the end of a sentence

It has been found that non-compliance with the recommended diet is common in hypertension patients (Noorimotlagh et al., 2018, 2020).

References by different authors with the same surname

If there are two or more authors with the same surname in the bibliography, the first letter of the first author's name is used, even if the years are different.

Citing a reference at the beginning of a sentence

R. Gregory (2012) found that nonadherence to the recommended diet is common in patients with hypertension.

H.M. Gregory (2012) stated that antidiuretics are used primarily in the treatment of patients with hypertension.

Citing a reference at the end of a sentence

Nonadherence to the recommended diet has been reported to be common in patients with hypertension (R.M. Gregory, 2012).

References by authors with the same surname in the same year about the same information

The first letter of the author's name is written before the surname and alphabetized.

Citing a reference at the beginning of a sentence

H.M. Gregory (2012) and R. Gregory (2012) found that nonadherence to the recommended diet is common in patients with hypertension.

Citing a reference at the end of a sentence

Nonadherence to the recommended diet has been reported to be common in patients with hypertension (H.M. Gregory, 2012; R. Gregory, 2012).

Electronic Journals or Web Pages

It is not recommended to rely excessively on internet pages as sources for research. In cases where it is necessary, official websites of internationally and nationally recognized scientific boards and organizations (sites with "gov", "edu", "org" extensions such as WHO, FDA, TÜBİTAK) should be used. Websites of commercial or private individuals and organizations, as well as magazine sites with unproven reliability, should not be used unless necessary. The websites used should contain information from publications of scientific persons, organizations supervised by a scientific board, publications of state, university and public institutions.

Examples:

The Turkish Language Association (TDK, 2019) Spelling Guide is available online.

According to the website of the Ministry of Health (2019), cancer is the second leading cause of death.

The following text demonstrates how to properly reference sources in your writing. It shows both the first use and subsequent uses of the references in the text:

In-text first use	Subsequent in-text uses
(Turkish Statistical Institute [TÜİK], 2019)	(TÜİK, 2019)
(World Health Organization [WHO], 2019)	(WHO, 2019)

Original computer programs:

If an original computer program is referred to in the thesis, the name and version date of the software should be written in parentheses.

Example:

The research data were evaluated using SPSS 18 (PASW Inc., Chicago. IL. USA) package program.

Indirect references (citing the source in another publication):

When citing a reference, it is best to use a direct source. However, if you have to use an indirect source, which is a reference mentioned in a publication but is not accessible, limit the number of references to a maximum of three. Indirect sources should be cited in the text, following the examples provided below.

Examples:

Citing Haas (2013), Lowe et al. (2015) state that the most common complication of diabetes is neuropathy.

According to Lowe et al. (2015), Haas (2013) found that the most common complication of diabetes is neuropathy.

2.13. Index of Symbols and Index of Abbreviations

Abbreviation is a shortened version of a word, term, or proper name using one or more of its letters.

When writing a thesis, it is advisable to use standard abbreviations as much as possible. However, if abbreviations other than standard ones are needed, they should be used sparingly. For frequently used terms consisting of more than one word, use known abbreviations, if any, by using the initials in parentheses after the term at its first mention in the text. Afterward, the abbreviation can be used throughout the rest of the text.

It is recommended to include an alphabetical index of symbols and abbreviations on the front page. The Turkish Language Association Spelling Guide and Turkish spelling rules should be followed when using symbols and abbreviations in thesis writing.

International abbreviations of units of measurement are used; m (meter), mm (millimeter), cm (centimeter), km (kilometer), g (gram), kg (kilogram), l (liter), hl (hectoliter), mg (milligram), m² (square meter), cm² (square centimeter), etc.

Abbreviations made with lower case letters have additions based on their pronunciation, such as cm, kg, mm, and kr. On the other hand, when suffixes are added to abbreviations made with capital letters, the pronunciation of the last letter of the abbreviation is the basis, as in CIS, TDK, THY, TRT, TL, and so on. However, when abbreviations that are made with capital letters but read like a word are used, the pronunciation of the abbreviation is the basis for the suffixes added, such as ASELSAN, BOTAŞ, NATO, UNESCO, and others.

The Turkish equivalent of abbreviations in a foreign language should be written in parentheses after the abbreviations in that language are given. For example;

MLP : Multi-Layer Perceptron (Çok Katmanlı Algılayıcı)

SVM : Support Vector Machine (Destek Vektör Makinesi)

2.14. Units

When expressing quantities, it is best to avoid using practical units unless it is absolutely necessary. Instead, it is recommended to use basic and derived units of the International System of Units (SI), along with their standard symbols and examples. It is also helpful to write them in italics, as this can help to establish a common terminology across different fields and disciplines.

It is recommended to follow standard abbreviations as per the "Measurements and Adjustment Law" numbered 3516, which was published in Official Gazette of the Republic of Türkiye No. 20056 on January 21, 1989, and the "Regulation on the International System of Units", which was published in Official Gazette of the Republic of Türkiye No. 24792 on June 21, 2002, and came into effect on June 1, 2003. Also, the latest edition of the Turkish Language Association Spelling Guide and its website can be used as a reference for correct spelling.

If the word describing the unit has a Turkish or Turkishized equivalent, this equivalent should be used in clear writing, but international standards should be strictly followed in the writing of unit symbols, and arbitrary abbreviations should not be made. For example, for the abbreviations of units written as seconds, centimeters, liters in clear writing, s, cm, l should be written; arbitrary abbreviations such as sec, sm, lt should not be used.

A period should not be placed after the word or abbreviation describing the unit (For example, it should be written as cm, not cm.). One blank character should be left between the number or unit describing the quantity (For example, it should be written as 1 cm, not 1 cm).

2.15. Figures, Pictures and Tables

Figures refer to all kinds of graphics, drawings, diagrams, and charts except for photographs, which are referred to as pictures. When inserting figures, pictures or tables in a thesis, they should be placed on the page where they are first mentioned in the text or on the following page, without disrupting the page layout. Their dimensions should never exceed the frame of the text block. If they are narrower than the text block, they should be centered on the text block. It is acceptable to have several related figures, pictures, and tables on the same page. When more than one related figure or picture is on the same page, they should be labeled with the letters (a), (b), (c), etc. respectively, but given a single figure or picture number. The title of the figure or picture should include an explanation of the lettering.

All titles for figures, pictures, and tables in the thesis should use the same font and size. The title should be brief and accurately reflect the content of the figure, picture, or table. Avoid including unnecessary details in the titles. For figures, pictures, or tables that take up more than one page, the figure, picture, or table number and description should

appear on each page. Additionally, include the phrase "(continued)" in parentheses. Also, provide explanations for each figure, picture, or table. If a figure, picture, or table is too large to fit within the margins, rotate it counterclockwise 90°. Place it only on the page reserved for the particular figure, picture, or table in question.

Please make sure to leave one line space between the last line of your text and the title of the table. The title of the table should be written above the table without any space. In case there is a footnote to the table, it should be written below the table without a space. Remember to leave one line space when switching back to the text.

Please make sure to leave 1 line space between the last line of the text and any figure or picture. The title of the figure or picture should be located below it, without any space in between. If there is a footnote to the figure or picture, it should be written below the title of the figure or picture, also without any space. When transitioning back to the text, please leave 1 line space. It is important to note that any explanations should be stated in the footnote and not in the title. Additionally, any non-standard abbreviations should be explained in the footnote. Please use indices 1, 2, 3, etc. for explanations.

