P.G DEPARTMENT OF PHYSICS (S.F)

DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT
ON
ADD-ON COURSE

Basic Latex
Conducted for II PG Students

Academic Year 2021-22

LaTeX is a document preparation system. It is an open-source system that provides numerous facilities for typesetting of the document. It helps in structuring page layout, listing and auto-numbering of sections, tables, figures, generating table of contents, managing cross-referencing, citing, and indexing. It is widely used for publishing in many scientific fields like mathematics, statistics, computer science, engineering, chemistry, physics, economics, linguis-tics. It is most often used for technical or scientific documents but it can be used for almost any form of publishing.

Benefits of LATEX

LATEX is an alternative to text editing software like MS Word. It enables to format and typeset complex documents. It helps to write complex mathematical equation, generate tables and prepare list with ease in the desired format. It also helps to structure or format article, document or journal paper and cite references as required by the journal. It is very useful in writing mathematical documents, journal papers and books. Learning LaTeX helps the students and gives them an upper hand in writing research papers, journals, etc. with ease.

SYLLABUS

Instructional Hours: 30 hours

Objectives

LATEX, an add on course, conducted by P.G Department of Physics gives an introduction to the documentation software LATEX. This course includes basics in writing a document in LATEX and teaches the basic commands for creating the contents of the documents. The course is conducted for Undergraduate and Postgraduate students and is covered in 30 hours with assignments and projects. The course prepares the students to create mathematical documents and helps them to write their final project in LATEX.

1 Module 1- Introduction to LATEX

10 hours

Introduction what is LATEX, history of LATEX, benefits, virtues of open source, separation of form and content, portability, comparing LATEX with other word processor software, installation, introduction to over-leaf Document Structure Document class, page style, page numbering, formatting lengths, parts of a document, creating title - sections - labeling - table of contents, dividing the document. Typesetting text Font effects, coloured text, font sizes, lists, special characters. Practical sessions in LaTeX

2 .Module 2- LATEX for Education and Research

10 hours

Introduction Outline for a project report, basic structure of a scientific paper, starting a document in LATEX. Macros Packages, math mode, Latin abbreviations, references for figures- tables- equations- and sections, comments. Document class Book, report, article, thesis, question papers, syllabus. Organization of LATEX files Figures in separate folders, figures: resolution, position, caption, multiple images, videos, tables, algorithms. Practical sessions in LaTeX

3. Module 3- LATEX for Communication and Presentation 10 hours

Introduction Methods of communication and presentations: letters, oral and poster presentations, advan-tages of LATEX, Beamer Templates, slide setup, packages, themes, Practical sessions in LaTeX

Course Outcomes

After the completion of the course the students will be able to

- Identify and understand LATEX as a document preparation system
- Create and design documents in LaTeX and presentations in Beamer
- Handle different types of documents
- Organize documents into different sections, subsections, etc..
- Handle complex mathematical formulae in document
- Expertise in Cross-referencing, bibliography, and Indexing
- Create presentations in beamer
- Make posters using LATEX

Reference:

• LATEX: A Document Preparation System : User's Guide and Reference Manual, Leslie Lamport,

Duane Bibby, Addison-Wesley, 1994, Michigan

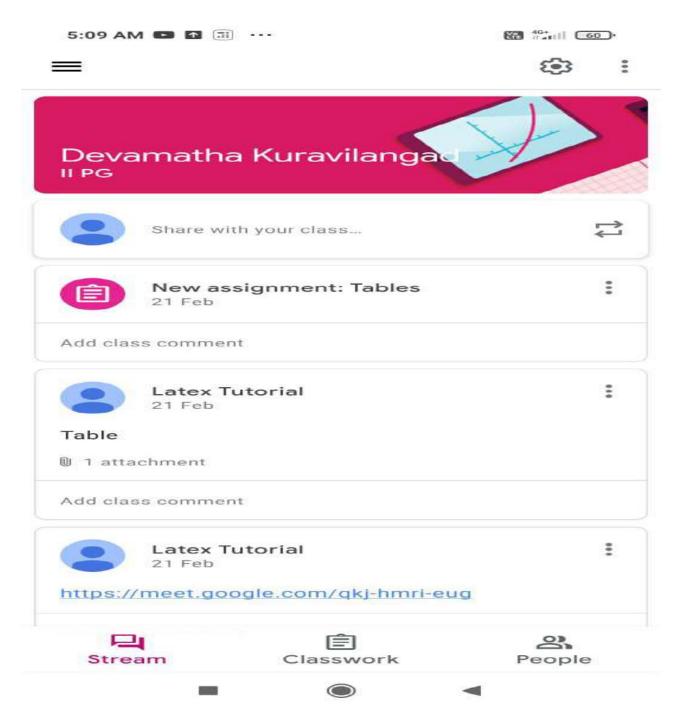
• Math Into LATEX: An Introduction to LATEX and AMS-LATEX, George Gratzer, Birkhauser Boston,

