

L^AT_EX Seminar Report Title

A project report submitted in partial fulfilment of the requirements for the degree of

**MASTER OF SCIENCE
IN
COMPUTER SCIENCE**



Submitted by

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Supervised by

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**DEPARTMENT OF COMPUTER SCIENCE
GAUHATI UNIVERSITY, ASSAM
November 29, 2023**

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CERTIFICATE

This is to certify that the dissertation entitled **L^AT_EX Seminar Report Title** submitted by **Author Name**, for partial fulfilment for the requirement of award of the degree of Master of Science in **COMPUTER SCIENCE**, Gauhati University is a work carried out by him under my supervision and guidance of **Your Supervisor's Name**.

Date: November 29, 2023
Place: Gauhati University

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CERTIFICATE

The project report entitled **L^AT_EX Seminar Report Title** submitted by **Author Name**, for partial fulfilment for the requirement of award of the degree of Master of Science in **COMPUTER SCIENCE**, Gauhati University has been examined.

Date: November 29, 2023
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CERTIFICATE

This is to certify that the project report entitled **L^AT_EX Seminar Report Title** submitted by **Author Name**, for partial fulfilment for the requirement of award of the degree of Master of Science in **COMPUTER SCIENCE**, Gauhati University is a work carried out by him under my supervision and guidance.

To the best of my knowledge, the work has not been submitted to any other institute for the award of any other degree or diploma.

Date: November 29, 2023
Place: Gauhati University

Your Supervisor's Name
Supervisor
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DECLARATION

I hereby declare that the seminar report entitled **L^AT_EX Seminar Report Title** has been completed by me and submitted in partial fulfilment for the requirement of award of the degree of **Master of Science in COMPUTER SCIENCE**, Gauhati University. I also declare that any or all contents incorporated in the report has not been submitted in any form for the award of any other degree of any other institute or university.

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Date: November 29, 2023

Author Name

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Listings

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Chapter 1

Introduction



Chapter 2

How to use the template

This is a practical guide into how to use this template, by explaining the role of the different folders and files.

If some practices seem like overkill for a 20 page proposal (splitting the content across different files), that is because it probably is, but we built it this way because this thesis template is structured identically. That means that you will be able to incorporate this document into your thesis seamlessly.

2.1 Folders

The main folder contains three folders detailed here:

- **Assets.** This folder should contain all the images that you will use in your thesis. It can contain subfolders, for example one for each chapter. To include an image from the main text, use something like `\includegraphics{subfolder/image.jpg}` without worrying about the `Images` path.
- **MainText.** This folder contains a series of `LATEX` files that form the main text: introduction, chapters, conclusion, appendices and published articles. The introduction and conclusion as they are now are not numbered, which creates a few difficulties with the headers of the thesis. Those are solved by including the commands `\unnumberedchapter{}` and `\numberedchapter` before including the files in `xxx_Thesis.tex`. If you want the introduction and conclusion to be numbered, re-write and treat them as regular chapters.
- **Preamble.** This folder contains a series of `LATEX` files with the pages that will appear before the main text. Please write (or copy and paste) your own text in those files and delete the dummy text when appropriate. The files are:
 - `abbreviations.tex` — List of abbreviations. If the list goes over one page, create another table.
 - `abstract.tex` — Abstract. Follow directions in the file.
 - `certificate.tex` — Acknowledgments. Follow directions in the file.
 - `declaration.tex` — Declaration of Original and Sole Authorship. Only modify the last item. This page needs to be signed once printed.
 - `glossary.tex` — Glossary (optional). If the list goes over one page, create another table.

- `physics_bibstyle.bst` — Bibliography style file modified by Jeremie Gillet in 2011 to suit his thesis. Might be suitable for physics. If you want to use another custom bibliography style, include the file in this folder.
- `Thesis_bibliography.bib` — BibTeX file containing your bibliography.
- `report_bib.bib` — BibTeX file containing your bibliography for reports.

2.2 `Dissertation.tex`

This is the main files, the only one that need to be compiled to build the document. Compile once with \LaTeX , once with BibTeX and finally twice with \LaTeX to get all the references right.

