

# BIRPARA COLLEGE

( NAAC ACCREDITED )

P.O. Birpara, Dist. Alipurduar (W.B.)

PIN - 735 204

*(A Govt. Aided Degree College  
Affiliated to the University of  
North Bengal & Enlisted Under  
Sec. 2(f) & 12(B) of UGC. Act.)*



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Date .....

## EVENT COMPLETION REPORT ONE-DAY WORKSHOP ON "PI IN MATHEMATICAL RESEARCH: EXPLORING THE INFINITE POTENTIAL"

**Organized by:** Department of Mathematics, Birpara College

**Date of Event:** 14th March 2023

**No. of Students Participated:** 10

### Objective:

The workshop aimed to delve into the significance of PI ( $\pi$ ) in mathematical research, exploring its infinite potential across various mathematical domains. It sought to enhance students' understanding of this fundamental constant and how it shapes mathematical theories and applications.

### Event Overview:

The workshop was held on 14th March 2023 and was organized by the Department of Mathematics, Birpara College. The primary objective of the event was to provide students with an in-depth exploration of the number PI, its historical significance, and its applications in mathematical research.

### Sessions:

1. **Introduction to PI:** The session started with a brief introduction to the history and significance of the number PI, focusing on its discovery and its role in the development of mathematical theories.

*Kanstav Chakraborti*  
Principal  
Birpara College  
Birpara, Alipurduar

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2. **PI in Calculus and Geometry:** The importance of PI in geometry, particularly in the calculation of areas and volumes of geometric shapes, was discussed. The relationship between PI and various theorems in calculus was also explored.
3. **PI in Advanced Mathematical Research:** The workshop highlighted the role of PI in complex mathematical research, including its use in Fourier analysis, number theory, and mathematical physics. Practical examples from recent research papers were presented.
4. **Interactive Q&A Session:** Students actively participated in the interactive session, discussing the various challenges and intriguing concepts related to PI in modern mathematical research.

## Key Outcomes:

- Participants gained a deeper understanding of the significance of PI in various fields of mathematics.
- The workshop provided exposure to advanced mathematical research methods that involve PI.
- Students were encouraged to explore the applications of PI in real-world mathematical problems and research.

## Conclusion:

The workshop concluded successfully, with active participation and a high level of interest from the students. The event not only enriched their knowledge about PI but also motivated them to delve deeper into mathematical research

*Kanstav Chakraborti*  
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