Statistical variables such as the standard deviation or standard error of the mean should be specified.

Make sure that each table, figure or picture is referred to in the text.

If data from another published or unpublished source is used, permission must be obtained and cited in the acknowledgments section.

Tables may be prepared in smaller font size (12 pt.) than the font size used in the text, and font size and line spacing may be reduced when necessary, provided that they are readable.

As part of the thesis study, it is important to avoid using photographs that reveal the identity of individuals. If you do use photographs, you must obtain written permission and ensure that any identifying features are obscured. Any permissions you obtain should be included in the appendices of the thesis.

When including figures, pictures, or tables in your work that are taken directly from other sources or inspired by other authors, you should include a reference at the end of the title. Make sure to follow the referencing rules specified in the text.

3. EDITING THE THESIS CONTENT

3.1. Content of the Thesis

The main sections of the thesis are as follows:

ACCEPTANCE AND APPROVAL

DEDICATION (if any)

ACKNOWLEDGMENT

STATEMENT OF SCIENTIFIC ETHICS

TABLE OF CONTENTS

INDEX OF SYMBOLS (if any)

INDEX OF ABBREVIATIONS (if any)

LIST OF FIGURES (if any)

LIST OF PICTURES (if any)

LIST OF TABLES (if any)

ÖZET (Abstract in Turkish)

ABSTRACT

1. INTRODUCTION

2. LITERATURE REVIEW

3. MATERIAL AND METHOD

4. FINDINGS

5. DISCUSSION

6. RESULTS

REFERENCES

APPENDICES

CURRICULUM VITAE

Instead of the title “Material and Method”, one of the titles “Method” or “Theory” can be used in line with the aims and scope of the thesis.

If deemed necessary, the “Findings” and “Discussion” sections can be combined under a single section titled “Findings and Discussion”.

3.2. Thesis Cover and Inner Cover

The outer cover should be prepared as 200-300 g white chrome cardboard.

“T.C. AYDIN ADNAN MENDERES UNIVERSITY, GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES, DEPARTMENT AND PROGRAM NAME” should be written in capital letters, centered from the top edge of the cover, in five lines, 1 line spacing, using 12-point Times New Roman. The following line should include the Thesis Year-Program Code-Thesis Number.

Example: For MSc theses written in Turkish

**T.C.
AYDIN ADNAN MENDERES ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
MATEMATİK VE FEN BİLİMLERİ EĞİTİMİ
FEN BİLGİSİ EĞİTİMİ YÜKSEK LİSANS PROGRAMI
2023-YL-078**

Example: For PhD theses written in Turkish

**T.C.
AYDIN ADNAN MENDERES ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
MATEMATİK VE FEN BİLİMLERİ EĞİTİMİ
FEN BİLGİSİ EĞİTİMİ DOKTORA PROGRAMI
2023-DR-078**

Example: For MSc theses written in English

**REPUBLIC OF TÜRKİYE
AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS AND SCIENCE EDUCATION
MASTER’S PROGRAMME IN SCIENCE EDUCATION
2023-MSc-078**

Example: For PhD theses written in English

**REPUBLIC OF TÜRKİYE
AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS AND SCIENCE EDUCATION
DOCTORATE PROGRAMME IN SCIENCE EDUCATION
2023-PhD-078**

After leaving 3 line spaces with a 12-point font size, the title of the thesis should be written in 16-point, centered, capitalized and bold. If the thesis title does not fit on one line, it should be written with 1.5 line spacing. When mentioning the genus or species name of any organism in the title of a thesis, it is important to follow scientific rules. The genus name should be written in uppercase letters, while the species name should be written in lowercase letters. Additionally, Latin names should always be italicized.

Sample Thesis Title:

**BIOLOGICAL CONTROL OF GREY MOULD DISEASE
(*Botrytis cinerea* Pers.) ON GRAPE BY ANTAGONIST
BACTERIA**

On the outer cover, the candidate's name should be in upper case, surname in all capital letters, the thesis should be a PhD/Master's thesis, the title of the advisor should be in upper case, surname in all capital letters, and the city and year should be included (12 point Times New Roman).

The spine of the outer cover should include the name of the candidate, the name of the program and the year (12-point Times New Roman).

The content and layout of the inner cover page must be exactly the same as the outer cover. The inner cover should be written on normal paper used in thesis writing.

If the thesis is supported by Aydın Adnan Menderes University Scientific Research Projects (BAP) Unit or another organization, this should be indicated on the inside cover with the project number.

The inner covers of the Master's theses prepared in Turkish and English should be prepared in accordance with the sample format given in Appendix 1.1 and Appendix 1.2, respectively.

The inner covers of PhD theses prepared in Turkish and English should be prepared by the sample format given in Appendix 1.3 and Appendix 1.4, respectively.

Appendix 1.5 and Appendix 1.6 provide the required format for the Turkish and English inner covers of non-thesis Master's program term projects, respectively.

3.3. Front Pages

3.3.1. Acceptance and Approval

Once the thesis is completed, the "Acceptance and Approval" page is signed by the jury members and added to the thesis during the printing stage. The final version of the thesis is then submitted to both the jury members and the Graduate School Directorate. The Graduation Commission of the Graduate School will examine the thesis and once any necessary corrections are made, it will be bound and delivered to the Graduate School. If the study is supported by the Aydın Adnan Menderes University Scientific Research Projects (BAP) Unit, the final version of the thesis, signed and bound by the Director of the Graduate School, must be submitted to the BAP Unit. Additionally, for Master's theses prepared in Turkish and English, the Acceptance and Approval page must be prepared in accordance with the sample format given in Appendix 2.1 and Appendix 2.2, respectively.

For PhD dissertations written in Turkish and English, the Acceptance and Approval page must follow specific formats given in Appendices 2.3 and 2.4, respectively.

For term projects written in non-thesis Master's programs, the Turkish and English Acceptance and Approval page must be written in the format given in Appendix 3.1 and Appendix 3.2, respectively.

3.3.2. Dedication

If you decide to include a dedication in your work, it should be placed on a separate page. The dedication page doesn't require a title, but it should have an odd-numbered page number. If you choose to use a dedication, it should be brief and centered both horizontally and vertically on the page. Examples of dedication pages in Turkish and English can be found in Appendix 4.1 and Appendix 4.2.

3.3.3. Acknowledgment

The acknowledgments section should be as brief and concise as possible and should not exceed one page. In the acknowledgements page, the authors should thank the individuals who have directly contributed to the thesis and its preparation, as well as the individuals and organizations that have contributed outside of their usual duties, even if they are not directly involved. If the thesis work was explicitly supported by any institution (e.g. TUBITAK, SPO, TAGEM, BAP, etc.), it is obligatory to indicate the supporting institution on the acknowledgment page.

3.3.4. Table of Contents

The table of contents should follow the example in Appendix 6.

All pages except the outer cover, Acceptance and Approval, Statement of Scientific Ethics, Acknowledgements, Table of Contents, Index of Symbols, Index of Abbreviations, Index of Figures, Index of Illustrations, Index of Tables, Abstract, Introduction, Resource Summaries, Other main chapter headings, References, Appendices, Resume and sub-chapter headings in the thesis text must be shown in full in the "TABLE OF CONTENTS" index. When necessary, Results and Discussion can be given together.

