Event Activity Report

Academic Year   : 2025-26

School/Department Name   : School of Science (SOS)

Event Title   : Seminar on Vedic Mathematics

Theme   : Vedic Mathematics

Event Date   : 20th September, 2025

Time   : 11:00 AM to 12:30 PM

Duration in Days   : One Day

Mode of Conduction   : Offline

Level of Program   : School Level

Event Coordinator   : Prof. (Dr.) Renu P. Pathak

                                              Head Department of Mathematics

                                              School of Science (SOS)

                                              Miss Shailee Pandya,

                                              Professor, Department of English & Language

Participants   : Graduate Students

Exploring Vedic Mathematics: Ancient Insights for Modern Problem-Solving

Vedic Mathematics, an ancient Indian mathematical system, offers a unique approach to problem-solving, emphasizing mental calculations, logical reasoning, and efficiency. This seminar delves into the principles and applications of Vedic Mathematics, highlighting its relevance in modern times.

Key topics include-

- Basic Principles: Understanding the 16 sutras and their applications in arithmetic, algebra, geometry, and calculus

- Mental Calculations: Developing skills for rapid mental calculations and problem-solving

- Logical Reasoning: Enhancing logical reasoning and analytical thinking through Vedic Mathematics

- Modern Applications: Exploring the relevance of Vedic Mathematics in contemporary fields, such as science, technology, engineering, and mathematics (STEM)

The seminar aims to promote a deeper understanding of Vedic Mathematics, its historical significance, and its potential applications in modern problem-solving. By exploring the intersection of ancient wisdom and contemporary knowledge, participants can gain valuable insights into the power and versatility of Vedic Mathematics.

Vedic Mathematics is an ancient Indian mathematical system that emphasizes mental calculations, problem-solving, and logical reasoning. The term "Vedic" refers to the Vedas, ancient Indian texts that are considered the foundation of Hinduism. However, it's essential to note that the mathematical system itself was developed by **Jagadguru Swami Sri Bharati Krsna Tirthaji Maharaja** in the 20th century, and its connection to the Vedas is a topic of debate among scholars.

This system is based on 16 sutras or formulae that provide simple and efficient methods for solving mathematical problems, including arithmetic, algebra, geometry, and calculus.

Some of the key benefits of Vedic Mathematics include:

1) **Improved Mental Calculation Skills:** Vedic Mathematics emphasizes mental calculations, which can enhance cognitive abilities and build confidence in problem-solving.

2) **Efficient Problem-Solving:** The system provides shortcuts and tricks for solving mathematical problems quickly and accurately.

3) **Enhanced Logical Reasoning:** Vedic Mathematics encourages logical thinking and analytical skills, which can be beneficial in various areas of life.

