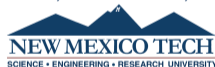


CGS Workshop Series

Completion & Thesis/Dissertation Formatting

Aly El-Osery

New Mexico Institute of Mining and Technology
Socorro, New Mexico, USA



Sept. 14, 2022

- Karen Chavez – *Graduate Coordinator/Admission & Student Success*
 - Phone: x5513
- Aly El-Osery – *Dean of Graduate Studies*

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You don't have to use Latex as long as you follow the required guidelines and your final version is formatted properly.

https://www.nmt.edu/gradstudies/docs/Thesis_Requirements.pdf

Chapter 1

My first chapter

Some text ...

1.1 My first section

Some text ...

1.1.1 My first subsection

Some text ...

It is hypothesized as shown in Eq. 1.1 that

$$y = \zeta^2 \tag{1.1}$$

where ζ is the amount of time you take to use LaTeX, and y is the level of enjoyment.

My hypothesis is proven in [1].

See Figure 1.1



Figure 1.1: NMT logo

Bibliography

- [1] M. El-Diasty and S. Pagiatakis. A Rigorous Temperature-Dependent Stochastic Modelling and Testing for MEMS-Based Inertial Sensor Errors. *Sensors*, 9:8473–8489, 2009.

```
\documentclass{report}

\title{My title}
\author{Joe NMT}

\begin{document}

\chapter{My first chapter}
Some text \ldots

\section{My first section}
Some text \ldots

\subsection{My first subsection}
Some text \ldots

\end{document}
```


“LaTeX is the de facto standard software to write scientific reports.” [according to many publishers, other universities]

- Preamble

```
\documentclass[optional]{report}

\usepackage{amssymb,amsmath,bm}
```

- Front matter

```
\title{My title}
\author{Joe NMT}

\begin{document}
```

- Main matter

```
\chapter{My first chapter}
Some text \ldots

\section{My first section}
Some text \ldots

\subsection{My first subsection}
Some text \ldots
```

- Main matter

```
% Example of how to insert an equation
\begin{equation}\label{eq:simple}   %eq:simple is just a name of my choice
  y=\zeta^2
\end{equation}

% Example of how to insert a figure
\begin{figure}[!htb] % try to place the figure here, top then try bottom
  \centering
  \includegraphics[width=0.5\textwidth]{myfigure} % use half of the text width
  \caption{This is my awesome figure}\label{fig:awesome}
\end{figure}
```

- End matter

```
\bibliographystyle{unsrt}
\bibliography{references}

\appendix
\chapter{My First Appendix}

\end{document}
```

```
See Figure~\ref{fig:logo}
\begin{figure}
  \centering
  % logo is the filename. No need for the extension
  \includegraphics[width=0.4\textwidth]{logo}
  \caption{NMT logo}\label{fig:logo}
\end{figure}
\end{figure}
```

It is hypothesized as shown in Eq. 1 that

$$y = \zeta^2 \quad (1)$$

where ζ is the amount of time you take to use Latex, and y is the level of enjoyment

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$$y = \zeta^2 \tag{1}$$

where ζ is the amount of time you take to use Latex, and y is the level of enjoyment

```

% The above lines are generated by the following code
It is hypothesized as shown in Eq.~\ref{eq:simple} that
\begin{equation}\label{eq:simple}
y=\zeta^2
\end{equation}
where  $\zeta$  is the amount of time you take to use Latex,
and  $y$  is the level of
enjoyment.

```

My hypothesis is proven in [1].

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```
% The above lines are generated by the following code
```

```
My hypothesis is proven in \cite{El-Diasty2009}.
```


My hypothesis is proven in [1].

```
% The above lines are generated by the following code
```

```
My hypothesis is proven in \cite{El-Diasty2009}.
```

```
%Bibliography information is entered in a .bib file.
```

```
%In the bibliography file enter fields
```

```
@ARTICLE{El-Diasty2009,  
  author = {M. El-Diasty and S. Pagiatakis},  
  title = {{A Rigorous Temperature-Dependent  
    Stochastic Modelling and Testing  
    for MEMS-Based Inertial Sensor Errors}},  
  journal = {Sensors},  
  year = {2009},  
  volume = {9},  
  pages = {8473--8489},  
  owner = {elosery},  
  timestamp = {2010.01.10}  
}
```

My hypothesis is proven in [1].

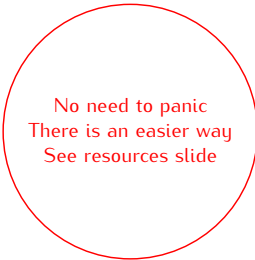
```
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  owner = {elosery},  
  timestamp = {2010.01.10}  
}
```



No need to panic
There is an easier way
See resources slide

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 - <https://www.texstudio.org/>
 - <https://www.texniccenter.org/>
- Bibliography management – <https://www.jabref.org/>
- Plain text to bibtex <https://anystyle.io/>
- Tables – <https://www.tablesgenerator.com/>
- Symbols <https://www.caam.rice.edu/heinken/latex/symbols.pdf>



M. El-Diasty and S. Pagiatakis.

A Rigorous Temperature-Dependent Stochastic Modelling and Testing for MEMS-Based Inertial Sensor Errors.

Sensors, 9:8473–8489, 2009.