Each title used in the thesis should be included in the "TABLE OF CONTENTS" without any changes.

In the "TABLE OF CONTENTS", only the number of the first page on which that heading appears should be written at the level of each heading. The title of the "TABLE OF CONTENTS" should be centered on the upper border of the text block and written in bold. There should be 2 line spacing after the title. The page numbers of the chapter headings and titles of sections and subsections in the table of contents should be right justified. If there are appendices that need to be presented separately from the thesis, they should be shown at the end of the index.

3.3.5. Index of Symbols and Index of Abbreviations

The Index of Symbols and the Index of Abbreviations are prepared on separate pages. Both indexes should be prepared in alphabetical order. If there are Greek alphabet letters such as α , β , γ , ... among the symbols, these letters should be listed where their Latin alphabet equivalents can be found (for example: α is listed where a would be found,

β where b would be found). Examples for the Index of Symbols and Index of Abbreviations are given in Appendix 7.1 and Appendix 7.2 respectively.

In the index, any abbreviation names should be written in bold, while their explanations should be in regular text. Symbols and their explanations in the Symbols Index should not be bolded. If the symbol represents a Greek character, a constant, or a scalar variable, it should be italicized; however, if it denotes a vector or matrix, it should be bold.

The title should be centered on the upper border of the text block and the text should start after 2 line spacing.

3.3.6. List of Figures/ Pictures/ Tables

The List of Figures/Pictures/Tables should be organized on a separate page. The title should be written centered from the upper border of the text block and the text should start after 2 line spacing. List of Figures / Pictures / Tables should be prepared in accordance with the format in Appendix 8.1, Appendix 8.2 and Appendix 8.3 respectively.

The List of Figures/Picture/Tables should be numbered as "**Figure 1.1, ..., Figure 2.1, ..., Picture 1.1., ..., Picture 2.1., ..., Table 1.1., ..., Table 2.1.**" according to the order of transition within the text sections. If necessary, sub-groups should be created for each (**Example: Figure 1.a., Figure 1.b., Figure 2.a., Figure 2.b. etc.**).

4. ABSTRACT PAGES

The abstract should be written in the same font and font size as the main text of the thesis. In the abstract, the purpose and scope of the thesis, the method(s) used, and the conclusion(s) should be clearly and concisely stated. A structured abstract may be used in this section if the thesis advisor finds it appropriate. If a structured abstract is used, the subheadings "purpose", "material and method", "findings" and "conclusion" should be used in the abstract. Abstract and abstract should be prepared in not less than 200 words and not exceeding 2 (two) pages.

References, figures, tables and formulas are not given in the abstract.

4.1. Abstract

The title of the abstract (ÖZET/ABSTRACT) should be written in capital letters, bold and 14 pt. font size, centered from the upper border of the text block. There should be 2 line spaces after the title. On the ÖZET/ABSTRACT page, the title of the thesis should be written first (all letters capitalized, 12 pt. and centered on the page) and after a line space, the surname of the thesis owner (only the first letter capitalized) and the first letter of his/her name in capital letters, the name of the university, the name of the institute, respectively, by putting a comma between them, The name of the program with the name of the department, master's/doctoral thesis, advisor's name, surname, city and year should be written in bold letters and this information should be justified on the page, and the ÖZET/ABSTRACT text should be written with one line spacing without starting a paragraph.

At the end of the abstract text, after 1.5 line spacing, the title "Keywords:" should be opened in bold font and at least 3 keywords related to the thesis should be written on the same line, with commas between them and only the first letters of the words should be capitalized.

When using Turkish keywords in a technical field, it is important to refer to a standard glossary of technical terms specific to the field of study. For example, you can use the Turkish Glossary of Science Terms by TÜBA or the Glossary of Informatics

Terms published by the Turkish Standards Institute (TSE). You can find sample ÖZET and ABSTRACT pages in Appendix 9 and Appendix 10 for reference.

Examples of structured ÖZET and ABSTRACT are presented in Appendix 11 and Appendix 12, respectively.

5. THESIS WRITINGS

5.1. Introduction

This section should include information explaining the thesis topic. The nature and scope of the problem researched should be clearly presented, the importance of the study should be briefly emphasized by referring to the publications related to the current status of the subject, and the contribution of the thesis to science and/or the innovations targeted in terms of methodology should be expressed. The introduction should not include information on material and method, findings or discussion. In the last paragraph of this section, the purpose of the thesis and the hypothesis/research questions of the study should be clearly stated.

5.2. Literature Review

In this section, information that can shed light on the research and facilitate the understanding of the subject under investigation should be given in a short and concise manner and previous researches should be introduced. Information should also be given about the researches that examine the subject with different methods and materials. In addition, brief information about the results of previous studies on the subject should be given in order to compare the results of the research. The information in this section should generally be given in a historical order and the reader should have the opportunity to familiarize himself/herself with the development of the work done up to that point, the issues that have been clarified and the new problems that have emerged. It should be ensured that the general information does not exceed half of the thesis text.

5.3. Materials and Method

If there is material used in the thesis study, “Material” and “Method” should be given as separate sections in this chapter. The material used should be explained in the “Material” section. The type of research (descriptive, experimental, prospective, etc.), the individuals used, the universe (population) and sample size, how and by which method the sample was selected should be stated. The date of data collection, data collection tools (experimental tools, questionnaires, scales with validity and reliability, etc.) and who prepared the data collection tools should be written by citing the source when necessary.

Forms used (questionnaires, scales, etc.) should be presented as an attachment. Information on the commercial products, chemicals and devices used (brand, model, manufacturer, city, country, etc.) should be given in this section.

If the thesis does not include an experimental study or any materials, the chapter can be titled as “Method” or “Theory”. In this case, the section title is not used.

In the method section, the method applied or used should be explained by citing the source. The reasons for the selection of the method used, its superior or weaknesses should be stated. A method diagram can be used to facilitate understanding of the method, especially for experimental or randomized controlled studies. The dependent and independent variables of the study, how the data were evaluated, the criteria/reasons for accepting or excluding the data from the study, what was done for missing data, and the statistical tests applied should be explained in this section.

The permissions obtained for the study and ethics committee approval should be specified in this section and the relevant documents should be presented as **Appendix 1**, **Appendix 2**, **Appendix 3**, ... in the “APPENDICES” section.

5.4. Findings

If the thesis includes experimental studies rather than just theoretical research, the findings should be presented in a dedicated section without any discussion or interpretation. This section will typically include tables, figures (such as graphs, charts, drawings, and diagrams), as well as pictures of the findings.

If your thesis does not involve an experimental study and instead uses a theorem-proving approach, you may present the conclusion theorems of the lemmas and theorems that were proven in the “Method” or “Theory” section in a separate section. This section can be titled “Results and Discussion” if it fits well with the overall structure of your thesis. Additionally, you may include examples to illustrate your findings.

5.5. Discussion

In this chapter, the material-method (method or theory) and findings of the thesis should be discussed within the framework given in the introduction, general information and method sections. The findings or the theorems proved should be compared with the local and foreign literature, similarities or differences should be indicated, if there are differences, the reasons should be explained, and the meaning of the findings should be

interpreted. In the discussion, the thoughts of the researcher should be included, but comments that are not compatible with reality should be avoided. In this section, unnecessary subheadings should not be created and findings should not be repeated. Here, it should be stated whether the hypotheses of the thesis are confirmed or not, the contributions of the research to science and the limitations of the research.

