Faculty of Engineering

Thesis Guidelines: Styles and Formats for Postgraduate Studies
Programme at Universiti Malaysia Sarawak

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2020
Mahmud Arif

A thesis submitted

In fulfillment of the requirements for the degree of Doctor of Philosophy

(Antenna and Propagation)

Faculty of Engineering
UNIVERSITI MALAYSIA SARAWAK
2020
DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Malaysia Sarawak. Except where due acknowledgements have been made, the work is that of the author alone. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

..............................

Signature

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Matric No.: 15010233

Faculty of Engineering
Universiti Malaysia Sarawak
Date:
ACKNOWLEDGEMENT

I would like to take this opportunity to those who have contributed directly or indirectly to this guidebook.

My sincere gratitude to the Centre for Graduate Studies, for the advice and support given during my period of study in Universiti Malaysia Sarawak.

Finally, I would like to thank the management of the Universiti Malaysia Sarawak for making it possible for me to complete my study here in Sarawak. Thank you all.
ABSTRACT

The abstract is a summary of the thesis, which consists of a brief introduction, problem statement, investigation methods, results and the general conclusion. The abstract should be informative and clear as reference to others. It should be written in a single paragraph and the maximum page number is 2 pages. Font type is Times New Roman and the font size is 12. Line spacing is double-spacing with a maximum of two-page long. Keywords of up to 5 words should be provided. For a thesis written in English, a translated version of the abstract in Malay should be provided and vice versa. The translated version of the abstract should have the thesis title.

Keywords: Summary, format, font size, abstract, keywords
**Garispanduan Tesis: Gaya dan Format untuk Program Pengajian Pascasiswa**

**ABSTRAK**


*Kata kunci: Kesimpulan, format, saiz fon, abstrak, kata kunci*
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<td>Abbreviation</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------</td>
<td></td>
</tr>
<tr>
<td>CGS</td>
<td>Centre for Graduate Studies</td>
<td></td>
</tr>
<tr>
<td>UNIMAS</td>
<td>Universiti Malaysia Sarawak</td>
<td></td>
</tr>
</tbody>
</table>
CHAPTER 1

INTRODUCTION

1.1 Study Background

The objective of the template you are currently using is to provide a tool to prepare the largest document you are ever likely to have to manage. The template is an experiment and a work in progress. We hope you will be able to download this document, cut and paste your own content into the template, and then use the format paintbrush for the text, headings and sub-headings, table headings, table format, figure headings etc. The real goal is to lower the overall stress of producing something that meets the various demands of the university and academic communities.

A thesis/dissertation is a form of expository writing. As a piece of intellectual work, it seeks to document the student’s exploration of a question significant to a particular discipline or set of disciplines in a way that is organized and discipline-appropriate. Every thesis should begin with Chapter 1 entitled Introduction. The Introduction typically includes the background to the work, an introduction to the overarching themes and concepts, and goals of the dissertation. The Introduction also provides the reader with a description of the structure of the document, by describing the sequence of the chapters, and possibly a brief description of the intention of each.

1.2 Problem Statement

There are many formats available for writing final thesis. The formats have been introduced to assist postgraduate students in preparing their thesis. However, the formats are unique and could not be used for other universities. Therefore, a standard format for every
Universiti Malaysia Sarawak (UNIMAS) student to follow will enable all postgraduate students to produce their thesis according to the format set by the university.

1.3 Objectives

The guidebook aims to assist postgraduate research students in writing their final thesis. This can be achieved through the following set of objectives:

i. To identify important components of thesis

ii. To formulate a standard format for thesis writing

iii. To propose a guidebook for thesis writing

1.4 Chapter Summary

This chapter has provided the general introduction about this guidebook which serves as reference to all postgraduate students at UNIMAS. All students are required to use this guidebook as their reference.
CHAPTER 2

FORMAT OF THE THESIS

2.1 Overview

Format of the thesis will provide information on how the thesis should be written. It consists of Language and Units, Margin, Typing, Pagination, Paper and Thesis Structure. These will be explained further in the following subsections.

2.2 Language and Units

The language of the thesis should be as direct and simple, as the subject matter will allow. The thesis must be written: in either English or Bahasa Malaysia.

For thesis written in English, the language used must be fully British or American style, and not a mixture of both.

