

Add-On course on LaTeX and Technical Presentation

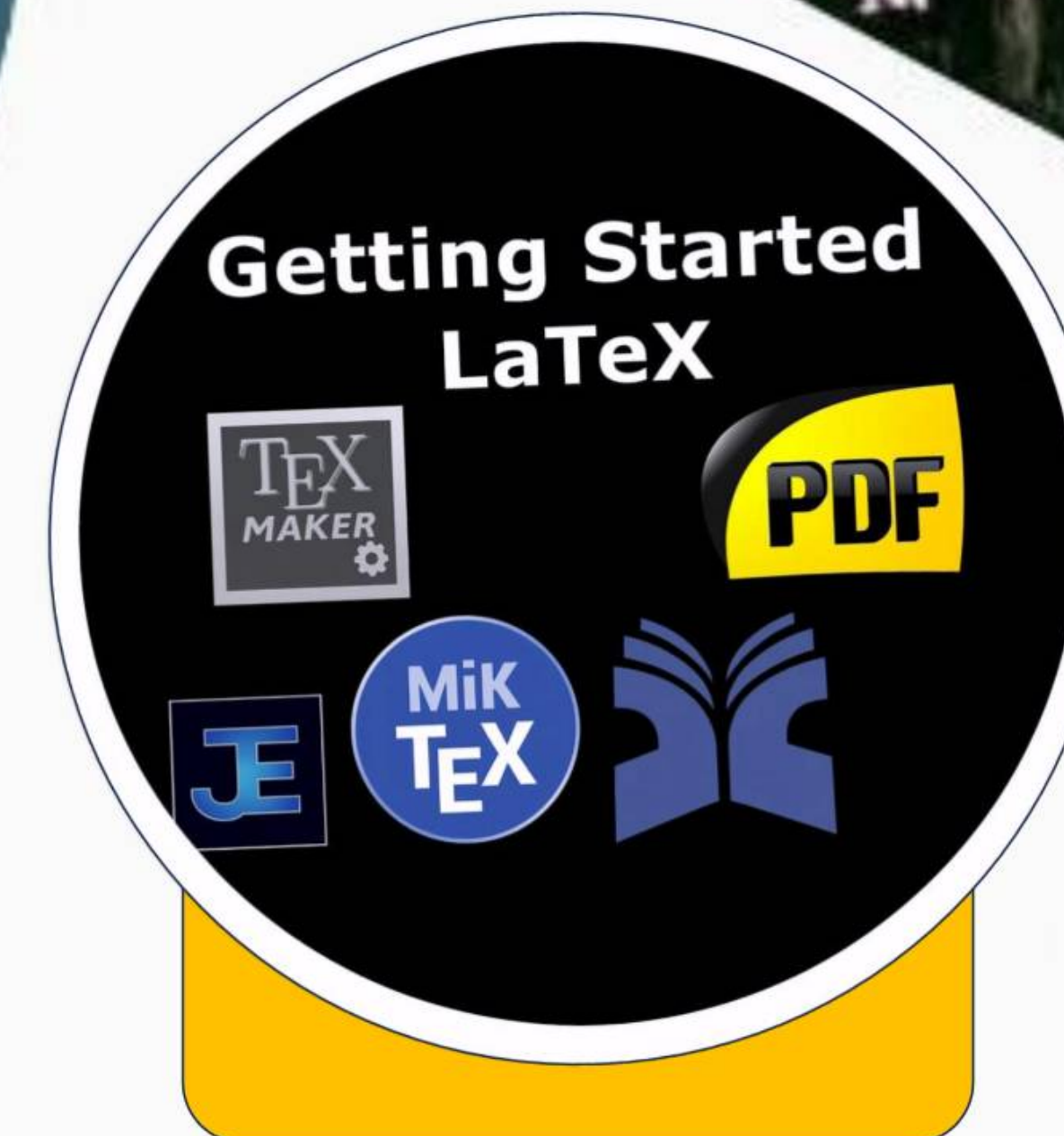
A report submitted to IQAC,
Netaji Mahavidyalaya

Department of Physics
Netaji Mahavidyalaya

Duration: 09-12-2025 to 19.01.2026

Venue: Computer Lab (Room No 92) & Smart Class Room-89

Add-on course on LaTeX and Technical Presentation



Duration of course:
**09/12/2025 to
19/01/2026**



Venue:
**Department Of Physics,
Netaji Mahavidyalaya**

```
\documentclass[] {article}
\begin{document}
The equation below shows quadratic formula -
\begin{equation}
x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}
\end{equation}
\end{document}
```

The equation below shows quadratic formula -

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Date: 25/11/25

To
The Head of Department
Department of Physics
Netaji Mahavidyalaya
Arambagh, WB- 712601

Subject: Request for permission to
conduct Add-on course on LaTeX for the
session - 2025-2026.