If deemed necessary, the “Discussion” chapter can be given together with the “Findings” chapter under the title “Findings and Discussion”.

5.6. Results

In this section, the extent to which the aim of the thesis stated in the introduction should be stated in general and clear terms, but statistical expressions should not be used. The recommendations that the researcher wants to convey according to the specific findings obtained from the thesis study should be included in this section. Recommendations should be based on research findings and results. However, recommendations should not be made for situations that are not included in the research findings. Conclusions and recommendations can be written in bullet points. This section should not exceed 2 pages if possible.

6. REFERENCES

The references section is a list of sources used in a thesis, seminar or term project. It is important to include complete and accurate information in the bibliography, as it provides the reader with access to the sources. To present the sources in this section, it is recommended to follow the American Psychological Association (APA-7) writing guide. However, for theses written in Turkish, it is important to note that the '&' sign is not recognized as a punctuation mark by TDK (Turkish Language Association). Therefore, it is recommended to use 'and' instead of '&' in the References section. Additionally, the references should be written in accordance with the examples provided in Appendix 13, based on their respective types.

When citing works with three or more authors in your academic writing, you should use abbreviations. For Turkish theses, the abbreviation "vd." (meaning "and others") should be added after the first author's name. For theses written in English, the Latin abbreviation "et al." should be used.

References should be listed alphabetically by the author's surname and include a DOI (Digital Object Identifier) number when available.

All references cited in the text should be listed in the references section, and all references in the references section should be cited in the text.

The references section of the thesis should begin with a centered title "REFERENCES" written in capital letters. There should be a 2-line spacing after the title to start the index. The references index should use the same font and font size as the rest of the thesis. Paragraph setting in references according to Microsoft Office Word program as follows.

General: Alignment (Justify), Outline Level (Body Text),

Indentation: Right-Left (0 cm), Custom (Hanging), Value (1 cm),

Spacing: Before (0 pt) and After (6 pt), Line spacing (1.5 lines)

7. APPENDICES

This chapter is meant to include materials that are of supplementary nature and are too long to be included in the main thesis text. Such materials may include explanations, sample calculations, derivation of formulas, comprehensive and detailed experimental data, questionnaire forms, supplementary charts, thesis study permission letters, and ethics committee approval letter photocopy, among others. These materials should be given an appropriate title and presented in bold in the order of presentation as **Appendix 1**, **Appendix 2**, **Appendix 3**, and so on. Each appendix should start on a new page. The page numbers of the appendices section should continue with the page number following the end of the references section.

Furthermore, any research-related material that cannot be presented with the thesis due to their size, quality, and/or scope (such as printed documents, cassettes, CDs, USB sticks, etc.) can be presented separately from the thesis under the title of appendices. These materials should be presented in a separate cover or a suitable envelope, with a presentation style whose content and page layout are the same as the thesis cover. The fonts and sizes used in the appendices do not have to match the fonts and sizes of the thesis text.

8. STATEMENT OF SCIENTIFIC ETHICS

For theses produced from the author's own scientific publications of which the author is the main or co-author, the Statement of Scientific Ethics page must be provided with the reference information of the publications, including the statement “This thesis is derived from the publication(s) for which I am the lead or co-author and whose citation information is given below.”

The sample Statement of Scientific Ethics page for such theses should be as presented in Appendix 5.1 for theses written in Turkish and Appendix 5.3 for theses written in English.

If the thesis is not based on the author's own publication, the Statement of Scientific Ethics should be as shown in Appendix 5.2 for Turkish theses and Appendix 5.4 for English theses.

Statement of Scientific Ethics page should be on an odd numbered page.

9. CURRICULUM VITAE (CV)

The Curriculum Vitae (CV) page should be at the end of the thesis, formatted as shown in Appendix 14.

10. THESIS ORIGINALITY REPORT

In order for the thesis to be considered out of the scope of plagiarism by the Graduate School, the similarity rate specified in the plagiarism detection program report should not exceed 25%. If the results of the report are above this rate, the theses are not taken to the thesis defense until a maximum 25% similarity rate is achieved. However, if the thesis is produced from the author's own scientific publications of which the author is the main or co-author, the thesis sections related to the publication are not taken into consideration in the similarity report by obtaining a written declaration.

While creating the similarity report, the pages numbered with Roman numerals, which contain almost common information in all theses, are excluded from the scope and the thesis is examined starting from the Introduction section. References and citations are excluded. In addition, in theses with predominantly textual expressions, references that match five or fewer consecutive words are not included in the similarity report. For theses with a theoretical background based on formulas and equations, references with a similarity rate of less than or equal to 1% are excluded from the similarity report.

The fact that the similarity rate in the Thesis Work Originality Report is not over 25% does not mean that there is no plagiarism in the thesis. Even if the similarity rate is below these rates, Law No. 5846 on Intellectual and Artistic Works must be complied with. In case of non-compliance with this law, the responsibility arising from this belongs to the student and his/her advisor.

11. THE USE OF GENERATIVE AI LANGUAGE MODELING TOOLS

AI language modeling tools such as ChatGPT, Dall-E, Copilot, Midjourney, etc. tend to generate false information, incorrect reference and citation information, and unverified data. It is therefore the responsibility of the thesis author to verify the accuracy and validity of the content generated from these tools, including references and citations.

Generative AI tools can serve various purposes such as learning, proofreading, and editing. If such tools are used in a thesis, it is important to clearly state the contribution of the tool to the thesis. However, if it is discovered that the thesis contains fabricated or falsified data that was generated using these tools, the thesis will be considered plagiarized and will not be accepted.

T.C.
AYDIN ADNAN MENDERES ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
MATEMATİK VE FEN BİLİMLERİ EĞİTİMİ
FEN BİLGİSİ EĞİTİMİ YÜKSEK LİSANS PROGRAMI
2014-YL-078

**FEN BİLİMLERİ ÖĞRETMEN ADAYLARININ ÇEVRE
DOSTU DAVRANIŞLARININ BELİRLENMESİ: İKLİM
DEĞİŞİKLİĞİ ÖRNEĞİ**

Emrah HİĞDE
YÜKSEK LİSANS TEZİ

DANIŞMAN
Prof. Dr. Ceren ÖZTEKİN

Bu tez Aydın Adnan Menderes Üniversitesi Bilimsel Araştırma Projeleri Birimi tarafından proje numarası ile desteklenmiştir.

AYDIN - 2014

REPUBLIC OF TÜRKİYE
AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS AND SCIENCE EDUCATION
MASTER'S PROGRAMME IN SCIENCE EDUCATION
2023-MSc-078

**IDENTIFYING DETERMINANTS OF PRO-
ENVIRONMENTAL BEHAVIORS: A CASE FOR
CLIMATE CHANGE**

Emrah HİÇDE
MASTER'S THESIS

SUPERVISOR
Prof. Dr. Ceren ÖZTEKİN

This thesis was supported by Aydın Adnan Menderes University Scientific Research
Projects Unit (Project number)

T.C.
AYDIN ADNAN MENDERES ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
MATEMATİK VE FEN BİLİMLERİ EĞİTİMİ
FEN BİLGİSİ EĞİTİMİ DOKTORA PROGRAMI
2018-DR-078

ORTAOKUL 7. SINIF ÖĞRENCİLERİ İÇİN
HAZIRLANAN STEM ETKİNLİKLERİNİN FARKLI
DEĞİŞKENLERE YÖNELİK ETKİSİNİN İNCELENMESİ

Emrah HİĞDE
DOKTORA TEZİ

DANIŞMAN
Doç. Dr. Hilal AKTAMIŞ

Bu tez Aydın Adnan Menderes Üniversitesi Bilimsel Araştırma Projeleri Birimi tarafından proje numarası ile desteklenmiştir.

