Leaning Latex

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Contents

1   Introduction to Latex

Briefly put, LaTeX is a text editing and typesetting platform designed especially for the use in Mathematics, Engineering, Science and Industry. However, it should be noted that LaTeX is not only restricted to these fields.

1.1 How to install Latex

1.1.1 in windows

first install MikTex

then install any editor like text studio, tex maker, textlive....

1.1.2 in Linux

in ubuntu sudo apt-get install kile

2 What is the purpose of LaTeX?

LaTeX is a tool that can be used to produce professional quality documents that employ symbolic representation, charts and notation for quantitative and mathematical ideas and concepts. It can also be used to compose high quality presentations in power points, publish journal papers and books.

3 What are its benefits?

For the working mathematician, engineer or scientist, LaTeX has a library of commands which relay standard symbolic and notational conventions which allow for ease in representing and conveying mathematical constructs in a clear and easy manner.

4 Text fonts Representations

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5   Table representation

Table 1: This is my First Table

S.no	Subject1	Subject2
1	Maths	IT
2	Chem	Physics

Sno	s1	s2	s3	total
1	90	66	0	xx
2	0	66	55	xx
3	00	66	5	xx
4	00	55	565	xx

6   Maths Equations

$$(a+b)^2 = a^2 + b^2 + 2ab$$
$$\left(\frac{a}{b}\right)^2 = \frac{a^2}{b^2}$$

7   Images Representation

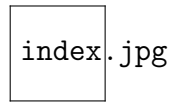$$(a+b)^2 = a^2 + b^2 + 2ab \tag{1}$$

- First Elements

Figure 1: this is first image

- Second Elements

1. Third Elemene

2. Fourth Element