



**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**



**PI DAY**

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)

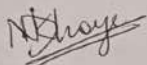
No: 357

Date: 12/03/2025

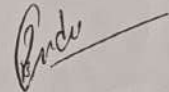
**NOTICE**

This is to inform all the faculty members that the Department of Mathematics is organizing a One - Day workshop on "CALCULUS USING SAGEMATH" as a part of Pi Day celebration for the T.Y.B.Sc.B.Ed & Fo.Y.B.Sc.B.Ed students (Mathematics) on Saturday 15<sup>th</sup> March 2025 from 09.30 am to 4.30 pm.

Venue: F3 Classroom



(Ms.Namrata Khorje)  
Incharge  
Department of Mathematics



(Dr.Pandurang Pandit)  
Officiating Principal





HARMAL PANCHAKROSHI SHIKSHAN MANDAL'S  
GANPAT PARSEKAR COLLEGE OF EDUCATION

15th March 2025

VIDYA SANKUL, BHOM PLATEAU - HARMAL - GOA  
(Affiliated to Goa University and Recognised by NCTE)  
(Recognised under section 2(f) of the UGC act 1956)

## DEPARTMENT OF MATHEMATICS

on the occasion of

# PI DAY

organises a one-day workshop on

# CALCULUS USING SAGEMATH

by

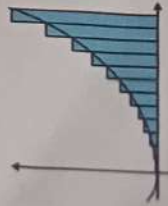
## DR. JERVIN ZEN LOBO

Assistant Professor of Mathematics  
St. Xavier's College - Mapusa

Ms. Namrata Khorje  
In-charge  
Department of Mathematics

Mr. Soham Ashvekar  
Coordinator

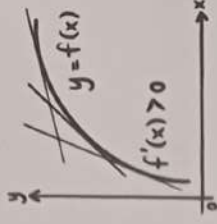
Dr. Pandurang Pandit  
Officiating Principal



$$\lim_{x \rightarrow 0} f(x)$$



$$\frac{dy}{dx}$$





**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

---

**Type of event:** Pi Day

**Date:** 15<sup>th</sup> March 2025

**Mode:** Offline Mode

**Venue:** Maths Classroom (F3)

**Time:** 9.30 AM to 4.30 PM

**Resource Person:** Dr. Jervin Zen Lobo

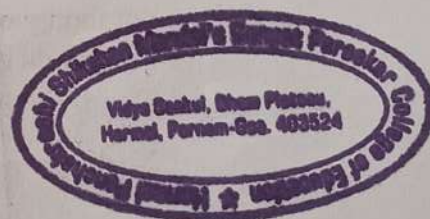
**Objectives of the events:**

- To create awareness about Pi Day.
- To expose students to various applications of “SAGEMATH” software.
- To help students understand and visualize various concepts of calculus graphically.

**Target Participants:**

- T. Y B. Sc B.Ed. (Mathematics)
- Fo. Y B. Sc B.Ed. (Mathematics)

**Organizing body:** Department of Mathematics



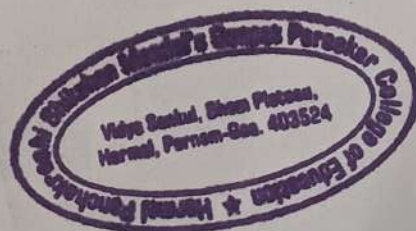
**Members of Organizing body:**

Sr. No	Name
1	Ms. Namrata Khorje (In-charge- Department of Mathematics)