AYDIN - 2018

REPUBLIC OF TÜRKİYE
AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS AND SCIENCE EDUCATION
DOCTORATE PROGRAMME IN SCIENCE EDUCATION
2023-PhD-078

INVESTIGATION THE EFFECT OF THE STEM
ACTIVITIES PREPARED FOR 7TH CLASS STUDENTS IN
TERMS OF DIFFERENT VARIABLES

Emrah HİÇDE

DOCTORAL DISSERTATION

SUPERVISOR

Assoc. Prof. Dr. Hilal AKTAMIŞ

This thesis was supported by Aydın Adnan Menderes University Scientific Research
Projects Unit (Project number)

AYDIN - 2023

T.C.
AYDIN ADNAN MENDERES ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
DİSİPLİNLER ARASI İŞ SAĞLIĞI VE GÜVENLİĞİ ANABİLİM DALI
DİSİPLİNLER ARASI İŞ SAĞLIĞI VE GÜVENLİĞİ(İ.Ö)
TEZSİZ YÜKSEK LİSANS PROGRAMI

İNŞAAT SEKTÖRÜNDE İŞ GÜVENLİĞİ

Tufan TÜRKÖZ
DÖNEM PROJESİ

DANIŞMAN
Doç. Dr. Atalay ÖZEKER

REPUBLIC OF TÜRKİYE
AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
OCCUPATIONAL HEALTH AND SAFETY DEPARTMENT
(INTERDISCIPLINARY)
MASTER'S PROGRAMME (NON-THESES)

OCCUPATIONAL SAFETY IN CONSTRUCTION
INDUSTRY

Tufan TÜRKÖZ
TERM PROJECT

SUPERVISOR
Assoc. Prof. Dr. Atalay ÖZEKER

KABUL VE ONAY

T.C. Aydın Adnan Menderes Üniversitesi Fen Bilimleri Enstitüsü Bahçe Bitkileri Yüksek Lisans Programı öğrencisi Büşra ÇALIŞKAN tarafından hazırlanan “KESTANELERDE DERİM SONRASI BAZI UYGULAMALARIN MEYVE KALİTESİ VE DEPOLAMA SÜRESİ ÜZERİNE ETKİLERİ” başlıklı tez, aşağıdaki jüri tarafından Yüksek Lisans Tezi olarak kabul edilmiştir.

Tez Savunma Tarihi: .../.../20...

Jüri Üyeleri

ONAY:

Başkan : (Unvan, Adı SOYADI)
..... (Üniversite)
... (imza) ...

Üye : (Unvan, Adı SOYADI)
..... (Üniversite)
... (imza) ...

Üye : (Unvan, Adı SOYADI)
..... (Üniversite)
... (imza) ...

Bu tez Aydın Adnan Menderes Üniversitesi Lisansüstü Eğitim-Öğretim ve Sınav Yönetmeliğinin ilgili maddeleri uyarınca yukarıdaki jüri tarafından uygun görülmüş ve Fen Bilimleri Enstitüsünün tarih ve sayılı oturumunda alınan numaralı Yönetim Kurulu kararıyla kabul edilmiştir.

.....

Enstitü Müdürü

ACCEPTANCE AND APPROVAL

The thesis titled “THE EFFECTS OF SOME POSTHARVEST APPLICATIONS ON CHESTNUTS FRUIT QUALITY AND STORAGE TIME”, prepared by Büşra ÇALIŞKAN, a student of Department of Horticulture Program at Republic of Türkiye Aydın Adnan Menderes University, Graduate School of Natural and Applied Sciences, was accepted as a Master's Thesis by the jury below.

Date of Thesis Defence:: .../.../20...

Jury Member

APPROVAL:

Chair	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	
Member	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	
Member	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	

This thesis was approved by the jury above in accordance with the relevant articles of the Aydın Adnan Menderes University Graduate Education and Examination Regulations and was approved on the by from the Board of Directors of the Graduate School of Natural and Applied Sciences in the numbered decision.

.....

Institute Director

KABUL VE ONAY

T.C. Aydın Adnan Menderes Üniversitesi Fen Bilimleri Enstitüsü Bahçe Bitkileri Doktora Programı öğrencisi Büşra ÇALIŞKAN tarafından hazırlanan “KESTANELERDE DERİM SONRASI BAZI UYGULAMALARIN MEYVE KALİTESİ VE DEPOLAMA SÜRESİ ÜZERİNE ETKİLERİ” başlıklı tez, aşağıdaki jüri tarafından Doktora Tezi olarak kabul edilmiştir.

Tez Savunma Tarihi: .../.../20...

Jüri Üyeleri

ONAY:

Başkan	: (Unvan, Adı SOYADI) (Üniversite) .....	... (imza) ...
Üye	: (Unvan, Adı SOYADI) (Üniversite) .....	... (imza) ...
Üye	: (Unvan, Adı SOYADI) (Üniversite) .....	... (imza) ...
Üye	: (Unvan, Adı SOYADI) (Üniversite) .....	... (imza) ...
Üye	: (Unvan, Adı SOYADI) (Üniversite) .....	... (imza) ...

Bu tez Aydın Adnan Menderes Üniversitesi Lisansüstü Eğitim-Öğretim ve Sınav Yönetmeliğinin ilgili maddeleri uyarınca yukarıdaki jüri tarafından uygun görülmüş ve Fen Bilimleri Enstitüsünün tarih ve sayılı oturumunda alınan numaralı Yönetim Kurulu kararıyla kabul edilmiştir.

.....

Enstitü Müdürü

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Date of Thesis Defence:: .../.../20...

Jury Member

APPROVAL:

Chair	: (Title, Name SURNAME) (signature) ...
	..... (University)	
Member	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	
Member	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	
Member	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	
Member	: (Title, Name SURNAME) .....	... (signature) ...
	..... (University)	

This thesis was approved by the jury above in accordance with the relevant articles of the Aydın Adnan Menderes University Graduate Education and Examination Regulations and was approved on the by from the Board of Directors of the Graduate School of Natural and Applied Sciences in the numbered decision.

.....

Institute Director

KABUL VE ONAY

T.C. Aydın Adnan Menderes Üniversitesi Fen Bilimleri Enstitüsü Disiplinlerarası İş Sağlığı ve Güvenliği (İ.Ö) Tezsiz Yüksek Lisans Programı öğrencisi Tufan TÜRKÖZ tarafından hazırlanan “İnşaat Sektöründe İş Güvenliği” başlıklı proje, Dönem Projesi olarak kabul edilmiştir.

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.....

Danışman

ACCEPTANCE AND APPROVAL

The project entitled "Occupational Safety in the Construction Sector" prepared by Tufan TÜRKÖZ, a student of the Interdisciplinary Occupational Health and Safety (EP) Non-Thesis Master Program at Republic of Türkiye Aydın Adnan Menderes University Institute of Natural and Applied Sciences, was accepted as a Term Project.