All units of measurement must be in the metric system.

2.3 Typing

Typing format must be fully adhered by all students. The font type and size must follow the given format and the final submitted must be produced in high quality printing.

2.3.1 Font

All students are to use Times New Roman (font size 12) only in their theses. In certain cases, the use of other font types may be considered upon approval by the Faculty Graduate Committee.
2.3.2 Spacing

The thesis should be typed on one side of the page. The text should be double-spaced throughout, including explanatory footnotes, long quotations, appendices, headings and subheadings. However, legends, captions or keys to tables, figures, or plates should be single-spaced.

2.3.3 Type Quality

Both copies of the thesis submitted for examination or binding must be printed using laser printer.

2.4 Margins

The top, bottom and left-hand page margins of all pages should be 3 cm wide, with the right-hand page margin should be 2.5 cm wide.

2.5 Pagination

Pagination should be given to all pages excluding the cover page and the title page. Pages should be numbered consecutively throughout the thesis, including pages of figures, tables and appendices.

i. Pagination begins with the first page of Chapter 1.

ii. Preliminary pages (i.e. those preceding Chapter 1) must carry page numbers in small Roman numerals (i, ii, iii, etc.).

iii. Page numbers should be centered at the bottom of the page and should be at least 20 mm from the edge of the page.

iv. Page numbers should appear by themselves and are not to be enclosed in parentheses, hyphens, etc.
v. Each appendix should be identified separately in alphabetical order.

vi. The pages of the appendices should also be typed according to the above pagination system.

2.6 Paper

White, good-quality **A4 size**, (8.27” x 11.69” or 21.0 cm x 29.7 cm) and weight of **80gm** should be used for all submitted bound copies of the thesis. Photographic illustrations should be colour-printed on good quality high-resolution paper. This paper should be acid free and “non-erasable”.

2.7 Inserting Tables

Number the tables by chapter; e.g. Table 1.1 and Table 1.2 to indicate the tables belong to Chapter 1. Whereas, Table 2.1 and Table 2.2 belong to Chapter 2 and so on. Title for the table should be placed above the table. Table 2.1 shows an example of a table and Table 2.2 shows an example of a long table (requires more than 1 page).

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Unit (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Length</td>
<td>5</td>
</tr>
<tr>
<td>2.</td>
<td>Width</td>
<td>4</td>
</tr>
</tbody>
</table>

**Table 2.1:** Example of a Table

<table>
<thead>
<tr>
<th>S/N</th>
<th>Model</th>
<th>Frequency</th>
<th>Antenna Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zenstar III</td>
<td>Single</td>
<td>Built In Antenna</td>
</tr>
<tr>
<td>2</td>
<td>HULUX GR-213U</td>
<td>Single</td>
<td>Built In Antenna</td>
</tr>
</tbody>
</table>

**Table 2.2:** Example of a Long Table
Table 2.2  continued

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>embedded Patch Antenna 25 X 25 X 4.0 Mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>SkyNavSKM55</td>
<td>Single</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>GPS Receiver, GNS 603</td>
<td>Single</td>
<td>Internal Antenna, Provision of External Antenna</td>
</tr>
<tr>
<td>5</td>
<td>Garmin GPS25-HVS</td>
<td>Single</td>
<td>External</td>
</tr>
<tr>
<td>6</td>
<td>GISTM Stations</td>
<td>Dual</td>
<td>External</td>
</tr>
</tbody>
</table>

2.8 Inserting Figures

Number the figures by chapter; e.g. Figure 1.1 and Figure 1.2 to indicate the tables belong to Chapter 1. Whereas, Figure 2.1 and Figure 2.2 belong to Chapter 2 and so on. Title for the figure should be placed at below the table. Figure 2.1 shows an example of a figure.

![Figure 2.1](image.jpg)

**Figure 2.1:** Example of a Figure
2.9 Inserting Equations

Number the equation by chapter, e.g. Equation 1.1 and Equation 1.2 to indicate the tables belong to Chapter 1. Whereas, Equation 2.1 and Equation 2.2 belong to Chapter 2 and so on. Example is given below:

\[ A = \pi r^2 \quad \text{Equation 2.1} \]

\[(1 + x)^n = 1 + \frac{nx}{1!} + \frac{n(n - 1)x^2}{2!} + \ldots \quad \text{Equation 2.2}\]

2.10 Bindings

Bindings of the thesis shall be the responsibility of the students. There are two (2) different types of bindings.