Respected Sir,

I would like to inform you that
Department of Physics is planning to
conduct an Add on course on LaTeX this
year. We are encouraged to continue the
course due to the overwhelming positive
response and feedback received from
the students last year.

I kindly request your permission and
support to conduct the Add-on course again
this year.

Thank you.

Sincerely,

Somenath Jais
Asst. Prof. of Physics.
NMV.
Phone no - 7548998481.

Received
B. K. Ma
25/11/25

Forwarded for
necessary action
Binoy Halder
25.11.25



NETAJI MAHAVIDYALAYA

AFFILIATED TO THE UNIVERSITY OF BURDWAN

ESTD - 1948

ARAMBAGH * HOOGHLY * WEST BENGAL * PIN CODE - 712601

ACCREDITED (2ND CYCLE) BY NAAC

Ref. No. Aram / NM / Office / 213/2024-25

Date 14.12.2024

To
The Inspector of Colleges,
The University of Burdwan.
Rajbati, Burdwan

Subject: Request for Approval of Add-On Courses in our college

Sir,

I am writing to you for your kind approval for the introduction of the add-on course titled "LaTeX-Beamer-MathType for Technical Writing & Presentation" and "Manuscriptology & Paleography" aimed at benefiting our students.

The detailed syllabi of the courses are attached herewith for your kind perusal.

We look forward to your positive response and continued support.

Yours sincerely,


14-12-24

(Dr. B. Garai)

Vice- Principal

VICE-PRINCIPAL

Netaji Mahavidyalaya
Arambagh, Hooghly





NETAJI MAHAVIDYALAYA

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ESTD - 1948

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ACCREDITED (2ND CYCLE) BY NAAC

Ref. No. **Aram / NM / Office /**

Date

SL. NO	COURSE TITLE	DEPARTMENT
1	LaTeX-Beamer-MathType for Technical Writing & Presentation	PHYSICS
2	Manuscriptology & Paleography	LIBRARY
Interested students are requested to contact course coordinators at least 7days before from the date of commencement of the course		
Selection first comes first serve basis		
No course fees required		



Class Routine for Add-On course
Add-On course on LATEX and Technical Presentation
 Department of Physics
 Netaji Mahavidyalaya

Sr. No.	Date	Time	Instructor	Signature
1	09.12.2025	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i> 9.12.25
2	11.12.2025	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i> 11.12.25
3	13.12.2025	3:00 PM – 5:00 PM	CKK	<i>CKK</i> 13.12.25
4	15.12.2025	3:00 PM – 5:00 PM	CKK	<i>CKK</i> 15.12.25
5	17.12.2025	3:00 PM – 5:00 PM	KM	<i>K. Mahapatra</i>
6	20.12.2025	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i>
7	22.12.2025	3:00 PM – 5:00 PM	CKK	<i>CKK</i> 22.12.25
8	27.12.2025	3:00 PM – 5:00 PM	CKK	<i>CKK</i> 27.12.25
9	29.12.2025	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i>
10	30.12.2025	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i>
11	05.01.2026	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i>
12	08.01.2026	3:00 PM – 5:00 PM	CKK	<i>CKK</i> 08.01.26
13	13.01.2026	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i>
14	15.01.2026	3:00 PM – 5:00 PM	KM	<i>K. Mahapatra</i>
15	17.01.2026	3:00 PM – 5:00 PM	SJ	<i>S. Jalal</i>
Exam	19.01.2026	3:00 PM – 5:00 PM	-	<i>S. Jalal</i> 19/1/26

Total: 30 Hours (minimum)

Binay Malakar

Signature of Course Convener
 (Dr. Binay Malakar)
 HOD, Department of Physics

Somenath Jalal
 19.01.2026

Signature of Course Coordinator,
 (Dr. Somenath Jalal)
 Assistant Professor, Dept of Physics, Netaji
 Mahavidyalaya

List of Candidates Registered for the Add-On Course (2025-2026)