.../.../20...

.....

Supervisor

Appendix 4.1. Sample Dedication Page (Turkish)

Bu tezdeki çalışmalarını, ortaya koyduđu Bulanık Mantık teorisi ve ilham veren çalışmalarından ötürü bilim insanı Lotfi A. Zadeh'a ithaf ederim.

Dedicated to the scientist Lotfi A. Zadeh for his theory of Fuzzy Logic and his inspiring work.

BİLİMSEL ETİK BEYANI

“.....
.....” başlıklı Yüksek Lisans/Doktora tezindeki bütün bilgileri etik davranış ve akademik kurallar çerçevesinde elde ettiğimi, tez yazım kurallarına uygun olarak hazırlanan bu çalışmada, bana ait olmayan her türlü ifade ve bilginin kaynağına eksiksiz atıf yaptığımı bildiririm. İfade ettiklerimin aksi ortaya çıktığında ise her türlü yasal sonucu kabul ettiğimi beyan ederim.

Bu tez, aşağıda referans bilgileri bulunan ve başlıca veya ortak yazarı bulunduğum yayından/yayınlarından üretilmiştir.

Günel, K. ve Gör, İ. (2022). Solving Dirichlet boundary problems for ODEs via swarm intelligence. *Mathematical Sciences*, 16, 325–341. <https://doi.org/10.1007/s40096-021-00424-2>

Günel, K., Gör, İ. ve Tekeli, K. (2020). ICA-RD: The Regional Domination Policy for Imperialist Competitive Algorithm from Imperialism to Internationalism. *Arabian Journal for Science and Engineering*, 45, 10529–10589. <https://doi.org/10.1007/s13369-020-04787-x>

.....
Öğrencinin Adı SOYADI

... / ... / ...

BİLİMSEL ETİK BEYANI

“.....” başlıklı Yüksek Lisans/Doktora tezindeki bütün bilgileri etik davranış ve akademik kurallar çerçevesinde elde ettiğimi, tez yazım kurallarına uygun olarak hazırlanan bu çalışmada, bana ait olmayan her türlü ifade ve bilginin kaynağına eksiksiz atıf yaptığımı bildiririm. İfade ettiklerimin aksi ortaya çıktığında ise her türlü yasal sonucu kabul ettiğimi beyan ederim.

.....
Öğrencinin Adı SOYADI

... / ... / ...

STATEMENT OF SCIENTIFIC ETHICS

I hereby declare that I composed all the information in my Master's/Doctoral thesis entitled “.....” within the framework of ethical behavior and academic rules, and that due references were provided and for all kinds of statements and information that do not belong to me in this study in accordance with the guide for writing the thesis. I declare that I accept all kinds of legal consequences in case of any contrary statement of what I have stated is revealed.

This thesis is derived from the publication(s) for which I am the lead or co-author and whose citation information is given below.

Günel, K. ve Gör, İ. (2022). Solving Dirichlet boundary problems for ODEs via swarm intelligence. *Mathematical Sciences*, 16, 325–341. <https://doi.org/10.1007/s40096-021-00424-2>

Günel, K., Gör, İ. ve Tekeli, K. (2020). ICA-RD: The Regional Domination Policy for Imperialist Competitive Algorithm from Imperialism to Internationalism. *Arabian Journal for Science and Engineering*, 45, 10529–10589. <https://doi.org/10.1007/s13369-020-04787-x>

Student Name SURNAME

... / ... /

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.....

Student Name SURNAME

... / ... /

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INDEX OF SYMBOLS

A°	The interior of set A
\tilde{A}	The set formed by the accumulation points of set A
\bar{A}	The closure of set A
A^*	The Kleene closure of set A
\mathbb{C}	Complex numbers
Σ	Input alphabet
Σ^*	The Kleene closure of Σ alphabet
ε	Euler constant
\mathcal{F}	Fourier transform
H	Hessian matrix
\mathfrak{H}	Hilbert space
\mathcal{L}	Laplace transform
\mathcal{L}^{-1}	Inverse Laplace transform
\mathbb{N}	Natural numbers
\mathbb{Q}	Ratioanl numbers
\mathbb{R}	Real numbers
x	Position vector
\vec{v}	Velocity vector
\mathbb{Z}	Integers
■	QED

INDEX OF ABBREVIATIONS

- AST** : Aspartate Amino Transferase
- BPA** : Baird Parker Agar
- CAS** : Chemical Abstracts Service
- DNA** : DeoxyriboNucleic Acid
- EDTA** : Ethylenediaminetetraacidic Acid
- GSH** : Glutathione
- LPO** : Lipid PerOxidation
- MLP** : Multi-Layer Perceptron
- NO** : Nitric Oxide
- NSAID**: Non Steroidal Anti Inflammatory Drug
- PGE2** : Prostaglandin E2
- ROS** : Reactive Oxygen Species
- SCC** : Somatic Cell Count
- SVM** : Support Vector Machine
- TSST** : Toxic Shock Syndrome Toxin
- ZB** : Zetabyte

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ÖZET

TLBO YAKLAŞIMI İLE BAŞLANGIÇ VE SINIR DEĞER PROBLEMLERİNİN ÇÖZÜMLERİNİN ELDE EDİLMESİ

**Aksoy Y. Aydın Adnan Menderes Üniversitesi, Fen Bilimleri Enstitüsü, Matematik
Anabilim Dalı, Yüksek Lisans Tezi, Danışman: Doç. Dr. Korhan Günel, Aydın,
2023.**

Bu çalışmada amacımız, doğrusal veya doğrusal olmayan adi diferansiyel denklemlerin başlangıç değer ve Dirichlet sınır değer koşulları altında Yapay Sinir Ağı (YSA) çözümlerini elde etmektir. Oluşturulan YSA'nın eğitimi için türev içermeyen optimizasyon yöntemlerinin kullanılması hedeflenmiştir. Çalışmada, öğretme-öğrenme sürecinden ilham alınarak tasarlanan sezgi-üstü bir optimizasyon yaklaşımı olan Öğretme-Öğrenme Esaslı Optimizasyon (TLBO) tekniği kullanılmıştır. TLBO popülasyon tabanlı sürü zekası yaklaşımını temel alan bir yöntemdir. Tez boyunca ve uyarlanabilir parametre değerlerinin TLBO yaklaşımını nasıl etkilediği ve bu yolla elde edilen TLBO varyantlarının adi diferansiyel denklemlerin nümerik çözümlerini bulmada ne kadar etkin olduğu araştırılmıştır.

Araştırmada önerilen ve TLBO yöntemi ile eğitilen yapay sinir ağı modellerinin hem başlangıç değer problemlerinin hem de Dirichlet Sınır Değer Problemlerinin çözümü için elverişli bir yöntem olduğu görülmüştür. Tezde altın standart olarak belirlenen Parçacık Sürü Optimizasyonu (PSO) ile yapılan karşılaştırmalar göstermektedir ki, TLBO yaklaşımlarının istenilen hata payıyla çözüme yakınsaması yeterli görülmemesine rağmen sinir ağı modelinin eğitim sürelerini önemli ölçüde kısalttığı gözlenmiştir. Bu çalışmada diferansiyel denklemlerin nümerik çözümlerini tahminleyebilecek yapay sinir ağları modellerinin geliştirilebileceği sonucuna ulaşılmıştır.