2.10.1 Bindings for Thesis Evaluation

Following acceptance and approval by the UNIMAS Graduate Studies Committee, the thesis should be ring bound in soft cover prior to examination by the internal and external examiners.

The front cover of the thesis shall be printed according to the colour of the Faculty/Institute together with the UNIMAS logo and name of the Faculty/Institute (Appendix A). Please refer to Appendix B for the colour of the Faculty/Institute.

2.10.2 Bindings of Thesis after Senate Approval

Thesis which has been accepted by the UNIMAS Senate must be submitted in hard bound. The student’s name, degree and year shall also be printed on the spine of the bound thesis.
Stripes according to the colour of the Faculty/Institute shall be printed on the back cover and spine to distinguish between a PhD (3 stripes) and Master (2 stripes). Please refer to Appendix C for example.

2.11 Chapter Summary

This chapter has summarized the format required for the thesis writing which must be followed by all graduate students.
CHAPTER 3

STRUCTURE OF THE THESIS

3.1 Overview

In this chapter, structure of the thesis is explained in details. Students are advised to read and produce the thesis according to the thesis outline and chapter outline.

3.2 Thesis Outline

Students should bear in mind that thesis examiners deplore overlong or verbose thesis, and the onus is on the student to provide a well-organized and well-written thesis. Table 3.1 shows the thesis outline.

Table 3.1: Thesis Outline

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Title Page</td>
</tr>
<tr>
<td>ii.</td>
<td>Declaration</td>
</tr>
<tr>
<td>iii.</td>
<td>Acknowledgement</td>
</tr>
<tr>
<td>iv.</td>
<td>Abstract</td>
</tr>
<tr>
<td>v.</td>
<td>Abstrak</td>
</tr>
<tr>
<td>vi.</td>
<td>Table of Contents</td>
</tr>
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<td>vii.</td>
<td>List of Tables</td>
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<td>List of Figures</td>
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<td>ix.</td>
<td>List of Abbreviations</td>
</tr>
<tr>
<td>x.</td>
<td>Chapter 1 – Chapter 5</td>
</tr>
<tr>
<td>xi.</td>
<td>References</td>
</tr>
<tr>
<td>xii.</td>
<td>Appendix (ces)</td>
</tr>
</tbody>
</table>
3.2.1 Title Page

The thesis title should be as concise as possible, giving an accurate description of the thesis. The standard format of the title must be in title case except for biological nomenclature.

3.2.2 Declaration

Student must declaration that work done is from his/her original work with acknowledgement given for information obtained from other sources. This is also to declare that the research work has never been declared for any other degree at UNIMAS or other institution. Follow the sample given in the Declaration page.

3.2.3 Acknowledgement

Most theses will include a brief statement of gratitude in recognition of special assistance (including financial) and guidance given by individuals, institutions or government bodies. Acknowledgement page should not exceed one (1) page.

3.2.4 Abstract

The abstract is a summary of the entire thesis. It should briefly outline the research problems addressed by the thesis, the findings, and the significance of the work in the context of the field of study.

Abstracts in both Bahasa Malaysia and English are mandatory. The English version must include the title in English for a thesis written in Bahasa Malaysia, and vice versa.

The abstract should not exceed two (2) typewritten double-spaced pages of text consistent with the font style and size used in the main body of the thesis. The font style of the translated abstract should be in Italics.
3.2.5 Abstrak

This is the Malay translation of the abstract. It should have the translated title of the thesis. Refer to the Abstrak page of this guidebook.

3.2.6 Table of Contents

The titles of sections, chapters and their principal subdivisions along with the page numbers on which they appear should be listed in the Table of Contents. Titles should be worded exactly as they appear in the text of the thesis. Theses with many subsections should use a hierarchical numbering system for headings and sub-headings (e.g. 3.0, 3.1, 3.2 etc.). Such numbering system combined with the judicious use of upper and lower case, indentations and italics should indicate clear relationships between the sections of the thesis.