Sr. No	Email address	Your Name	Department	Semester
1	skirfanhabib2023@gmail.com	Sk Irfan Habib	Physics	Sem-1
2	hansdasandipta708@gmail.com	Sandipta Hansda	Physics	Sem-1
3	dey99491@gmail.com	Subhajit dey	Physics	Sem-1
4	arif153530@gmail.com	Sk Arif Mohammad	Computer Science	Sem-1
5	rahamansekhrayat@gmail.com	SEKH Rahat Rahaman	Chemistry	Sem-1
6	amalarana0744@gmail.com	Shibam Rana	Computer Science	Sem-1
7	souradipkaity@gmail.com	Souradip Kaity	Physics	Sem-1
8	srilekhaghosh73@gmail.com	Srilekha Ghosh	Physics	Sem-3
9	pradipkumardhank42@gmail.com	Pradip Kumar Dhank	Physics	Sem-3
10	serinapervin532@gmail.com	Sneha Parvin Khatun	Physics	Sem-3
11	surajmukherjee2022@gmail.com	SURAJ MUKHERJEE	Physics	Sem-3
12	mehanaiparvin80@gmail.com	Mehanaip Parvin	Chemistry	Sem-3
13	guchhaitp583@gmail.com	Priyanka Guchhait	Physics	Sem-3
14	ghoshshubham9775@gmail.com	Shubham Ghosh	Physics	Sem-3
15	sdey8514057465@gmail.com	Subrata Dey	Physics	Sem-3
16	krishnahens08@gmail.com	Krishna Hens	Chemistry	Sem-5
17	kingshukdey2004@gmail.com	KINGSHUK DEY	Physics	Sem-5
18	sougatapandit555@gmail.com	Sougata Pandit	Mathematics	Sem-5
19	sanjitdas3380@gmail.com	Sanjit Das	Mathematics	Sem-5
20	palasmio5@gmail.com	Asmita Pal	Computer Science	Sem-5
21	srijitadadhikary200@gmail.com	Srijita Adhikary	Computer Science	Sem-5
22	soumenhazra.uchalan@gmail.com	Subarna Hazra	Computer Science	Sem-5
23	sg2940330@gmail.com	Sagar Ghosh	Mathematics	Sem-5
24	subhadippratihar663@gmail.com	Subhadip Pratihar	Mathematics	Sem-5

Sr. No	Email Address	Score	Your Name (this will be printed on your certificate)	Semester (will be printed on your certificate)	Your Department (will be printed on your certificate) write Department of ----- xyz-----
1	palasmio5@gmail.com	50 / 50	ASMITA PAL	Sem-V	Computer Science
2	srijitaadhikary200@gmail.com	50 / 50	SRIJITA ADHIKARY	Sem-V	Computer science
3	krishnahens08@gmail.com	50 / 50	KRISHNA HENS	Sem-V	DEPARTMENT OF CHEMISTRY
4	pradipkumardhank42@gmail.com	45 / 50	Pradip Kumar Dhank	Sem-III	Department of physics
5	kingshukdey2004@gmail.com	45 / 50	KINGSHUK DEY	Sem-V	PHYSICS
6	guchhaitp583@gmail.com	50 / 50	Priyanka Guchhait	Sem-III	Department Of Physics
7	ghoshshubham9775@gmail.com	45 / 50	Shubham Ghosh	Sem-III	Physics
8	soumenhazra.uchalan@gmail.com	30 / 50	Subarna hazra	Sem-V	Computer science
9	srilekhaghosh73@gmail.com	50 / 50	Srilekha Ghosh	Sem-III	Physics
10	surajmukherjee2022@gmail.com	40 / 50	SURAJ MUKHERJEE	Sem-III	Physics
11	serinapervin532@gmail.com	45 / 50	Sneha Parvin Khatun	Sem-III	Physics
12	skirfanhabib2023@gmail.com	20 / 50	Sk Irfan Habib	Sem-I	Physics
13	souradipkaity@gmail.com	40 / 50	Souradip Kaity	Sem-I	Physics major
14	somenath.jalal@gmail.com	50 / 50	Somenath Jalal	Sem-VI	Department of Physics

Add-On course on L^AT_EX and Technical Presentation

Add-on course cum Hands-on-Training organized by
Department of Physics, Netaji Mahavidyalaya

December 6, 2025

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1 Course at a glance:

- Name of the Add on Course: **Add-On course on $\LaTeX$ and Technical Presentation**
- Organizing Department: **Physics**
- Course Convenor: Dr. Binay Malakar (HoD); email: nmv.physics.hod@gmail.com)
- Course Coordinator: Dr. Somenath Jalal; email: somenathjnu.jalal@gmail.com; Ph : 7548998481
- Duration of Course: 30 Hours
- Target Group: Students of B.Sc, Research Scholars and Faculties
- Course Commencement Date: **09 December, 2025**
- Course End Date: 19 January 2026
- Evaluation Date: 19 January 2026
- Announcement/Publication of results and distribution of certificate: **19 January 2026**
- Resource persons:
 1. Dr. Somenath Jalal (Asst. Prof. of Physics Department, NMV)
 2. Dr. Chayan Kanchan Karmakar (Asst. Prof. of Physics Department, NMV)
 3. Karabi Majhi (SACT, Physics Department, NMV)
- About the Add-On Course: LaTeX is a powerful tool for typesetting documents, which is used mainly for producing scientific documents of high typographic quality. The course is designed to acquire the skill of high-quality typesetting for technical writing, publication of research papers, PhD thesis and book chapters with table of contents, formula, indexing, bibliography etc along with beautiful presentations skill. Mathtype (by Wiris) is a formula writing software which can be attached to Microsoft Office tools such as Word and Power Point to create Mathematical equations at ease. Latex Compiled documents are accepted format for submission to scientific journals, as well as many professional publishers.
- Objective of the Certificate Course: Scientific Writing Skills
- Intake Capacity : 40 (Computer Lab, Room No. 92)
- Fees: Free of Cost.
- Link for registration: [Click Here](#) or go to our website url: [Add-On website](#)

2 Introduction

This add-on course cum hands on training programme titled **"Add-On course on $\LaTeX$ and Technical Presentation"** is designed to acquire the skill of high-quality typesetting for technical writing, publication of research papers, theses and book chapters with table of contents, formula, indexing, bibliography etc along with beautiful presentations skill. mathtype is a semi software attached to Microsoft Power Point to create Mathematical equations at ease.

3 Objectives

- To help students and faculties to prepare their research articles/books in LaTeX format which is prerequisite for some research journal. The technical aesthetics of the documents is also important for technical books with lots of equations and figures.
- To provide the students the opportunity to learn beyond their syllabus.
- To provide the students the opportunity to complete different certificate courses within the one-semester time period of the regular UG programme.
- To facilitate them to extent their interest level in different areas, specially learning computer.

4 POLICY STATEMENT

- The department of Physics, Netaji Mahavidyalaya is committed to provide additional courses to students to enhance their career and job prospects.
- This add-on course is designed in accordance with the academic need for higher studies specially theoretical Physics, Mathematics and Computer Science subjects.
- College encourages its fast learners to enroll in to this add-on courses. This policy provides students an opportunity to develop their skills and achieve their career.
- The eligible students who pursue the course will be given a certificate duly signed by the Principal/Vice-Principal of Netaji Mahavidyalaya and HOD, Department of Physics, the programme coordinator and Class teacher.

5 EXECUTION OF RESPONSIBILITIES

1. HOD identifies a faculty member from Department of Physics, to be the Programme coordinator.
2. HOD (himself the course convenor) and Programme coordinator along with IQAC coordinator of Netaji Mahavidyalaya will decide the amount of fees, number of students to be admitted, syllabus and duration of the course.
3. Programme coordinator should inform the students about the need and purpose of add-on courses. Fees, Syllabus and duration of the course should be informed to students/stakeholder clearly via advertisement.

4. The departmental website can be used for sharing information on add-on course
5. It is the responsibility of the Programme coordinator and HOD to ensure that the course should be completed within the stipulated time. In no case the examinations of this add-on course should overlap with the internal semester exams of the College.
6. Students are responsible to attend the course and examination and should adhere to the instructions given by the Programme coordinator.

6 PROCEDURE

- Coordinator prepares the syllabus, identifies internal (Physics Department or any other Science Department of Netaji Mahavidyalaya) and external faculties and submit to HOD which may be approved in the Department meeting.
- HOD (Programme convenor) and IQAC Coordinator approves the fee structure, no of students to be admitted and general plan of the course (starting date and exam date) will be approved and/or finalized.
- Details regarding the course (syllabus, course fee, exam dates etc) are communicated to students/stakeholders by display in college website or putting some sort of advertisement in the campus.
- Google form will be issued to get the names of list of participants and it will be stored in the email id (nmv.physics.hod@gmail.com)
- The course starts adhering to the policy of Add-On Courses. **Examination will be conducted in offline/online mode and Certificates will be issued to eligible students.**
- Students with this additional skills and knowledge that are relevant to their field of study, will be motivated to take up other add-on courses organized in this college to enhance their career and job prospects.
- Feedback from students will be taken after completion of this course.