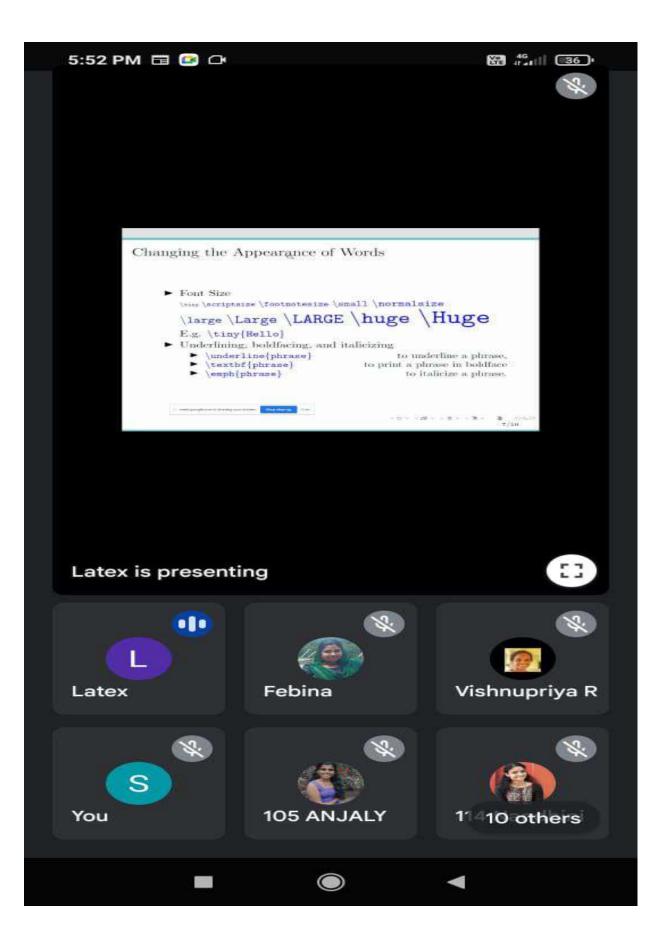
Resource Person

1. Dr. Anju Babu

Programme Instructor

Photos of Conducted Live session





Attendence Sheet

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Name	1	2	3	4	5	6	7	8	9	1	1	1 2	1	1 4	1 5	1 6	1 7	1 8	1 9	2	2	2	2	2	2 5	2 6	2 7	2 8
ADITH YA R KRISH NAN	х	х	х	х	х	A b	х	х	х	х	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х
ALEEN A DOMINI C	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	x	х	х	x	х	х	х	х	х	х	х	х
ANJALY VINOD	A b	х	x	х	х	х	х	х	х	х	х	х	A b	х	х	A b	A b	х	х	х	х	х						
ANJITH A DAVIS	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
ANSE MARIA TOMY	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	×
ASHA THOMA S	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	x
ASWAT HI M	х	х	х	A b	х	х	х	х	х	х	х	х	х	A b	х	х	х	х	A b	A b	A b	х	A b	х	х	х	х	х
DARVIN DEVASI A	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	x
DINTO JOY	х	A b	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
DINU TONY	х	х	х	A b	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
FEBINA FATHIM A V N	x	х	х	х	x	x	х	x	x	х	х	x	х	x	х	х	х	х	x	x	х	х	х	х	х	х	x	х
NANDHI NI PR	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х
NIVIN DEVASI A	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х

