




**KCES's College of Engineering and Management, Jalgaon**  
**Activity Report**

<b>Name of The Activity : Online Workshop on LaTeX.</b>			
<b>Category of activity</b>		<b>Co-curricular</b>	
<b>Date:</b>	05/04/2021 to 09/04/2021	<b>Participants profile:</b>	SE Electrical Students
<b>Name of Co-ordinator (S)</b>	1. Mr.S.M.Nath 2. Mr.P.D.Kulkarni		
<b>Guest/ Experts (If any)</b>	By Spoken Tutorial IIT Bombay		
<b>Objective for conducting activity</b>	<ul style="list-style-type: none"><li>➤ To know how to use LaTeX software.</li><li>➤ It describes the development process of LaTeX.</li><li>➤ It explains the advantages of LaTeX over other more traditional software.</li><li>➤ It gives information about different components of LaTeX</li><li>➤ It give brief knowledge about how to use different news command by using LaTeX.</li><li>➤ It describes knowledge about use of Indic type language setting in LaTeX.</li></ul>		
<b>Methodology</b>	Through online video lectures		
<b>Out Come</b>	<ul style="list-style-type: none"><li>➤ Participants will know the use of Tex and LaTeX.</li><li>➤ It Describes the development process of TeX and LaTeX</li><li>➤ It explains how to obtain LaTeX.</li><li>➤ Participants will get lists LaTeX compatible operating systems.</li></ul>		

**Photos:**

  
IQAC coordinator



  
**Principal**  
K.C.E.SOCIETY'S  
COLLEGE OF ENGG. &  
MANAGEMENT, JALGAON



## The Spoken Tutorial project

- \*Self-explanatory - uses simple language
- \*Audio-video - uses multisensory approach
- \*Small duration - has better retention
- \*Learner centered - learn at your own pace
- \*Learning by doing - learn and practice simultaneously
- \*Empowerment - learn a new FOSS

## Target Group

- \*Students - High School and College
- \*Working professional - Software users, developers and trainers
- \*Research scholars
- \*Community at large

## Workshops

The Spoken Tutorial Project Team conducts workshops on LaTeX and several FOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)

The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

## Contact us

Email: [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)

Website: <http://spoken-tutorial.org>



IIT Bombay

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# Spoken Tutorial

# L<sup>A</sup>T<sub>E</sub>X

National Mission on Education through  
Information and Communication Technology  
(NMEICT)  
[www.sakshat.ac.in](http://www.sakshat.ac.in)

Funded by MHRD, Government of India

<http://spoken-tutorial.org>



## What is LaTeX?

LaTeX is a document preparation system for high-quality typesetting. Often used for technical or scientific documents, it can be used for almost any form of publishing: letter, report, textbook, etc...

LaTeX lets authors get with writing documents without being bothered about document design.

Download LaTeX from  
<http://tug.org/begin.html>

## Benefits of LaTeX:

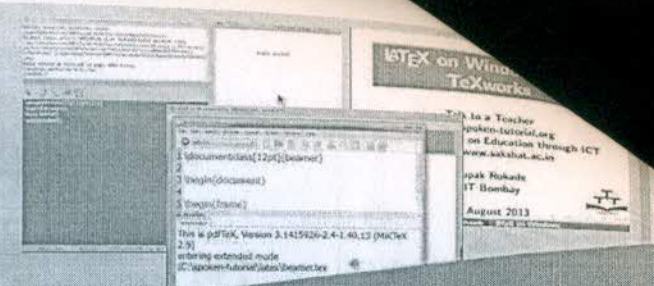
### Benefits of LaTeX:

- \*Works on all OS: Linux, Windows, Mac OSX.
- \*Easily typesets journal articles, technical reports, books and slide presentations.
- \*Controls large documents containing sectioning, cross-references, tables and figures.
- \*Typesets complex mathematical formulae with ease.
- \*Advanced typesetting available for mathematical equations.
- \*Automatic generation of bibliographies and indexes.
- \*Multi-lingual typesetting.

- \*Inclusion of artwork and process or spot color.
- \*Uses PostScript or Metafont fonts.
- \*Very active user community.

## Xfig

- \*Xfig is a free and open source vector graphics editor. It is a drawing tool for use on the Linux and UNIX services.
- \*Xfig was written by Supoj Sutanthavibul in 1985.
- \*In Xfig, figures may be drawn using objects such as circles, boxes, lines, spline curves, text etc.
- \*It is also possible to import images in formats such as GIF, JPEG, EPS, PostScript etc.
- \*These objects can be created, deleted, moved or modified. Attributes such as colours or line styles can be selected in various ways.
- \*Xfig has a facility to print figures to a Post-Script printer too.
- \*Convenient feature is the PSTEX or PDFTEX export format. This allows a smooth integration of Xfig-generated images into LaTeX documents.
- \*Most operations in Xfig are performed using the mouse. But some operations may also be performed using keyboard (accelerators) shortcuts.
- \*The interface is designed for a three-button mouse, although it is also possible to use a two button or a one button mouse with appropriate emulation.



## Tutorials in the series

- \*LaTeX on Windows using TeXwork
- \*What is Compiling?
- \*Letter Writing
- \*Report Writing
- \*Mathematical Typesetting
- \*Equations
- \*Tables and Figures
- \*Beamer
- \*Bibliography
- \*Inside story of Bibliography
- \*Simple block diagram
- \*Feedback control diagram
- \*Feedback diagram with Maths

These tutorials are also available in many Indian languages such as English, Hindi, Bengali, Bhojpuri, Gujarati, Kannada, Marathi, Sanskrit, Tamil, Telugu.



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COLLEGE OF ENGINEERING & MANAGEMENT, JALGAON - 425001  
Electrical Engineering Department  
Academic Year 2020-21 SEM - II

DATE: 03/04/2021

## Schedule for LaTeX Workshop

Sr.no.	Date	Topic
1	05/04/2021	LaTeX on windows using TeXworks
2	05/04/2021	Report writing
3	05/04/2021	Letter writing
4	06/04/2021	Mathematical typesetting
5	06/04/2021	Equations
6	06/04/2021	Numbering equations
7	07/04/2021	Tables and figures
8	07/04/2021	Beamer
9	07/04/2021	Bibilography
10	08/04/2021	Feedback diagram with maths
11	08/04/2021	Newscommand in LaTeX
12	08/04/2021	Newenviornment in LaTeX
13	09/04/2021	Writing style files in LaTeX
14	09/04/2021	Indic typelanguage setting in LaTeX



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HOD

Mr. Kalpesh M. Mahajan



**KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON****A.Y 2020-21****Spoken tutorial IIT Bombay****Participant List****Class: S.Y. B.Tech (Electrical Engg.)**

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Spoken Tutorial  
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# Certificate of Participation

This is to certify that **KOMAL DHANGAR** participated in the **LaTeX** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **January 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **LaTeX** were covered in the training.

April 30th 2021

Prof. Kannan M Moudgalya  
IIT Bombay





Spoken Tutorial  
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IIT Bombay

# Certificate of Participation

This is to certify that **PARAG PATIL** participated in the **LaTeX** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **January 2021** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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April 30th 2021

**Prof. Kannan M Moudgalya**  
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