

Thesis title

A THESIS

submitted by

STUDENT NAME

for the award of the degree

of

DOCTOR OF PHILOSOPHY

under the supervision of

GUIDE NAME



**DEPARTMENT OF ELECTRICAL ENGINEERING
INSTITUTE OF INFRASTRUCTURE TECHNOLOGY
RESEARCH AND MANAGEMENT.**

MONTH 2019

DEDICATION

TO MY BELOVED PARENTS

MY LOVELY WIFE AND LITTLE DAUGHTER

MY LITTLE SISTER

THESIS CERTIFICATE

This is to certify that the thesis titled **Title of thesis** , submitted by **student name**, to the Institute of Infrastructure Technology Research and Management, Ahmedabad, for the award of the degree of **Doctor of Philosophy**, is a bona fide record of the research work done by him under our supervision. The contents of this thesis, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.

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Place: Ahmedabad

Date: January 2009

ACKNOWLEDGEMENTS

ABSTRACT

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ABBREVIATIONS

LQR Linear Quadratic Regulator

NOTATION

r Radius, m

CHAPTER 1

INTRODUCTION

This document provides a simple template of how the provided `iitrammdiss.cls` \LaTeX class is to be used. Also provided are several useful tips to do various things that might be of use when you write your thesis.

Before reading any further please note that you are strongly advised against changing any of the formatting options used in the class provided in this directory, unless you are absolutely sure that it does not violate the IITM formatting guidelines. *Please do not change the margins or the spacing.* If you do change the formatting you are on your own (don't blame me if you need to reprint your entire thesis). In the case that you do change the formatting despite these warnings, the least I ask is that you do not redistribute your style files to your friends (or enemies).

It is also a good idea to take a quick look at the formatting guidelines. Your office or advisor should have a copy. If they don't, pester them, they really should have the formatting guidelines readily available somewhere.

To compile your sources run the following from the command line:

```
% latex thesis.tex
% bibtex thesis
% latex thesis.tex
% latex thesis.tex
```

Modify this suitably for your sources.

o generate PDF's with the links from the `hyperref` package use the following command:

```
% dvipdfm -o thesis.pdf thesis.dvi
```

1.1 Package Options

Use this thesis as a basic template to format your thesis. The `iitramdiss` class can be used by simply using something like this:

```
\documentclass[PhD]{iitramdiss}
```

To change the title page for different degrees just change the option from `PhD` to one of `MS`, `MTech` or `BTech`. The dual degree pages are not supported yet but should be quite easy to add. The title page formatting really depends on how large or small your thesis title is. Consequently it might require some hand tuning. Edit your version of `iitramdiss.cls` suitably to do this. I recommend that this be done once your title is final.

To write a synopsis simply use the `synopsis.tex` file as a simple template. The synopsis option turns this on and can be used as shown below.

```
\documentclass[PhD,synopsis]{iitramdiss}
```

Once again the title page may require some small amount of fine tuning. This is again easily done by editing the class file.

This sample file uses the `hyperref` package that makes all labels and references clickable in both the generated DVI and PDF files. These are very useful when reading the document online and do not affect the output when the files are printed.

1.2 Example Figures and tables

Fig. ?? shows a simple figure for illustration along with a long caption. The formatting of the caption text is automatically single spaced and indented. Table 1.1 shows a sample table with the caption placed correctly. The caption for this should always be placed before the table as shown in the example.

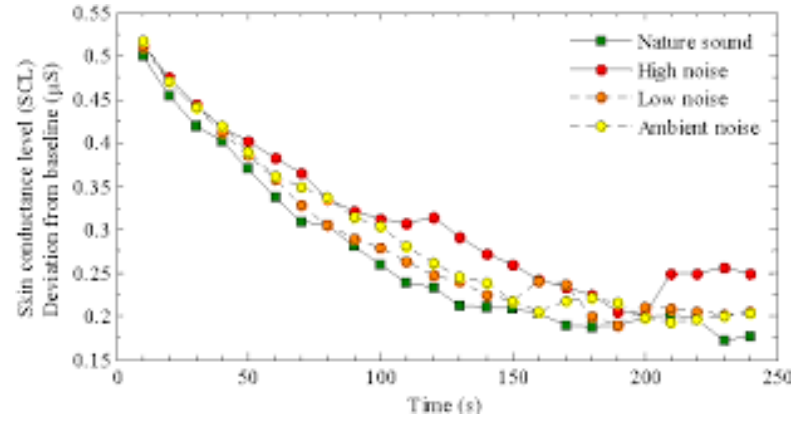


Figure 1.1

Table 1.1: A sample table with a table caption placed appropriately. This caption is also very long and is single-spaced. Also notice how the text is aligned.

x	x^2
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64

1.3 Other useful L^AT_EX packages

The following packages might be useful when writing your thesis.

- It is very useful to include line numbers in your document. That way, it is very easy for people to suggest corrections to your text. I recommend the use of the `lineno` package for this purpose. This is not a standard package but can be obtained on the internet. The directory containing this file should contain a `lineno` directory that includes the package along with documentation for it.
- The `listings` package should be available with your distribution of L^AT_EX. This package is very useful when one needs to list source code or pseudo-code.
- For special figure captions the `ccaption` package may be useful. This is specially useful if one has a figure that spans more than two pages and you need to use the same figure number.
- The notation page can be entered manually or automatically generated using the `nomencl` package.

More details on how to use these specific packages are available along with the documentation of the respective packages.

APPENDIX A

A SAMPLE APPENDIX

Just put in text as you would into any chapter with sections and whatnot. Thats the end of it.

LIST OF PAPERS BASED ON THESIS

LIST OF PAPERS BASED ON OTHER THESIS

- **Conference Proceeding**