



HARMAL PANCHAKROSHI SHIKSHAN MANDAL'S

## **GANPAT PARSEKAR COLLEGE OF EDUCATION**

Vidya Sankul, Bhom Plateau, Harmal, Pernem – Goa 403524

(Affiliated to Goa University, Recognised by NCTE)

Recognised under Section 2(f) of the UGC Act, 1956



**MATHEMATICAL TYPESETTING USING LATEX**





Harmal Panchakroshi Shikshan Mandal's  
**GANPAT PARSEKAR COLLEGE OF EDUCATION**  
**VIDYA SANKUL, BHOM PLEATEAU, HARMAL, PERNEM**  
- GOA  
(Affiliated to Goa University, Recognised by NCTE)

(Value Added Course Committee)

No. 20

Date - 18/07/2024

## NOTICE

This is to inform all the course coordinators of the following Value Added Courses and the members of value added course committee that a meeting with I.Q.A.C. is scheduled on Friday, 19<sup>th</sup> July 2024 at 11.15 a.m. in the conference hall.

List of the proposed value added courses.

Sr. No.	Department	Title of the Course	Co-ordinators
1.	English	The Art of Communication: Keys to Professional Achievement	Mr. Siddhesh Raut
2.	Botany	Mushroom Cultivation	Ms. Akshatra Fernandes
3.	Geography	Advance surveying Techniques using Drone	Mr. Hitesh Dessai
4.	Geography	Leveraging Microsoft office for Geographic Data Analysis	Ms. Nikita Sawant
5.	Marathi	वाचन व लेखन कौशल्य प्रमाणपत्र अभ्यासक्रम	Dr. Geeta Yerlekar
6.	Hindi	रचनात्मक लेखन	Dr. Vibha Lad
7.	Konkani	वेव्हारीक कोंकणी	Ms. Vaishali Parab
8.	Zoology	Ornamental Fish Keeping	Ms. Karishma Naik
9.	Mathematics	Mathematical Typesetting Using LaTeX	Ms. Namrata Khorje
10.	History	Modi Marathi Script	Ms. Mrunali Sawant
11.	History	An introduction to archeology and museology	Mr. Gauresh Velip
12.	Education	Creating educational content through wall painting (Murals)	Mr. Pritesh Naik Mr. Dattaraj Chari
13.	Computer Literacy Cell	Enhancing Typing Skills	Mr. Tarun Malviya
14.	Geography	Exploring Maps Through GPS Technology	Mr. Ramnath Gaonkar
15.	Geography	Geospatial Research Methodologies: Theory And Practical	Mr. Tarun Malviya





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**REPORT**

**Type of the event:** Value Added Course titled 'Mathematical Typesetting using LATEX'

**Date:** 17<sup>th</sup> August 2024 to 22<sup>nd</sup> March 2025

**Venue:** Resource Room

**Participants registered for the event:** PCM students of S.Y.B.Sc.B.Ed.

**Objectives of the event:**

- To prepare well-formatted scientific documents involving the use of mathematical notations and figures.
- To enable second-year students opting for mathematics in the following year to type their third-year project reports using LaTeX.
- To showcase advantages of LaTeX over other typesetting software.

