To the Graduate Council:

I am submitting herewith a dissertation written by Student A. Name entitled "Analysis on some data using some technique." I have examined the final paper copy of this dissertation for form and content and recommend that it be accepted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, with a major in Computer Science.

_____
Jane P. Doe, Major Professor

We have read this dissertation
and recommend its acceptance:

_____
Member A. Davis

_____
Member B. Miller

_____
Member C. Smith

Accepted for the Council:

_____
Dixie L. Thompson
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        (Original signatures are on file with official student records.)

ANALYSIS ON SOME DATA USING SOME TECHNIQUE

A Dissertation Presented for the
Doctor of Philosophy
Degree
The University of Tennessee, Knoxville

Student A. Name
December 2017

DEDICATION

If the student wishes to dedicate the thesis/dissertation, the dedication statement is included on this page. If appropriate, the student may include a short quote or other text here. The student may choose to omit the heading "Dedication" on this page if the intent of the dedication itself is clear. This page is optional.

ACKNOWLEDGEMENTS

ABSTRACT

The content of the abstract is determined by the student and committee, the following information is appropriate: [1] a short statement concerning the area of investigation, [2] a brief discussion of methods and procedures used in gathering the data, [3] a condensed summary of the findings, and/or [4] conclusions reached in the study.

The abstract will be used by the University of Tennessee Libraries in cataloguing the thesis or dissertation. Therefore, the abstract must NOT exceed 350 words in length. Furthermore, if the abstract contains any special characters (those characters not found on typical English-language keyboards) the student must also write out the term or concept in plain English in square brackets immediately following the special character. For example: π [pi]. If you have questions about what qualifies as a special character, please check with the thesis/dissertation consultant.

PREFACE

A personal statement about the purpose and scope of the thesis/dissertation could be included in the preface. The tone of the preface, however, must be academic and appropriate to scholarly work. This page is optional.

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LIST OF ABBREVIATIONS

AAA	American Anthropology Association
APA	American Psychological Association
IEEE	Institute of Electrical and Electronics Engineers
AI	Artificial intelligence
CNN	Convolutional neural networks
SaaS	Software as a service
R&D	Research and development
UTK	University of Tennessee, Knoxville

LIST OF SYMBOLS

ϕ_p	Horizontal stress
β	Angle between the normal and horizontal planes
π	Pi
i	Imaginary unit
P_2	Universal parabolic constant
t_i	Time at step i
$\Delta\mu$	Change in energy

CHAPTER 1

INTRODUCTION

This is a very short guide to an unofficial thesis/dissertation template for the University of Tennessee. It is based on the 2017 thesis specifications but can be easily altered as the guidelines are changed. This template requires a basic knowledge of LaTeX and should cover the basic requirements in terms of required packages and functionality for the University of Tennessee. ==This is a note with custom color.== ==This is a note with default color.==
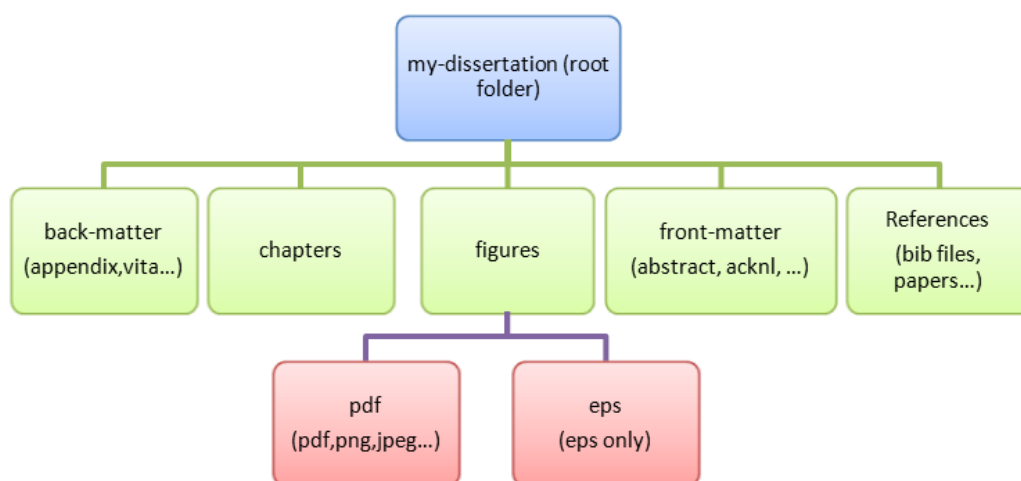
Figure 1.1: UT thesis template folder structure. The main LaTeX file and BibTeX file are in the top directory. All other files are placed in any of the four folders (back-matter, chapters, figures, front-matter).

The general structure of this template is based on the tree shown in Figure 1.1. The titles of the folders are self descriptive and should guide you to proper file placement. Note that this is only a suggested model that could be modified to fit your own organizational structure.

1.1 A Section multiple lines

This is a paragraph found in a section part.

1.1.1 A subsection

This is a paragraph found in a subsection part. For more information, check: http://en.wikibooks.org/wiki/LaTeX/Floats,_Figures_and_Captions
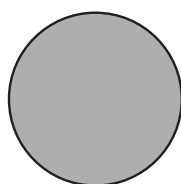
1.1.2 Another subsection

This is a paragraph found in another subsection part.