7 Syllabus of the course

1. Scientific word processing: Introduction to LaTeX, TeX and PdfLaTeX word processor, Install MikTeX in Windows-10 Operating System
2 Hours: SJ¹
2. Install Texlive in Linux OS, for example in Ubuntu, and if resources available to Unix environment such as MacOS.
2 Hours: SJ
3. Preparing a basic LaTeX file, Document classes, Preparing an input file for LaTeX, Compiling LaTeX File
2 Hours: CKK
4. LaTeX tags for creating different environments, Defining LaTeX commands and environments, Changing the type style, Symbols from other languages.
2 Hours: CKK
5. Writing Equations in Microsoft Word and PPT, Writing a technical document in Word.
2 Hours, KM
6. Write html using LaTeX and write blog post using equations and greek symbols and formula.
2 hours , SJ
7. Write article, include different packages, title, section, subsection, figures, tables and array, generating table of contents,
2 Hours: CKK
8. Write article: include equations, equation array, matrix, vectors and write tensor equations, Figures, tables and array, generating table of contents.
2 Hours: CKK
9. Write book, chapter styles, header and footer, Fonts, Picture environment and colors. decoding errors.
2 Hours: SJ
10. Write book: page layout, line spacing, bibliography and citation, Making an index, List making environments.
2 Hours: SJ
11. Research article styles: documentclass, aps, prb, reprint, superscriptaddress, revtex4, title, author, affiliation, email, date
2 hours SJ

¹Short forms for the names of teachers are as follows: Dr. Chayan Kanchan Karmakar = CKK; Karabi Majhi - KM; Dr. Somenath Jalal =SJ

12. Research article styles: abstract writing, including figures, tables etc, bibliography
2 hours CKK
13. Beamer for creating poster, overview and comparison with Microsoft PPT, Beamer Presentation, Frame, frame title, blocks, include pictures, columns, table and overlays, bullets, itemize, enumerate, theme change, color change. automatic equation no and figure no table no. etc.
2 hours , SJ
14. Creating plots and high-quality images using some plotting software, adding equations and formulas directly on the graphs, incorporating Greek symbols in the x- and y-axes, plotting sample data, and interpreting the physical meaning of the graphs for pedagogical purposes only.
2 hours , KM
15. Create figures and diagrams using tikz, creating geometry and different pictures for your article, books, report and thesis. Creating publication quality plot with title, axis label and legends using LaTeX, gnuplot, inkscape.
2 hours , SJ

8 Learning Resources/References/Course materials

Some notes will be given during the class. Here are some books and notes available in the internet:

9 Sample Certificate

Will be attached at the end of the Course [See Course Website](#)

10 Attendance

Will be attached at the end of the course. (will be kept in google form/hard copy of attendance registrar.) [Course Website](#)

11 Gallery/Event pictures

GPS tagged pictures Will be attached as we progress.. [Course Website](#)
[Course Website](#)

Sample Certificate



NETAJI MAHAVIDYALAYA

CERTIFICATE FOR ADD-ON COURSE ON LATEX AND TECHNICAL PRESENTATION

This is to certify that

Pradip Kumar Dhank

a student of Department of **Physics, Sem-III**, has successfully completed the 30 hours Add-On course conducted by Department of Physics, from 09.12.2025 to 19.01.2026.

He/She has passed the final examination held on 19.01.2026 with **90%** marks.

(Dr. Somenath Jalal)

COURSE COORDINATOR

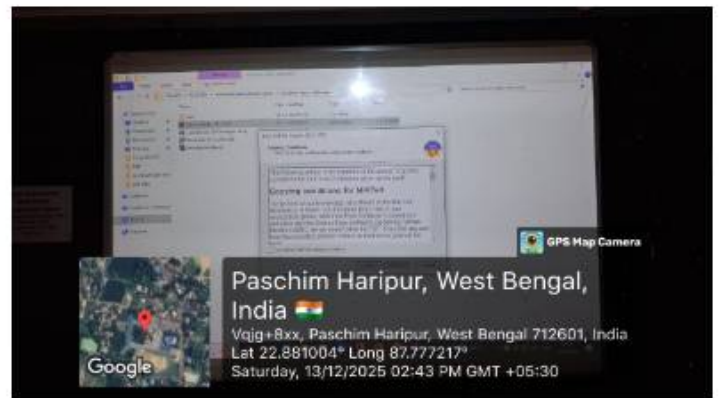
(Dr. Binay Malakar)