3.2.7 List of Tables

This list consists of the exact titles (including numbering) of all tables and should be written in double-spacing format. Please refer to the List of Tables page. All tables should be numbered consecutively throughout the text based on the thesis chapter.

3.2.8 List of Figures

This list consists of the exact titles (including numbering) of all figures and should be written in double-spacing format. Please refer to the List of Figures page. All figures should be numbered consecutively throughout the text based on the thesis chapter.

3.2.9 List of Abbreviations

This list consists of the abbreviations used in the thesis and should be written in double-spacing format. Please refer to the List of Abbreviations page. The abbreviations should be arranged based on the alphabetical order.
3.2.10 References

Referencing should be done according to the format given in this guidebook. Please refer to Section 4.3 for details.

3.2.11 Appendix(es)

Appendix (es) is a supplementary material attached at the end of the thesis.

3.3 Chapter Outline

The main body of the thesis is usually arranged into consecutively numbered chapters or sections. The internal organization of the thesis is the responsibility of the student in consultation with his/her thesis supervisor(s). The organization will partly depend on the field of study, but the onus is on the student to provide a systematic and well-organized thesis. The thesis will often include the chapters as given in Table 3.2.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>Introduction</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>Literature Review</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>Materials and Methods</td>
</tr>
<tr>
<td>Chapter 4</td>
<td>Results and Discussion</td>
</tr>
<tr>
<td>Chapter 5</td>
<td>Conclusion and Recommendations</td>
</tr>
</tbody>
</table>

3.3.1 Introduction

The chapter provides general overview of the thesis and should end with a hypothesis (if applicable) and objectives of the study.
3.3.2 Literature Review

This should highlight past studies related to the subject of the thesis. Recent publications (last 5 years) should be discussed in this chapter.

3.3.3 Materials and Methods

All relevant experimental, descriptive, theoretical and analytical techniques used in the research should be outlined, such that the study could be repeated by another researcher. Reference of methods to other researchers should be made where appropriate.

3.3.4 Results and Discussion

This may be presented as a single chapter, divided into appropriate section, in two or more separate chapters where it includes the analysis and presentation of data. This chapter also provides a general discussion on the results of the study, stressing the significance and implications of the findings of the research project undertaken.

3.3.5 Conclusions and Recommendations

This chapter contains a brief summary of the entire work, including methods, results and major conclusions/recommendations arising from the work. The summary can be written in a single section or in separate numbered section. Recommendations for future work are optional.

3.4 Chapter Summary

The structure of the thesis has been explained in this chapter and should consist of the introduction, literature review, materials and method, results and discussion and finally the conclusions and recommendations.
CHAPTER 4

LITERATURE CITATION AND REFERENCING

4.1 Overview

Chapter 4 explains how literature citation and referencing should be written in the thesis. Proper citation and referencing must be used for any information and finding from other works cited or quoted in the thesis. UNIMAS follows the latest version of APA or Harvard for literature citation and referencing.

4.2 Citation in Text

Author’s name may be cited directly or indirectly in the text. There will also be a situation when no author’s name is available. The followings will explain how citation should be done.

4.2.1 Direct Citation of Author’s Name in Text

In the text, the year of publication appears within parentheses after the author’s surname if the latter forms part of a sentence. For example:

i. Abdul (1986) or

ii. Abdul and Abidin (1987) – where there are only two authors or,

iii. Abidin et al. (1990) – where there are more than two authors

iv. Abdul et al. (1990); Abidin et al. (1991)

If several papers by the same author(s) and from the same year are cited, the letters a, b, c, etc. should be put after the year of publication. For example:

i. Abdul and Abidin (2017a) and
ii. Abdul and Abidin (2017b)

Both the author’s surname and the year of publication appear within parentheses if the author’s surname does not form part of a sentence. For example:

i. (Abdul and Abidin, 2017b)

ii. (Johan & Eli, 2016).

In any particular sentence, if several publications are cited, the references should be cited in chronological order. For example:

i. Johan (2014) and Eli (2015) have both shown…

ii. Abdul et al. (2010) and Abidin (2017) have obtained…

However, if several publications of the same year are cited the references should be cited in alphabetical order, with single author taking precedence over joint authors. For example:

i. Abidin (2015), Abdul and Johan (2015) and Eli (2015) found that…

4.2.2 Indirect Citation of Author’s Name in Text

The author’s name and publication year should be placed at any relevant point in the sentence or at the end of the sentence in brackets if reference is made to any research finding of other work without mentioning the author in the text.