Anahtar Kelimeler: Global optimizasyon, Yapay sinir ağları, Öğretme-Öğrenme Esaslı Optimizasyon, Dirichlet Sınır Değer Problemi

ABSTRACT

OBTAINING THE SOLUTIONS OF INITIAL AND BOUNDARY VALUE PROBLEMS WITH TLBO APPROACH

Aksoy Y. Aydın Adnan Menderes University, Graduate School of Natural and Applied Sciences, Department of Mathematics, Master Thesis, Supervisor: Assoc. Prof. Dr. Korhan Günel, Aydın, 2023.

In this study, our goal is to obtain Artificial Neural Network (ANN) solutions of linear or nonlinear ordinary differential equations under initial value and Dirichlet boundary conditions. It is aimed to use derivative-free optimisation methods for the training of the ANN. This study uses the Teaching-Learning Based Algorithm (TLBO), a meta-heuristic optimisation approach inspired by the teaching-learning process. TLBO is a population-based swarm intelligence approach. Throughout the thesis, it is investigated how the adaptive parameter values affect the TLBO approach and how effective the TLBO variants obtained in this way are in finding numerical solutions of ordinary differential equations.

The artificial neural network models proposed in the research and trained by the TLBO method have been found to be a suitable method for the solution of both initial value problems and Dirichlet boundary value problems. Comparisons with Particle Swarm Optimisation (PSO), which is set as the gold standard in this thesis, show that although TLBO approaches do not converge to the solution with the desired rate of error, they significantly shorten the training time of the neural network model.

In this study, it is concluded that artificial neural network models that can predict numerical solutions of differential equations can be developed.

Keywords: Global optimization, Neural networks, Teaching-Learning based optimization, Dirichlet Boundary Value Problem

ÖZET

AYDIN İLİNDE SATIŞ TEZGAHLARINDA TÜKETİME SUNULAN GIDALARDA BİYOFİLM OLUŞTURAN BAKTERİLERİN ARAŞTIRILMASI

Onur M. Aydın Adnan Menderes Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji Anabilim Dalı, Yüksek Lisans Tezi, Danışman: Doç. Dr. Esin Poyrazoğlu, Aydın 2021.

Amaç: Bu araştırma Aydın ilinde açıkta satılan çeşitli gıdalardan ve satış tezgahlarından alınan örneklerde biyofilm oluşturan bakterileri araştırmak amacı ile yapılmıştır.

Materyal ve Yöntem: Araştırma, 2018 yılı Ekim ayında Aydın ilinde açıkta satışı yapılan peynir, zeytin, tavuk, simit, tatlı, çiğ köfte, balık, midye, tost, et- tavuk döner satış tezgahları, gıda yüzeyleri ile gıdaya temas eden metal ve cam yüzeylerden alınan örnekler ile gerçekleştirilmiştir. İzole edilen bakteriler morfolojik, kültürel ve moleküler yöntemler ile tanılanmıştır. Bakterilerin biyofilm oluşumlarını belirlemek için kalitatif ve kantitatif analizler kullanılmıştır.

Bulgular: Araştırmada toplam 15 farklı cinsten 67 bakteri türü tanılanmıştır. Tanılanan bakteri türleri arasından; Enterococcus faecalis strain 2623, Bacillus cereus strain PJA1.5, Citrobacter freundii strain E2WCTM1, Staphylococcus epidermidis strain 3039, Bacillus cereus strain TBMAX51, Enterococcus gallinarum strain CCFM8325, Enterococcus faecium strain CAU1957, Pantoea conspicua strain B6, Enterococcus faecium strain 4525 bakterilerinin biyofilm oluşturma yeteneğine sahip oldukları saptanmıştır.

Sonuç: Bu çalışmada açıkta satılan çeşitli gıdaların ve satış tezgahlarının biyofilm oluşturan bakterilerin gelişimine olanak sağladığı sonucuna ulaşılmıştır.

Anahtar kelimeler: Biyofilm, Gıda, Gıda Tezgahları, Bakteri, Kalitatif ve Kantitatif Analiz

ABSTRACT

INVESTIGATION OF BIOFILM-FORMING BACTERIA IN FOOD SUPPLIED FOR CONSUMPTION ON SALES STALLS IN AYDIN PROVINCE

Onur M. Aydın Adnan Menderes University, Graduate School of Natural and Applied Sciences, Department of Biology, Master Thesis, Supervisor: Assoc. Prof. Dr. Esin Poyrazoğlu, Aydın, 2023.

Objective: This research was carried out in order to investigate the bacteria forming biofilms in samples taken from various foods and sales stalls in Aydın province.

Material and Methods: The research was carried out with samples taken from cheese, olives, chicken, bagels, desserts, raw meatballs, fish, mussels, toast, meat-chicken doner sales stalls, food surfaces and metal and glass surfaces that are in contact with food, which are sold in open in Aydın in October 2018.

Results: A total of 67 bacterial species from 15 different breeds were identified in the study. *Enterococcus faecalis* strain 2623, *Bacillus cereus* strain PJA1.5, *Citrobacter freundii* strain E2WCTM1, *Staphylococcus epidermidis* strain 3039, *Bacillus cereus* strain TBMAX51, *Enterococcus gallinarum* strain CCFM8325, *Enterococcus faecium* strain CAU1957, *Pantoea conspicua* strain B6, *Enterococcus faecium* strain 4525 bacteria among the identified bacteria species were found to have the ability to form biofilms.

Conclusion: It was understood in this study that various foods sold in the open and sales stalls allow the growth of bacteria forming biofilms.

Keywords: Biofilm, Food, Food Stalls, Bacteria, Qualitative and Quantitative Analysis.

GENERAL INFORMATION

When citing sources in the text, you have two options: you can either use a parenthetical citation or a narrative citation. If you choose to use a parenthetical citation, you will include the author's name and the date of publication in parentheses at the end of the sentence. Here's an example of a properly formatted parenthetical citation:

Falsely balanced news coverage can distort the public's perception of expert consensus on an issue (Koehler, 2016).

In narrative quotations, the citation information is included in the text as part of the sentence and the year following the author's name is written in parentheses as in the example given below.

Koehler (2016) pointed out the dangers of misbalanced news coverage.

If the citation contains more than one source, a semicolon (;) should be placed between the sources to be cited, as in the example given below.

Play therapists can experience many symptoms of impaired wellness, including emotional exhaustion or reduced ability to empathize with others (Elwood et al., 2011; Figley, 2002), disruption in personal relationships (Elwood et al., 2011; Robinson-Keilig, 2014), decreased satisfaction with work (Elwood et al., 2011), avoidance of particular situations (Figley, 2002; O'Halloran & Linton, 2000), and feelings or thoughts of helplessness (Elwood et al., 2011; Figley, 2002; O'Halloran & Linton, 2000).

A citation can be used to cover more than one sentence, as shown in the example below. In this case, the context of the first sentence should be written to support the others. If the reader understands that the citation is a whole, there is no need to cite the source again. However, if the quotation continues in a new paragraph, the source must be cited again.

Velez et al. (2018) found that for women of color, sexism and racism in the workplace were associated with poor work and mental health outcomes, including job-related burnout, turnover intentions, and psychological distress. However, self-esteem, person–organization fit, and perceived

organizational support mediated these effects. Additionally, stronger womanist attitudes—which acknowledge the unique challenges faced by women of color in a sexist and racist society—weakened the association of workplace discrimination with psychological distress. These findings underscore the importance of considering multiple forms of workplace discrimination in clinical practice and research with women of color, along with efforts to challenge and reduce such discrimination.

