

# Latex Certificate Course

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## Contents

### 1 Day 1

#### 1.1 Verbtex installation

Install Verbtex application from Google Playstore.  
( Note : Install a pdf viewer if you don't have one.)

#### Compilation of Sample document

Select Local Mode.  
Create Project : *Latex Course*  
Open Project.  
( Note : Verbtex automatically opens document.tex file. )  
Generate pdf.

### 2 Day 2

#### 2.1 Document Title

Download *day02.tex* into Verbtex Project : *Latex Course*  
Open **Verbtex** Application and Open Latex Course Project.  
( Note : Verbtex automatically opens *day02.tex* file. )  
Follow instructions from *asg02.pdf*  
Submit *day02.tex* and *Latex Course.pdf* files.

### 3 Day 3

#### 3.1 Text Formatting

Use `textbf`, `textit` Commands for boldface, italic fonts.

#### 3.2 Table of Contents

Use `tableofcontents` Command for auto-generating Table of Contents.  
Always generate pdf ***twice*** to update page numbers.  
Follow instructions from *asg03.pdf*

## Combined Styles

This ***word*** is both **boldface** and *italic*.

## 4 Day 4

### 4.1 Lists

There are three list environments in LaTeX.

#### **itemize environment**

- § This is a bulleted list.
1. First Subitem
  2. Second Subitem
- § This is second item on the list.

#### **enumerate environment**

1. First item
  - i First Subitem
  - ii Second Subitem
2. Second item
3. Third item
4. Fourth item<sup>1</sup>

#### **description environment**

**toc** table of contents

**lof** list of figures

**lot** list of tables

### 4.2 Footnotes

This word<sup>2</sup> has a footnote associated to it.

## 5 Day 5

### 5.1 Page Margin

- Package geometry can be used to customize page margins.

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<sup>1</sup>Assignment Day 4

<sup>2</sup>This is a footnote

## 5.2 Header & Footer

- Package fancyhdr can be used to customize page headers and footers.

## 6 Day 6

### 6.1 Math Mode

- Inline mathematical expressions are written between two \$ symbols.
- There are L<sup>A</sup>T<sub>E</sub>X commands that work/don't work in different settings.

#### Superscripts & Subscripts

- Superscripts are written using caret ^
- Subscripts are written using underscore \_

#### Assignment

Expressions are :  $3^2 + 4^2 = 5^2$ ,  $\sin \pi = 0$ ,  $5 \times 4 = 20$ , and  $a_2x^2 + a_1x + a_0$ . We may write expressions with multi-character superscripts and subscripts. For example :  $\log_{10} x^{12}$ .

## 7 Day 7

### 7.1 American Mathematical Society : AMS

- Packages : amsmath, amssymb, amsfonts, amsthm, ...