**Organizing Committee:** Department of Mathematics and Short-term Certificate Course Committee

**Organizing Committee Members:**

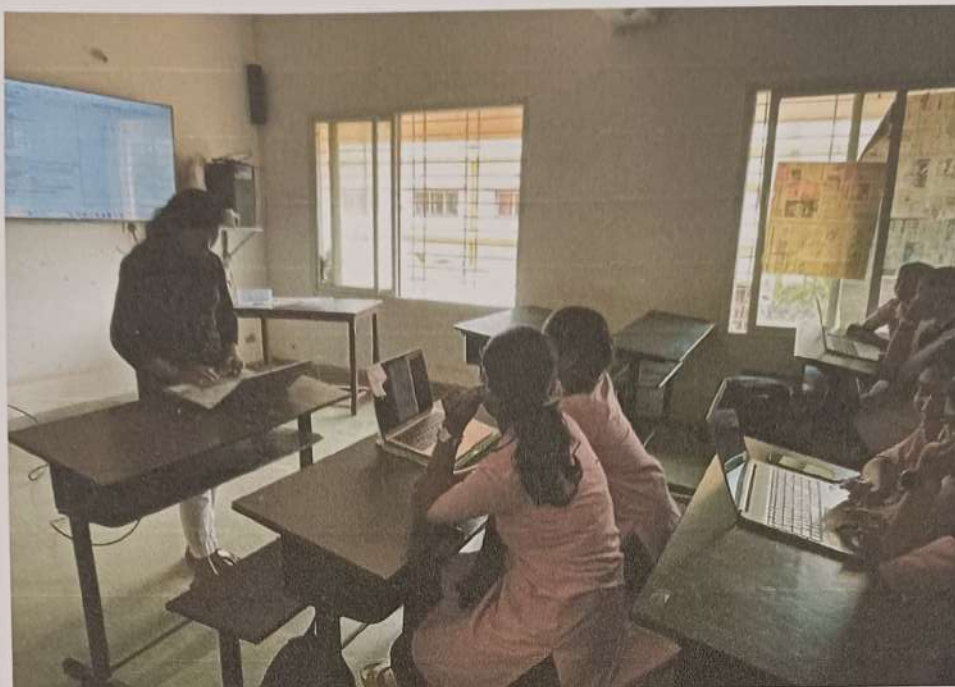
1. Ms. Namrata Khorje (Course coordinator & In-charge – Department of Mathematics)
2. Ms. Vaishali Parab (Convenor – Value added course Committee)
3. Mr. Nikhil Kuttikar (Faculty - Department of Mathematics)

**More details about the event:**

The Department of Mathematics in collaboration with the Short-Term Certificate Course Committee organized a 30-hour value added course on the topic 'Mathematical Typesetting in LaTeX' which ran from 17<sup>th</sup> August 2024 to 22<sup>nd</sup> March 2025. Ms. Namrata Khorje and Mr. Nikhil Kuttikar were the resource persons for the same. The students of S.Y. B.Sc.B.Ed. were introduced to LaTeX and were taught basic mathematical notations and symbols in the first few sessions. This was followed by the knowledge of equations and their alignment, tables, matrices, theorems and other advanced mathematical tools. Students were also instructed about book chapters, sections and subsections, inserting graphics as well as beamer presentations.



Photographs:



*NKhorje*  
Ms. Namrata Khorje  
In-charge  
Dept. of Mathematics

*Vaishali*  
Ms. Vaishali Parab  
Convenor  
VAC

*Pandurang*  
Dr. Pandurang Pandit  
Principal



# HPSM's Ganpat Parsekar College of Education, Harmal-Goa

## Value Added Course Attendance 2024-25

Course Title: Mathematical Typesetting Using LaTeX

Department: Mathematics

				Date:	10/08	17/08	24/08	31/08	31/08	28/09	5/10	11/01/25	18/01/25	25/01/25	15/02/25	22/02/25	01/03/25	Pilot Project
				Duration:	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	02Hrs	
Sr. No.	Roll No.	Name of the Student	Class															
1	2315008	Minosha Lourdes Rodrigues	S.Y.B.Sc.B.Ed		<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	<u>Minosha</u>	
2	2315002	Amisha Amal S Kunkolienkar	S.Y.B.Sc.B.Ed		<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	<u>Amisha</u>	
3	2315010	Ruchi Sitaram Sawant	S.Y.B.Sc.B.Ed		<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	<u>Ruchi</u>	
4	2315006	Hardik Jairam Parab	S.Y.B.A.B.Ed		<u>Hardik</u>	<u>Hardik</u>	<u>Hardik</u>	A	<u>Hardik</u>	A	A	<u>Hardik</u>	<u>Hardik</u>	<u>Hardik</u>	<u>Hardik</u>	<u>Hardik</u>	<u>Hardik</u>	
5	2315011	Ruhi Parveen Sheikh	S.Y.B.Sc.B.Ed		<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	<u>Ruhi</u>	
6	2315001	Sujay Uday Gaonkar	S.Y.B.Sc.B.Ed		<u>Sujay</u>	A	<u>Sujay</u>	A	<u>Sujay</u>	A	A	<u>Sujay</u>	<u>Sujay</u>	<u>Sujay</u>	<u>Sujay</u>	<u>Sujay</u>	<u>Sujay</u>	
7	2315004	Bhavana G. Nagvekar	S.Y.B.Sc.B.Ed		<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	A	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	<u>Bhavana</u>	
8	2315005	Dikshita Naik	S.Y.B.Sc.B.Ed		<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	<u>Dikshita</u>	
9	2315006	Harsha Naik	S.Y.B.Sc.B.Ed		<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	<u>Harsha</u>	
10	2315012	Nikita vishnu shinde	S.Y.B.Sc.B.Ed		<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	A	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	
11	2315003	Rutvik mahale	S.Y.B.Sc.B.Ed		<u>Rutvik</u>	A	<u>Rutvik</u>	A	<u>Rutvik</u>	A	A	<u>Rutvik</u>	<u>Rutvik</u>	<u>Rutvik</u>	<u>Rutvik</u>	<u>Rutvik</u>	<u>Rutvik</u>	
12	2315009	VARAD VILAS SATHKAR	S.Y.B.Sc.B.Ed		<u>Varad</u>	A	<u>Varad</u>	A	<u>Varad</u>	A	A	<u>Varad</u>	<u>Varad</u>	<u>Varad</u>	<u>Varad</u>	<u>Varad</u>	<u>Varad</u>	

Name and signature of the Course Coordinator: Ms. Namrata Khorje

( Namrata Khorje )



Roll No. 08/03/2025 22/03/2025

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|----|-------------|-------------|
| 1  | <u>80</u>   | (S)         |
| 2  | <u>Knit</u> | <u>Knit</u> |
| 3  | <u>Knit</u> | <u>Knit</u> |
| 4  | <u>Knit</u> | <u>Knit</u> |
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| 6  | <u>Knit</u> | <u>Knit</u> |
| 7  | <u>Knit</u> | <u>Knit</u> |
| 8  | <u>Knit</u> | <u>Knit</u> |
| 9  | <u>Knit</u> | <u>Knit</u> |
| 10 | <u>Knit</u> | <u>Knit</u> |
| 11 | <u>Knit</u> | <u>Knit</u> |
| 12 | <u>Knit</u> | <u>Knit</u> |

### FEEDBACK ANALYSIS - Value Added Course on Mathematical Typesetting using LaTeX

The information given / skills taught were relevant and useful	The course was well-organised	The resource persons' delivery was clear and understandable	I would be interested in learning more about LaTeX and its other applications
5	5	5	5
4	5	3	3
5	5	5	5
4	4	5	4
5	3	5	5
5	5	5	3
5	5	5	5
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4	4	3	4
5	4	4	5
4	4	5	5
5	5	5	4
<b>4.58333</b>	<b>4.5</b>	<b>4.58333</b>	<b>4.25</b>

Note 1 - Strongly Disagree - 1 to Strongly Agree - 5

Note 2 - Strongly Disagree - 1 to Strongly Agree - 5

Note 3 - Strongly Disagree - 1 to Strongly Agree - 5

Note 4 - Strongly Disagree - 1 to Strongly Agree - 5

**Conclusion:** The participants strongly felt that the resource person's delivery was understandable. They also expressed interest in attending more workshops on LaTeX and other software. The information given was found to be relevant and useful.

