LATEX INSTALLATION

# **Introduction**

This guide will walk you through the step-by-step process of installing LaTeX on a Windows operating system. LaTeX is a typesetting system commonly used for technical and scientific documents. By the end of this guide, you will have a fully functional LaTeX environment on your system.

## Step 1: Downloading MiKTeX

MiKTeX is a popular LaTeX distribution for Windows. Follow the steps below to download and install it.

### 1. Visit the MiKTeX Website

* Open your web browser and go to https://miktex.org/download.
* Look for the Windows installer download option.

|  |  |
| --- | --- |
| Figure 1.1 | This image shows the MiKTeX website download page. The highlighted area indicates the correct installer for Windows. Click the appropriate download link to start downloading the installer. |

### 2. Running the Installer

* Locate the downloaded installer file (usually in the Downloads folder).
* Double-click the installer to run it.

|  |  |
| --- | --- |
| **Accepting License Agreement**   * Read the license agreement carefully. * Select 'I accept the agreement' and click 'Next' to continue.   The image highlights the license agreement section. Accept the agreement to proceed. | Figure 1.2 |

## Choosing the Installation Type

* Select the option for a complete installation ("Install for all users").
* Click 'Next'.

|  |  |
| --- | --- |
| Figure 1.3 | This figure shows the installation type selection screen. It is recommended to choose the full installation to avoid missing packages later. |

## Selecting Installation Directory

* Choose the default directory or specify a custom location for MiKTeX.
* Click 'Next' to proceed.

|  |  |
| --- | --- |
| This figure displays the directory selection screen. The highlighted box shows the default path. Click 'Next' after confirming the location. | Figure 1.4 |

## Start the Installation

* Click 'Start' to begin the installation process.

|  |  |
| --- | --- |
| Figure 1.5 | The image shows the final confirmation screen before installation. Click 'Start' to proceed. |

## Completing the Installation

* Wait for the installation to complete.
* Click 'Finish' once the process is done.

|  |  |
| --- | --- |
| This figure shows the completion screen of MiKTeX. Click 'Finish' to close the installer. | Figure 1.6 |

# Step 2: Downloading and Installing TeXworks

TeXworks is a simple LaTeX editor bundled with MiKTeX.

## 1. Launching TeXworks

* After installing MiKTeX, search for TeXworks in the Start menu and open it.

|  |  |
| --- | --- |
| Figure 1.7 | The image shows the TeXworks application after launching. This is the interface where you can start writing LaTeX documents. |

## Selecting the location

|  |  |
| --- | --- |
| Select location where you want to install texworks | Figure 1.8 |

## Testing the Installation

* Type a simple LaTeX document in TeXworks:
* Click the green play button to compile the document.

|  |  |
| --- | --- |
| Figure 1.10 | This image shows the TeXworks editor with a sample LaTeX document. The green play button compiles the code. |