2	Mr. Suraj Parmekar (Department of Mathematics)
3	Mr. Soham Ashvekar (Co-ordinator - Department of Mathematics)

### Details of the Program:

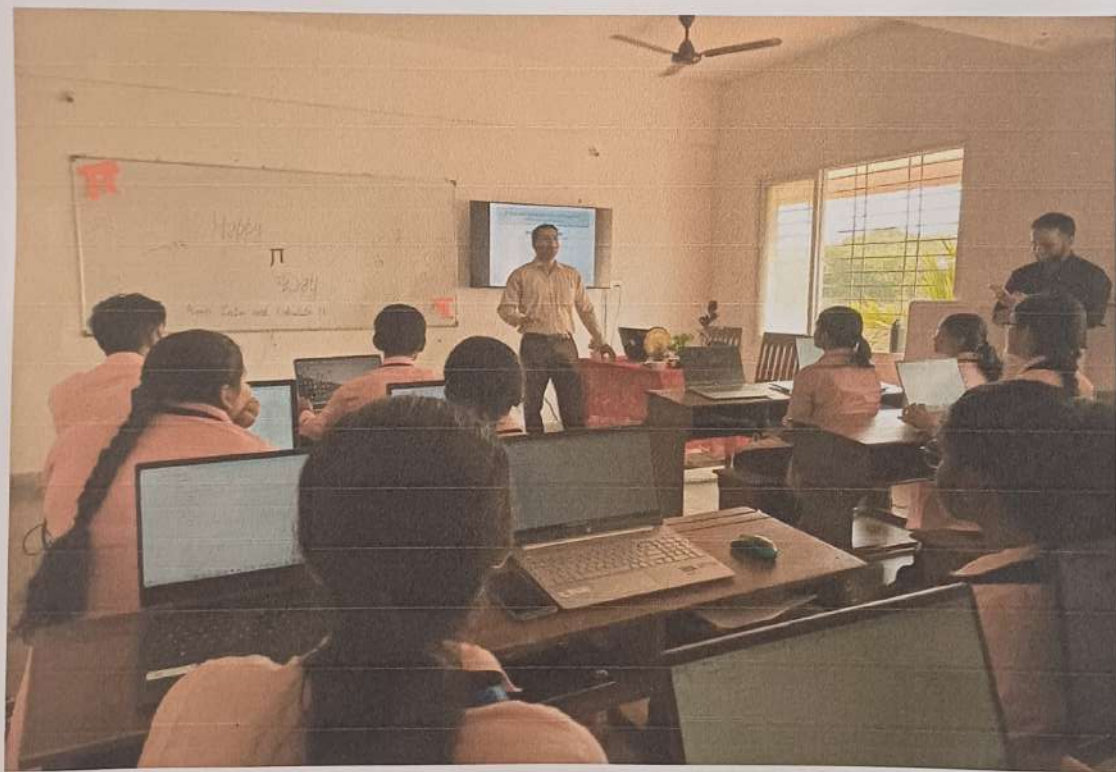
As a part of our Pi Day celebration, the Department of Mathematics organized a workshop on "SAGEMATH" for Mathematics students of T. Y B.Sc.B. Ed. and Fo.Y B. Sc.B. Ed. The workshop aimed to introduce important concepts of calculus in new broadlight using SAGEMATH software. The program commenced with formal welcome by Ms. Sweta Morajkar, followed by Mr. Suraj Parmekar introducing the esteemed speaker, Dr. Jervin Zen Lobo. The Principal then addressed the gathering, emphasizing the significance of the sagemath software and presented a memento to Dr. Jervin Zen Lobo. The workshop started with the introduction and installation to SAGEMATH by Dr. Lobo. He then explained basic operations and calculations on SAGEMATH calculator, followed by graphing, visualization and solving equations and inequalities. The workshop was well received by the participants, who showed enthusiasm and interest in learning sagemath. The four hands-on sessions of 1 and half hour each, helped participants to understand deeply the basics of sagemath and its application in understanding concepts of mathematics. Following the workshop, an interactive question and answer session allowed students to clarify their doubts and deepen their understanding. The workshop achieved its objectives and the participants expressed their desire to explore sagemath further in their academic pursuits. While concluding the workshop, two of the students Mr. Jitu Hulmani and Miss. Supriya gave their feedback with Jitu highlighting constant energy of Dr.Lobo throughout the day while making each concept interesting while Supriya talked about how engaging the workshop was. The event concluded with a formal vote of thanks delivered by Mr. Soham Ashvekar.





# Photographs:





(Mr. Soham Ashvekar)

Co-ordinator

(Ms. Namrata Khorje)

In-charge

(Dr. Pandurang Pandit)

Principal

Department of Mathematics





Harmal Panchakroshi Shikshan Mandal's  
**Ganpat Parsekar College of Education**

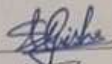

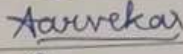
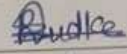
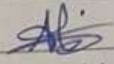
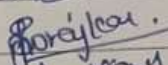
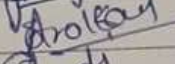
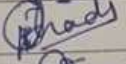
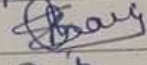
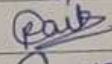
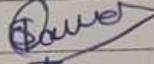

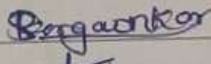
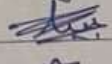

Vidya Sankul, Bhom Plateau, Harmal - Goa


Department of Mathematics

**One-Day Workshop on SageMath**

Date: 15-03-2025

Venue: Classroom F3

S.No.	Name	Roll No.	Signature
1	Grista V. Salgaonkar	2115020	
2	Ayusha R. Salgaonkar	2115019	
3	Anishka V. Narvekar	2115016	
4	Rupal S. Budke	2115002	
5	Ali Shaikh	2115022	
6	Sweta Morajkar	2115009	
7	Sweta Arolkar	2115001	
8	Rhushi Ghadi	2115007	
9	Sarniksha Chani	2115003	
10	Pritika Nait	2115010	
11	Supriya Gawas	2215005	
12	Jitu Hulmani	2215006	
13	Riya S. Korigaonkar	2215007	
14	Prerana Parab	2215010	
15	Prathamesh Gaware	2215004	

  
(Mr. Soham G. Ashrekar)  
Co-ordinator





# FEEDBACK ANALYSIS - ONE DAY WORKSHOP ON SAGEMATH

Timestamp	The resource person's delivery was clear and understandable.	The demonstrations of calculus concepts in SageMath helped me visualise abstract ideas more clearly.	The software is easy to use, and the syntax is intuitive for those familiar with Python programming.	I want to be a part of such workshops in the future.	Any suggestions.
3/27/2025 7:54:00	5	5	5	5	4
3/27/2025 7:55:27	5	5	5	5	5
3/27/2025 7:57:58	5	5	5	5	5
3/27/2025 7:58:57	5	5	5	5	5
3/27/2025 8:10:30	5	5	5	5	Will like to attend more of such type of workshop
3/27/2025 8:12:15	5	5	5	5	5
3/27/2025 8:42:26	5	5	5	5	5
3/27/2025 8:44:32	5	5	5	5	5
3/27/2025 9:53:14	5	5	5	5	No
3/27/2025 9:56:13	5	4	4	4	4
3/27/2025 9:57:44	5	5	5	5	5
3/27/2025 10:58:51	5	5	5	5	5
3/27/2025 11:36:28	5	5	5	5	5
3/27/2025 11:53:14	5	5	5	5	5
3/27/2025 15:39:58	5	5	5	4	5
3/27/2025 22:09:39	5	5	5	5	5
Average	5	4.9375	4.875	4.875	4.875
Conclusion	The students found the workshop extremely useful, claiming that the demonstrations enabled them to visualise abstract concepts. The resource person was clear in his delivery. Students also praised the ease of use of the software.				