Example:

Open space result for measurement conducted in the mid-latitude region has shown minimum effect of ionosphere on the received satellite signal (Abidin et al., 2007).
4.2.3 No Authors

For any reference from which the author is not available, it should be cited as: (Anonymous, 2016).

Example:

Placing the GPS receiver directly facing the sky will improve the received signal strength. (Anonymous, 2014).

4.2.4 Corporate Authors

Reference made from any organization or bodies/agencies with no personal author should be written as: (MCMC, 2009).

Example:

Currently, MCMC (2012) is monitoring…

4.2.5 No Date

If the publication year is not available, the abbreviation n.d should be used.

Example:

Directly: Abidin (n.d.) has performed measurement… Indirectly: Previous findings (Abidin, n.d.) has justified…

4.2.6 Secondary Referencing

You may come across a summary of another author’s work in the source you are reading, which you would like to make reference to in your document. This is called secondary referencing.
Example:


4.2.7 Websites

For any material obtained from a website, the authorship of the website should be identified, either by author’s surname or organization’s name. URL or website address should not be written in the text. For example: Recent research on the ionospheric effect (Abba, 2015) has indicated…

4.3 Referencing

All references should follow the latest version of the APA or Harvard. The references should be double-spaced with Times New Roman using font size 12. The following referencing style must be followed:

4.3.1 Reference from Books

Author’s surname, Initials. (Year). Title of book, Edition., (only include this if not the first edition) Place of publication: (this must be a town or city, not a country) Publisher.

Examples:

Single author:

Two or more authors:


### 4.3.2 Chapters of Edited Books

Chapter author(s) surname(s), Initials. (Year). Chapter followed by In *Title of book* (Book editor(s) initials and surnames, edition), page number, Place of publication: Publisher.

Example:


### 4.3.3 Books Which Have Been Translated

Author. (Year). *Title of book*. Translated from (language). Place of publication: Publisher.

Example:

4.3.4 **E-books**


Example:


4.3.5 **Reference from Journals and Newspapers**

Author, Initials. (Year). Title of article. *Full title of journal, Volume number (Issue / Part number)*, Page numbers.

Example for journal article:


Example for newspaper:


4.3.6 **Reference from Conference Proceedings**

Author, Initials., Year. Full title of conference paper. In: followed by editor or name of organization, *Full title of conference*. Location, Date, Place of publication.
Example:


### 4.3.7 Standards

Corporate author. (Year). Identifying letters and numbers and full title of the standards. Place of publication: Publisher.

Example:


### 4.3.8 Patent

Inventor name, Initials., Assignee. (Year). Title. Place. Patent number (status, if an application).

Example:

4.3.9 Multiple Works from the Same Author in the Same Year

Example:


4.3.10 Anonymous (Authorless) Reference

Depending on the type of document, replace the authorship with Anonymous.

Example:


4.3.11 Publications of International Bodies/Agencies

Depending on the type of source, replace the author’s name with the organization name.

Example:


4.3.12 Websites

Authorship or Source. (Year). *Title of web document or web page*. [type of medium] (date of update if available) Available at: include website address or URL [Accessed date].
Bowman. R. (2009). *Superalloys: A Primer and History*. [online] Available at:
[Assessed on 8 November 2010]

4.4 Chapter Summary

This chapter has provided guideline on how the literature citation and referencing
should be written in the thesis. All postgraduate students are advised to consult the Centre
for Graduate Studies for further clarification.
CHAPTER 5

CONCLUSION AND RECOMMENDATIONS

5.1 Conclusion

This thesis guideline has been prepared as guidance to all graduate students at UNIMAS in the preparation of their thesis for evaluation and final endorsement by the university Senate.

5.2 Recommendations

The availability of a writing tool that can easily assist all postgraduate students in preparing their final thesis will significantly reduce the time required to write thesis. CGS will continuously make effort in improving the quality of the thesis produced by students.
REFERENCES


IEEE Transactions on Antennas and Propagation, 64(2), 757–760.


APPENDICES

Journal Publications