Let's go through each section and comment them briefly. [?] The last section will emphasize the differences between the two files.[?]

2.2.1 PACKAGES AND OTHER DOCUMENT CONFIGURATIONS

This section contains the minimum number of packages and definitions to compile the thesis. No line should be removed or modified.

2.2.2 ADD YOUR CUSTOM VALUES, COMMANDS AND PACKAGES

This section should not be modified directly. Instead, your packages and definitions should be included in `Preamble/mydefinitions.tex`.

2.2.3 TITLE PAGE

Creates the title page.

2.2.4 PREAMBLE PAGES

Structures the style (header) for the preamble pages and builds them. Do not modify.

2.2.5 LIST OF CONTENTS/FIGURES/TABLES

Creates the list of contents. Do not modify.

2.2.6 THESIS MAIN TEXT

Structures the style for the main text chapters and builds them.

2.2.7 BIBLIOGRAPHY

Builds the bibliography. The style of the bibliography can be defined in `Preamble/mydefinitions.tex`.

2.2.8 APPENDICES

Structures the style for the appendices and builds them. The appendices are numbered with letters but are structured like regular chapters.

2.2.9 Differences between a report version and final version

There are two main differences between `\documentclass[report]{dd_dissertation}` and `\documentclass[final]{dd_dissertation}`.

The difference is in the document style: page size, header and line spacing are different. This might create small issues, such as page breaking with large tables, images or captions, when compiling the same content.



Chapter 3

Figures, tables and images

3.1 Figures

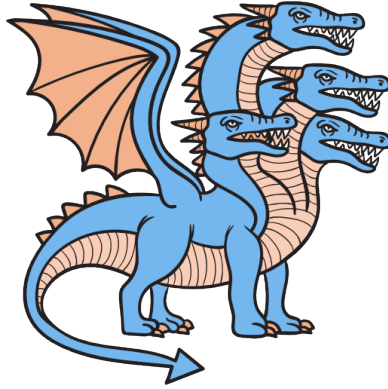
Refer to figure like this: Figure 3.1 or this (Fig. 3.1). If you want to include a list of figure, you can use a short version of the caption as shown in Figure 3.1.

3.2 Tables

Refer to tables this this: Table 3.1.



Figure 3.1: Short caption (if wanted). Full caption with all the details here.



This secret image won't be numbered and won't appear in the List of Figures because of the *

Table 3.1: Short heading for the List of Tables.

Parameter	Value
Δ	0, 150
α	85
ϵ	6
κ	6.8
γ	0.2

Full caption with all the details here.

Parameter	Value
Δ	0, 1500
α	850
ϵ	60
κ	68
γ	2

This secret table won't be numbered and won't appear in the List of Figures because of the *

Chapter 4

Codes, timeline

4.1 Codes

$x := -2 + y$

Listing 4.1: My Captions

```
int main() {  
    //compound statement #1  
    int a = 1;  
    {  
        //compound statement #2  
        a = 2;  
        if (a) {  
            //compound statement #3  
            a = 4;  
        }  
    }  
}
```

Listing 4.2: caption text

For in-text code insertion we can do it like this.

```
// Hello.java
import javax.swing.JApplet;
import java.awt.Graphics;

public class Hello extends JApplet {
    public void paintComponent(Graphics g) {
        g.drawString("Hello, world!", 65, 95);
    }
}
```



4.2 Timeline



Appendix A

About Appendices

Appendices are optional and should only be used if necessary.



Appendix B

Script

The following file is used, hence can be imported directly from the file.

```
# random_script.py
```

```
import math
# initialize x and n with values
x = 4
n = 3
# approach 1
result_val = x ** n
print("%d raised to the power %d is %d" % (x,n,result_val))
# approach 2
result_val = pow(x,n)
print("%d raised to the power %d is %d" % (x,n,result_val))
# approach 3
result_val = math.pow(x,n)
print("%d raised to the power %d is %5.2f" % (x,n,result_val))
```