



# SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING

(Deemed to be University)

Prasanthi Nilayam, Andhra Pradesh, India

## Detailed Report on the National Mathematics Week Celebrations at SSSIHL, 18– 24 December, 2023

### Objective of the Celebration:

- To commemorate the 136<sup>th</sup> birth anniversary of the great Indian mathematician Srinivasa Ramanujan
- To create awareness among students about the works of Ancient Indian Mathematics
- To create general awareness of Mathematics

### Key Events:

- 1) **National Level Mathematics Quiz:** Conducted a National Level Mathematics Quiz with 6 teams selected based on a qualifying round from 25 schools across India. The quiz was conducted by the research scholars of DMACS.
- 2) **Exhibition on Ancient Indian Mathematics:** The first and second-year undergraduate, as well as first-year postgraduate students at DMACS, Prasanthi Nilayam Campus, highlighted the accomplishments of Ancient Indian Mathematicians (before the 17th century AD) through an impressive array of models and displays. The showcased exhibits, curated by the students, delved into diverse subject areas, including Algebra (Bijaganitha), Geometry (Sulvasutra), Trigonometry (Suryasidhanta), Astronomy (Khagolshastra), Algorithms, Recreational Mathematics, and more.
- 3) **Talks by two Eminent Speakers on Ancient Indian Mathematics:**
  - a) **Prof. Arni S. R. Srinivasa Rao**, Distinguished Mathematician and Full Professor at the Medical College of Georgia, USA spoke on the topic "**Perspectives on Ancient Indian Mathematics**".
  - b) **Dr. Shriram Chauthaiwale**, a retired Lecturer from Amolakchand College, Yavatmal, affiliated with Amravati University in Maharashtra, and a recipient of the 10th Madhav Ganit Puraskar from Kerala for his contributions in the field of Ancient Indian Mathematics, spoke on "**Some Innovative Indian Contributions in Mathematics**".

- 4) **National Level Art Contest:** Organized a nationwide art contest with the support of Sri Sathya Sai Vidya Vahini, centered around the theme "Geometry in Nature" targeting the age group of 11 to 16 years. A total of 96 children from various regions of India participated, and three outstanding winners were chosen.
- 5) The 3rd year undergraduate students presented an interactive and informative seminar on the topics: Life history of Srinivasa Ramanujan, Vedic Mathematics, Magic Square, Taxi number, and Ramanujan's Prime number. This was followed by a presentation on the practical application of mathematics in our daily lives, by the postgraduate students. The session concluded with a vote of thanks, followed by prayers. Likewise, daily sessions were held for the rest of the week by the postgraduate students on topics related to mathematics and Ramanujan's works that gave a broader perspective on the different applications and roles of mathematics.

**Student Testimonial:**

*"The atmosphere at the inaugural celebration of National Mathematics Day 2023, focusing on ancient Indian mathematics, was filled with enthusiasm and scholarly curiosity. The event marked a significant effort to bring to light the often overlooked but profound contributions of ancient Indian mathematicians. Talks by eminent mathematicians on the same were very impressive. A key highlight was unveiling of a curated exhibition showcasing ancient artifacts related to Indian mathematics, highlighting the brilliance of luminaries such as Pingala, Brahmagupta, and Bhaskara.*

*The learning started a few days ago when we (students) were distributed materials to create the charts and models to be displayed at the exhibition. I was shocked to realize that our ancient Indians had contributed so much to the field of mathematics - Binary numbers, Fibonacci equations, and their solutions, geometry, and a lot more. Thus, the National Mathematics Day 2023 celebration laid the foundation for an ongoing journey of learning, discovery, and an appreciation for the rich mathematical heritage of ancient India." – Narsimha Murthy, 2nd B.Sc. (MCS)*