

REPORT ON FIVE-DAY LECTURE SERIES ON FOUNDATIONS AND FRONTIERS OF MATHEMATICS

Organized by:

Department of P.G. Studies and Research in Mathematics,
Sharnbasva University, Kalaburagi

Date: 20th – 25th June 2025

Venue: Seminar Hall, Department of Mathematics

With the divine blessings of *His Holiness Vidya Bhandari* and under the patronage of revered dignitaries from the *Sharanabasaveshwara Samsthana* and *Sharnbasveshwar Vidya Vardhaka Sangha*, the Department of P.G. Studies and Research in Mathematics at Sharnbasva University successfully organized a five-day lecture series titled **“Foundations and Frontiers of Mathematics”** from **20th to 25th June 2025**.

Objectives:

The primary aim of this academic initiative was to bridge foundational mathematical principles with modern advancements and real-world applications, fostering academic enrichment among students and researchers.

Inauguration:

The series was inaugurated in the presence of:

- **Dr. Anilkumar Bidve**, Vice-Chancellor
- **Dr. Trimbak V. Biradar**, Convener and Dean of FST
- Other notable members of the advisory and organizing committees.

Sessions and Resource Persons:

Date	Topic	Resource Person	Session Chair
20-06-2025	Applications of Discrete Mathematics in Real Life	Dr. Gousia Begum, Govt. Women’s Degree College, Kalaburagi	Dr. Shreedevi Kalyan
21-06-2025	Quantitative Aptitude for Competitive Examination	Dr. Mahantesh S. Swamy, Govt. Autonomous College, Kalaburagi	Dr. Saraswathi A. H
22-06-2025	Mathematics: The Hidden Force Behind Human Advancement	Dr. Samrat Payad, B.V. Bhoomaraddi College, Bidar	Dr. Vishwas V. R. M
24-06-2025	Mental Wellness in the Modern World: Challenges and Strategies	Dr. Vaishali Kandagal, Shetty Homoeopathy Medical College	Dr. Mangala Kandagal
25-06-2025	Graph Theory and Network Science: Advances and Applications	Dr. Sana Aejaaz, KBN University, Kalaburagi	Mrs. Ashwini Patil
25-06-2025	<i>Online Talk:</i> Burn Injuries of Human Forearm – A Mathematical Study	Dr. Jitendra Singh, Banaras Hindu University	Dr. Trimbak V. Biradar

Highlights:

- The series included both **offline and online** sessions, engaging faculty, students, and research scholars.
- A diverse range of topics—blending pure mathematics, applied sciences, mental health, and computational theories—were covered.
- Each lecture was followed by an interactive Q&A session, encouraging student participation.

Acknowledgments:

The organizing committee extends heartfelt thanks to:

- The **honourable patrons** and **trustees** for their continued support,
- **Administrative and academic officials** of the university for smooth coordination,

- And all **resource persons** for their scholarly contributions.

Conclusion:

The lecture series achieved its goal of deepening mathematical insight and awareness. The Department intends to continue such academic events annually to encourage a culture of inquiry and intellectual growth.