If the year of the publication is missing, replace the year with (n.d).

In theses written in English, “ve” should be used instead of “and” when referring to a source in Turkish.

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If the volume, issue, page number or doi number of the publication listed in the bibliography is missing, these data are left blank.

If the number of authors is more than 21, the general spelling of the author names should be as follows.

Author, A. A., Author, B. B., Author, C. C., Author, D. D., Author, E. E., Author, F. F., Author, G. G., Author, H. H., Author, I. I., Author, J. J., Author, K. K., Author, L. L., Author, M. M., Author, N. N., Author, O. O., Author, P. P., Author, Q. Q., Author, R. R., Author, S. S., ... Author, Z. Z. (Yıl). Makale adı. Dergi Adı, Cilt(Sayı), sayfa aralığı. Doi

If the author name of the publication is unknown, write "Anonymous" instead of the author name. However, "Anonymous" is not written instead of the author name in the publication information of legal authors. If a group/legal entity (such as associations, companies, government agencies and other working groups) is mentioned as the author, the name of this group should be given in a very clear and understandable way in the reference in the text. If the name of the group is long, if the abbreviation is clear to everyone, or if there is already a known abbreviation for the name, both the clear and abbreviated form can be used in the first use, and only the abbreviation can be used in

subsequent uses. If the group name is short, or if the abbreviation is not universally understood, the full name should be used in all references.

Writing styles according to publication types should be as in the examples given below. For the types of publications not included in this guidelines, the writing formats on <https://apastyle.apa.org/style-grammar-guidelines/references/examples> are taken into consideration.

REFERENCES FOR BOOKS

- **Full text book**

Jackson, L. M. (2019). *The psychology of prejudice: From attitudes to social action* (2nd ed.). American Psychological Association. <https://doi.org/10.1037/0000168-000>

- **Edited book**

Torino, G. C., Rivera, D. P., Capodilupo, C. M., Nadal, K. L. Ve Sue, D. W. (Eds.). (2019). *Microaggression theory: Influence and implications*. John Wiley & Sons. <https://doi.org/10.1002/9781119466642>

- **Book edited and republished by the editor**

Watson, J. B. ve Rayner, R. (2013). *Conditioned emotional reactions: The case of Little Albert* (D. Webb, Ed.). CreateSpace Independent Publishing Platform. (Original work published 1920)

- **Book republished with a foreword by another author**

Kübler-Ross, E. (with Byock, I.). (2014). *On death & dying: What the dying have to teach doctors, nurses, clergy & their own families* (50th anniversary ed.). Scribner. (Original work published 1969)

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Harris, K. R., Graham, S. ve Urdan T. (Eds.). (2012). *APA educational psychology handbook* (Vols. 1–3). American Psychological Association.

- **Course Package Materials**

If the author's name is known:

Elders, M. (2019). Neighborhood watch: Social media in the community. In M. Elders (Ed.), POL 241: Politics and activism in the 21st century (pp. 34–41). American University.

If the author's name is unknown:

Diagram of the tibia–basitarsis joint in *Apis mellifera*. (2015). In B. Haave (Ed.), NEU 451: Movement and perception (pp. 44–45). St. Ambrose University.

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- **Paper with single author**

Pinus, A.G. (2021). Abstract Relations Between Functional Clones. *Algebra and Logic*, 60(4), 279-283. <https://doi.org/10.1007/s10469-021-09652-w>

Stolk, C.C. (2017). An improved sweeping domain decomposition preconditioner for the Helmholtz equation. *Advances in Computational Mathematics*, 43, 45–76 <https://doi.org/10.1007/s10444-016-9475-y>

- **Paper with two authors**

Walk, M. ve Papp, G. (1991). Self-consistent electron state calculations on bond-centered impurities in silicon. *Acta Physica Hungarica*, 70, 333–339. <https://doi.org/10.1007/BF03054146>

- **Paper with three authors**

Yılmaz, B., Köse, E. ve Korkut, Ş. (2008). Hacettepe Üniversitesi ve Bilkent Üniversitesi öğrencilerinin okuma alışkanlıkları üzerine bir araştırma. *Türk Kütüphaneciliği*, 23, 22-51. Erişim adresi: <http://www.tk.org.tr/>

- **Paper with 21 or more authors**

Wiskunde, B., Arslan, M., Fischer, P., Nowak, L., Van den Berg, O., Coetzee, L., Juárez, U., Riyaziyyat, E., Wang, C., Zhang, I., Li, P., Yang, R., Kumar, B., Xu, A., Martinez, R., McIntosh, V., Ibáñez, L. M., Mäkinen, G., Virtanen, E., . . . Kovács, A. (2019). Indie pop rocks mathematics: Twenty One Pilots, Nicolas Bourbaki, and the empty set. *Journal of Improbable Mathematics*, 27(1), 1935–1968. <https://doi.org/10.0000/3mp7y-537>

- **Paper in early view**

Nematollahi, M., Ghaffari, A. ve Mirzaei, A. (2023). *Task offloading in Internet of Things based on the improved multi-objective aquila optimizer*. Signal, Image and Video Processing. <https://doi.org/10.1007/s11760-023-02761-2>

- **Articles published in newspapers**

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- **Conference proceedings published as journal papers**

Duckworth, A. L., Quirk, A., Gallop, R., Hoyle, R. H., Kelly, D. R. ve Matthews, M. D. (2019). Cognitive and noncognitive predictors of success. *Proceedings of the National Academy of Sciences, USA*, 116(47), 23499-23504. <https://doi.org/10.1073/pnas.1910510116>

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Bedenel, A.-L., Jourdan, L. ve Biernacki, C. (2019). Probability estimation by an adapted genetic algorithm in web insurance. In R. Battiti, M. Brunato, I. Kotsireas ve P. Pardalos (Eds.), *Lecture notes in computer science: Vol. 11353. Learning and intelligent optimization* (pp. 225–240). Springer. https://doi.org/10.1007/978-3-030-05348-2_21

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- **If only the institution name is specified:**

National Cancer Institute. (2019). *Taking time: Support for people with cancer* (NIH Publication No. 18-2059). U.S. Department of Health and Human Services, National Institutes of Health. <https://www.cancer.gov/publications/patient-education/takingtime.pdf>

- **If author names are specified:**

Stuster, J., Adolf, J., Byrne, V. ve Greene, M. (2018). *Human exploration of Mars: Preliminary lists of crew tasks* (Report No. NASA/CR-2018-220043). National Aeronautics and Space Administration. <https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20190001401.pdf>

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Merriam-Webster. (n.d.). Semantics. In *Merriam-Webster.com dictionary*. Retrieved January 4, 2020, from <https://www.merriam-webster.com/dictionary/semantics>

- **Published dictionary term**

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CURRICULUM VITAE

Surname, Name :

Foreign Languages :

E-mail :

Education

Degree	Institute	Graduation Date (Year)
PhD	xxx	
MSc	xxx	
Bachelor	xxx	

SCHOLARSHIPS AND AWARDS:

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WORK EXPERIENCE

Year	Place/Institution	Title
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2012-2018	xxx	xxx

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