

Certificate Course

2019 - 2020

“Elementary Course  
in LATEX”



Government of West Bengal

Government General Degree College, Muragachha

Department of Mathematics

MURAGACHHA, NADIA, PIN- 741154

Phone No.: 03474-268008 web: [www.muragachhagovtcollege.org](http://www.muragachhagovtcollege.org) e-mail: [mgnadia2015@gmail.com](mailto:mgnadia2015@gmail.com)

Ref. No.....

Dated: 03.09.2019

# Elementary Course in LATEX

CERTIFICATE COURSE BY

DEPARTMENT OF MATHEMATICS

JOIN IN OUR PROGRAM...

STAY AHEAD OF OTHERS

**Course Objective:** After successfully completing Elementary Course in LaTeX, students will be able to

1. Successfully install LaTeX and its related components on a home/ Personal computer.
2. Independently typeset Mathematical, Scientific and general purpose documents in a well organized manner and atmost accuracy.
3. Use of LaTeX and various templates acquired from the course to compose Mathematical documents, Presentation and reports.

**CourseDuration:** 30 hours (Theory: 10 hrs, Practical: 20 hrs)

**Mode Of delivery:** Classroom Lectures & Hands on (in the Lab)

**Date:** 17<sup>th</sup> Oct to 25<sup>th</sup> Oct 2019



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## Syllabus (Outline):

- Introduction to word Processor and Type Setting Software.
- Introduction to MikTex and TexStudio.
- The structure of a Latex document, Defining class of the document through `\documentclass` and using packages through `\usepackage`, `\begin{document}` and `\end{document}`
- Text formatting and colouring commands.
- Introduction to Mathematics Environment, Writing Greek Symbols and some basic mathematics type structure like Fractions, Superscript, subscript, Overline, Underline etc.
- Matrix, Determinant and Other similar structure.
- Equations and Arrays
- Inserting pictures and tables, Defining, redefining and using Macros
- Special Environments: Enumerates, Tabular, Cases etc.
- Power point Presentation using Beamer
- Advance packages

Contact for information and registration:

Dr. Biswajit Saha and Mr. Prabir Chakraborty, Course Coordinators,

Department of Mathematics,

Government General Degree College, Muragachha

Mob No.: 7908483300 and 8013187678



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## Certificate Course on "Elementary Course in LATEX" 2019

### LECTURE AND LAB SCHEDULE

TOPIC	Date	NO. OF LECTURES/ HANDSONSESSION (IN HOURS)
Introduction to word Processor and Type Setting Software.	17.10.2019(11.00 AM- 01.00 PM)	02
Introduction to MikTex and TexStudio	17.10.2019 (02.00 PM- 04.00 PM)	02
The structure of a Latex document, Defining class of the document through \documentclass and using packages through \usepackage, \begin{document} and \end{document}	18.10.2019 (11.00 AM- 01.00 PM)	02
<b>Lab Session</b>	18.10.2019 (02.00 PM- 04.00 PM)	02
Text formatting and colouring commands	19.10.2019 (11.00 AM- 01.00 PM)	02
<b>Lab Session</b>	19.10.2019 (02.00 PM- 04.00 PM)	02
Introduction to Mathematics Environment	21.10.2019 (11.00 AM- 12.00 PM)	01
Writing Greek Symbols and some basic mathematics type structure like Fractions, Superscript, subscript, Overline, Underline etc.	21.10.2019 (12.00 AM- 01.00 PM)	01
<b>Lab Session</b>	21.10.2019 (02.00 PM- 04.00 PM)	02
Matrix, Determinant and Other similar structure.	22.10.2019 (11.00 AM- 01.00 PM)	02
<b>Lab Session</b>	22.10.2019 (02.00 PM- 04.00 PM)	02
Equations and Arrays	23.10.2019 (11.00 AM- 12.00 PM)	01
Inserting pictures and tables, Defining, redefining and using Macros	23.10.2019 (12.00 AM- 01.00 PM)	01
<b>Lab Session</b>	23.10.2019 (02.00 PM- 04.00 PM)	02
Special Environments Enumerates, Tabular, Cases etc.	24.10.2019 (12.00 PM- 01.00 PM)	02
<b>Lab Session</b>	24.10.2019 (02.00 AM- 04.00 PM)	02
Power point Presentation using Beamer and advanced packages	25.10.2019 (11.00 AM- 01.00 PM)	02
Certificate Distribution	25.10.2019 (01.00 PM- 02.00 PM)	

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3/9/19

*[Signature]*  
03.09.2019

Course Coordinator

(Dr. Biswajit Saha & Mr. Prabir Chakraborty)  
Government General Degree College, Muragachha

*[Signature]*  
03/09/2019

Officer In-Charge

Government General Degree  
College, Muragachha

**Officer-in-Charge**  
Govt. General Degree College Muragachha  
Muragachha Nakashipara Nadia