RADHIK A V	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х
SANDR A ANTON Y	х	x	x	x	x	х	A b	х	х	х	х	х	х	x	х	х	х	х	x	x	x	x	х	x	х	х	х	х
SOORA J K S	х	х	х	х	A b	х	х	х	х	х	х	х	х	х	х	х	х	х	A b	х	х	х	A b	х	х	х	х	х
NANDHI NI PR	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	Х	х	х	х	х	х	х	х
SWATH Y SASIKU MAR	x	x	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	х	х	х	х	х	x	х	х	х	x
THASLE ENA M	х	х	х	A b	х	х	х	х	x	x	х	х	х	х	х	х	х	х	х	х	A b	х	A b	х	х	х	х	х
VISHNU PRIYA R HEGDE N	x	x	х	х	х	х	х	х	x	x	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	x
ALEEN A JOSE	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	A b	х	х	х	х	х	х	х	х	х

MARK SHEET EXAM CONDUCTED ON 28/03/2022

S.N	NAME	GRADE SHEET
1	ADITHYA R KRISHNAN	A+
2	ALEENA DOMINIC	A+
3	ANJALY VINOD	A+
4	ANJITHA DAVIS	A+
5	ANSE MARIA TOMY	B+
6	ASHA THOMAS	A+
7	ASWATHI M	A+
8	DARVIN DEVASIA	A
9	DINTO JOY	A+
10	DINU TONY	A+
11	FEBINA FATHIMA V N	A+
12	NANDHINI PR	B+
13	NIVIN DEVASIA	A+
14	RADHIKA V	A+
15	SANDRA ANTONY	A+
16	SOORAJ K S	A+
17	SREERAJ E	А
18	SWATHY SASIKUMAR	A
19	THASLEENA M	A+
20	VISHNUPRIYA R HEGDEN	A+
21	ALEENA JOSE	A+

Sample Certificate



Feedback & Students List

Adithya R Krishnan	II MSc Physics, 20PG101	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree
Aleena Jose	Msc physics 104	Very good	Very good	Very good	Agree	Strongly agree	Agree
Febina Fathima V N	2nd PG Physics, 113	Very good	Excellent	Very good	Strongly agree	Strongly agree	Agree
Radhika V	2nd pg physics ,116	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree
Aleena Dominic	Msc physics, 102	Very good	Very good	Excellent	Agree	Strongly agree	Agree
Anjitha Davis	Msc Physics 106	Very good	Very good	Very good	Agree	Agree	Agree
Sooraj K S	MSc Physics, 20PG118	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree
Dinu Tony	MSc.Physics, 112	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree
SREERAJ E	MSc physics 119	Excellent	Very good	Very good	Agree	Strongly agree	Strongly agree

Sandra Antony	117	Good	Good	Good	Neutral	Strongly agree	Neutral
Nandhini PR	2nd pg 114	Good	Good	Good	Agree	Agree	Agree
Swathy Sasikumar	2-M.sc Physics,20pg120	Very good	Very good	Very good	Agree	Agree	Agree
Vishnupriya R Hegden	2nd Msc Physics , 20PG123	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree
Nivin Devasia	2 nd P G Physics -115	Very good	Very good	Very good	Agree	Agree	Agree
Anjaly Vinod	2nd MSc physics 20PG105	Very good	Very good	Very good	Strongly agree	Strongly agree	Strongly agree
Dinto Joy	2nd M.Sc.Physics, 20PG111	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree
Darvin Devasia	2 PG Physics ,110	Very good	Very good	Excellent	Strongly agree	Strongly agree	Agree
Asha Thomas	Msc physics ,108	Very good	Very good	Very good	Strongly agree	Strongly agree	Agree
ANSE MARIA TOMY	2 ND PG PHYSICS 20PG107	Excellent	Excellent	Excellent	Strongly agree	Strongly agree	Strongly agree





Department course coordinator

Principal
Deva Matha College
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