COURSE CONVENOR

(Dr. Sachchidananda Roy)

PRINCIPAL







Timestamp	Was the Add-On course on LaTeX helpful?	Have you attended any other Add-On Course from our college?	Have you attended any other Add-On course/certificate course/Swayam/Moocs etc from any other institution?	Tell us some ideas, new course names/any other add-on course/certificate course etc you might be interested into. you may check other A grade institutions what they are doing (to get an idea about Add-On courses your friends are attending).
1/21/2026 0:08:44	Yes	Yes	Yes, I have attended online certificate courses through SWAYAM, which have supported my academic learning and skill enhancement.	Add-on course on Animation – covering basics of 2D & 3D animation, motion graphics, visual storytelling, and use of animation software for creative and career-oriented applications.
1/22/2026 20:19:03	Yes	No	N/A	In 2026, leading "A" grade Indian institutions are shifting toward future-ready skills in AI, digital sustainability, and interdisciplinary certificates to enhance employability. 1. Emerging Technology & AI (High Demand) Top universities like Delhi University (DU) and various IITs are integrating AI across all disciplines. Generative AI for Professionals: Focused on using LLMs and agentic AI for business automation. Data Storytelling & Visualization: Using tools like Tableau and Power BI to turn raw data into insights. Cybersecurity & Ethical Hacking: Specialized certificates in "Cyber Security and Law" or "Ethical Emerging Technologist". Drone Technology: Practical courses on drone assembly, repair, and operation. 2. Industry-Specific Skill Enhancement These "Add-On" courses are popular because they bridge the gap between academic theory and job roles. E-Taxation & Applied Accounting: Includes Tally Prime, GST filing, and International Financial Reporting Standards (IFRS). Digital Marketing & MarTech: Advanced courses covering SEO, Social Media Influencing, and AI-driven marketing strategies. FinTech & Blockchain: Certificates in decentralized finance, smart contracts, and applied risk management. Medical Biotechnology: Focused on bioinformatics and in-silico medicine. 3. Professional "Soft Skills" & Leadership Leading institutions are offering formal certification in interpersonal abilities. Emotional Intelligence (EI) 2.0: Specialized training for workplace interpersonal interactions. Applied Psychometrics: Online mode courses for counseling and scale construction. Executive Presence & Storytelling: Blending theater techniques with leadership communication for effective public speaking. 4. Niche & Creative Courses Institutions like Miranda House and DU offer unique add-ons for personal development. Vedic Mathematics: Online certificate courses for rapid calculation techniques. Sports Journalism & Management: Combining sports passion with media reporting skills. Foreign Languages: High demand for Korean, Japanese, German, and French due to global industry ties. Sustainability Management: Executive programs focused on corporate social responsibility and environmental laws.
1/22/2026 20:28:22	Yes	Yes	Yes.	Animation and making reels with help of artificial intelligence
1/22/2026 20:31:36	Yes	Yes	No	Web design, spoken English
1/22/2026 20:46:28	Yes	Yes	No	Web development, OOPs
1/24/2026 9:03:57	No	No	yes	dont see any course in this college. more practical workshops needed. electrician i need learn. works on electronics or mobile phone repairing or electrification home wiring i need. you do i shall attend.

Concluding Remarks:

Students Outcomes : Total 24 Students enrolled for this course attended the classes. And out of them only 14 students completed the course to receive the certificate after passing the examination. Students have achieved expertise in:

- Typesetting of complex mathematical formulae using LaTeX.
- Use of tabular and array environments within LaTeX.
- Create or import graphics into a LaTeX document.
- Typesetting of journal articles, technical reports, and slide presentations using Beamer.
- Automatic generation of table of contents, bibliographies and indexes.
- Page setting, creating different document environment best fit to the requirements.
- Last but not the least, participants can write LaTeX like equations in Microsoft word using insert equations feature and typing LaTeX equations in it too.
- We have learnt the art of creating beautiful plots and figures which we get from experiments and label them with proper equations and greek symbols. These are the areas where our students struggled before attending this add-on course.

What we have not covered ?

- We have not used Prosper (for making professional like presentations) and PSTricks (for graphics design and animation using LaTeX) which is left for any advanced course in future.
- We have excluded writing book chapter in LaTeX and editing the inbuilt chapter title styles and themes (which our students are not interested in currently).

Somenath Jalal.
Asst. Prof. of Physics.
Course Coordinator of
Add-on course,
Department of Physics.