1.1.2.0 A subsubsection

This is a paragraph found in a subsubsection part.

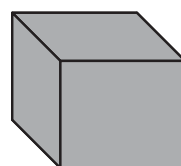## 1.2 Multipart figures

This is a paragraph found in another section part.

(a) Circle   (b) Rectangle   (c) Cube

Figure 1.2: Geometric shapes, each presented as a subfigure. (a) is a circle, (b) is a rectangle, and (c) is a cube.

For multipart figures (e.g., Figure 1.2b), you need to use the package "subcaption".

Table 1.1: A multirow table example.

col1	col2	col3
	cell2	cell3
Multiple rows	cell5	cell6
	cell8	cell9

Discussing some analysis results from Table 1.1. It all started at section 1.1 and never ended . . .

CHAPTER 2

EXPERIMENTS

This is a citation Anzt et al. (2016). This is a very short guide to an unofficial thesis/dissertation template for the University of Tennessee[1]. It is based on the 2017[2] thesis specifications but can be easily altered as the guidelines are changed. This template requires a basic knowledge of LaTeX and should cover the basic requirements in terms of required packages and functionality.
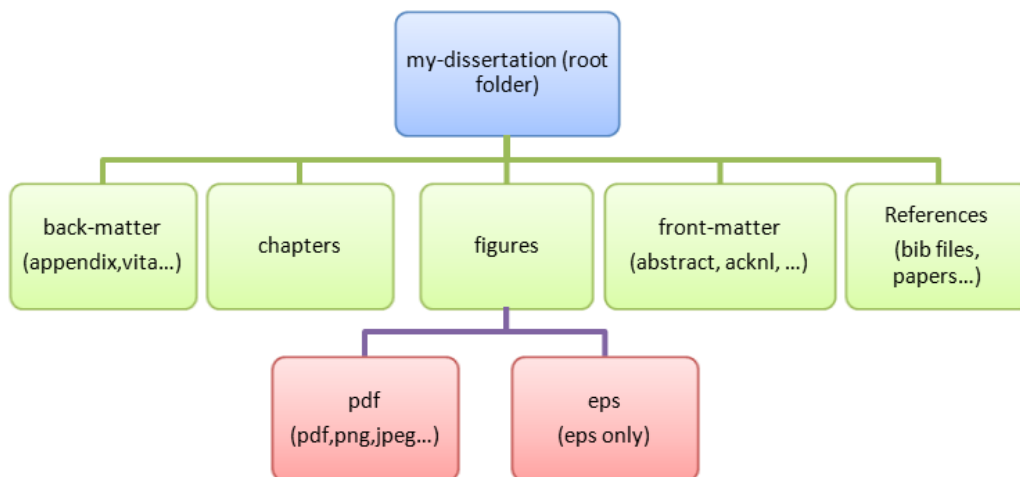

Figure 2.1: UT thesis template folder structure. The main LaTeX file and BibTeX file are in the top directory. All other files are placed in any of the four folders (back-matter, chapters, figures, front-matter).

Again, in Figure 2.1 is the folder structure.

$$die\ yield = wafer\ yield \times \frac{1}{\left(1 + \dfrac{defects\ per\ unit\ area \times die\ area}{N}\right)^N} \qquad (2.1)$$

Use the die yield model to obtain equation 2.1.

---

[1]UTK is a public university in Knoxville, TN
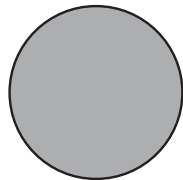[2]The 2017 template was based on a 2016 template

CHAPTER 3

RESULTS

This is more text, see Anzt et al. (2015).

Table 3.1: A multirow table example.

col1	col2	col3
	cell2	cell3
Multiple rows	cell5	cell6
	cell8	cell9

Discussing some analysis results from Table 3.1.

(a) Circle

(b) Rectangle

Figure 3.1: Geometric shapes, each presented as a subfigure. (a) is a circle and (b) is a rectangle

For multipart figures (e.g., Figure 3.1), you need to use the package "subcaption".

CHAPTER 4
CONCLUSIONS

This is the last chapter and we can reference previous chapters, for example, Chapter 1 provided the introduction.

LIST OF REFERENCES

Anzt, H., Kreutzer, M., Ponce, E., Peterson, G. D., Wellein, G., and Dongarra, J. (2016). Optimization and performance evaluation of the IDR iterative Krylov solver on GPUs. *International Journal of High Performance Computing Applications*.

Anzt, H., Ponce, E., Peterson, G. D., and Dongarra, J. (2015). GPU-accelerated co-design of induced dimension reduction: algorithmic fusion and kernel overlap. In *Proceedings of the 2nd International Workshop on Hardware-Software Co-Design for High Performance Computing (Co-HPC'15)*, number 5. ACM.

APPENDIX

APPENDIX A

Here is a math equation: $y = mx + b$
The above equation represents a line.

APPENDIX B

This is another appendix for testing format.

VITA

The vita should be written in narrative form, not resume or curriculum vitae form. It should contain appropriate academic and professional information about the author/student.

Because copies of the manuscript will be available to the public, personal information, such as the student's address or phone number, should not be included.