The seminar hosted by the Centre for Indian Knowledge Systems (CIKS) and the Department of Mathematics, School of Science, aims to promote a deeper understanding of Vedic Mathematics and its applications in modern times. By exploring the principles and methods of Vedic Mathematics, participants can gain valuable insights into this ancient Indian mathematical system and its potential benefits for problem-solving and cognitive development.
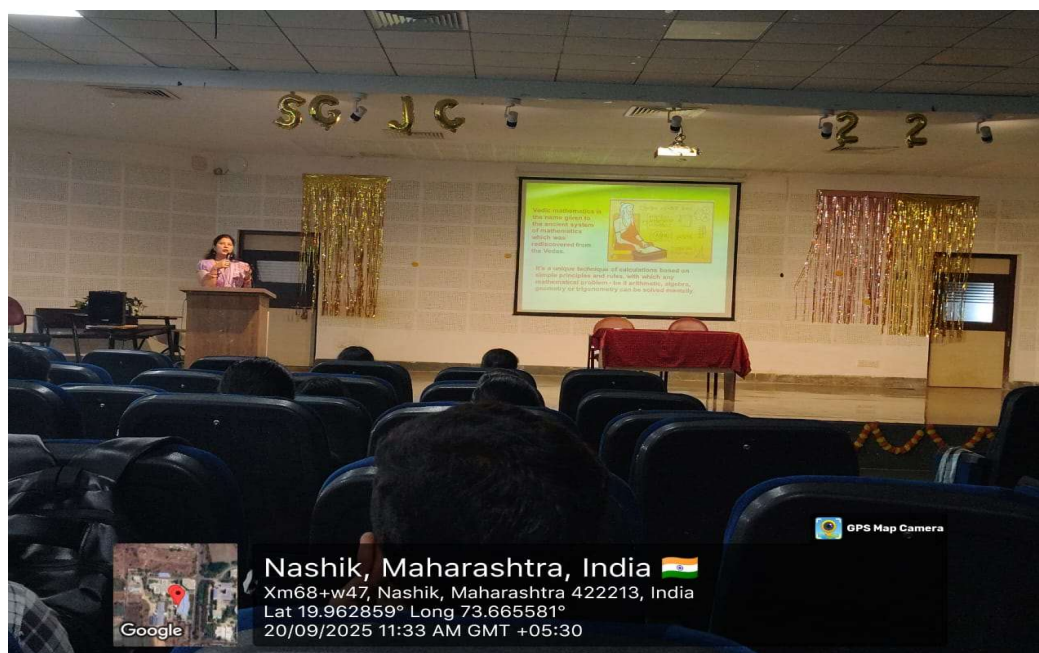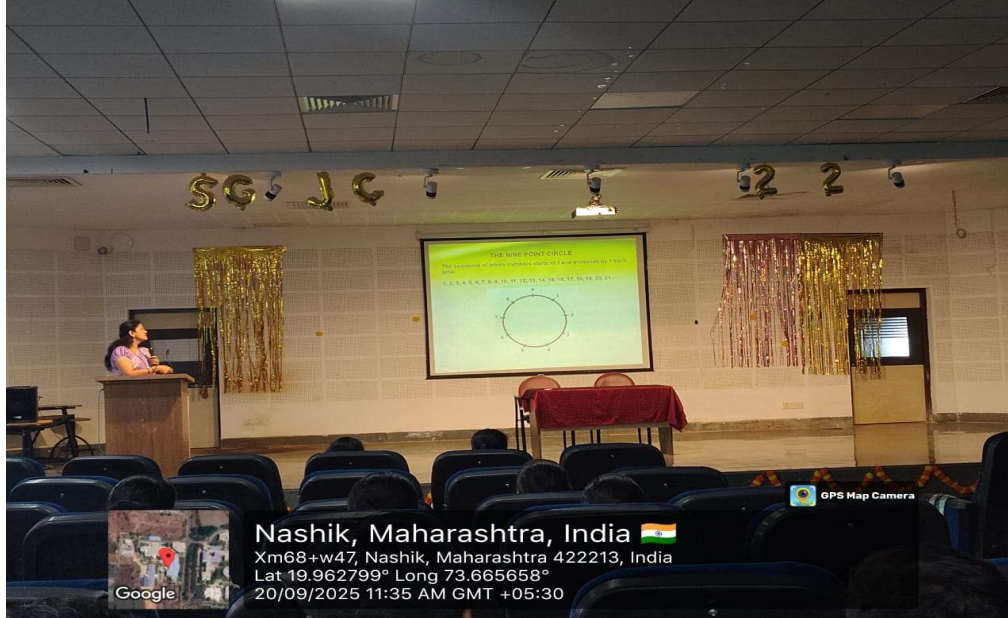
The Centre for Indian Knowledge Systems (CIKS), in collaboration with the Department of Mathematics, School of Science, successfully organized a Seminar on Vedic Mathematics on 20th September 2025.

The session featured the esteemed guest speaker, **Prof. (Dr.) Renu P. Pathak**, who delivered an engaging and thought-provoking presentation. She captivated the audience with her deep insights into the Vedic sutras, demonstrating how these ancient techniques not only simplify complex calculations but also enhance accuracy, speed, and mental agility.

The seminar drew active participation from faculty, research scholars, and students, who expressed great interest in exploring the practical applications of Vedic Mathematics in modern education and problem-solving. The interactive demonstrations by Prof. (Dr.) Renu P. Pathak made the session highly impactful, inspiring participants to integrate these techniques into their academic and professional pursuits.

The event concluded with an interactive Q&A session, during which participants appreciated the clarity and effectiveness of the ancient methods discussed. Overall, the seminar proved to be an enlightening experience, reaffirming the timeless relevance of India's mathematical heritage.

Dudgaon, Maharashtra, India
Xm68+w2, Dudgaon, Maharashtra 422213, India
Lat 19.962751° Long 73.665107°
20/09/25 11:26 AM GMT +05:30

Nashik, Maharashtra, India 🇮🇳
Xm68+w47, Nashik, Maharashtra 422213, India
Lat 19.962813° Long 73.66565°
20/09/2025 11:25 AM GMT +05:30
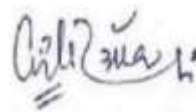
<u>Conclusion</u>

The Enduring Legacy of Vedic Mathematics. In our exploration of Vedic mathematics, we've journeyed through a system that's far more than just a collection of ancient tricks. We've seen how its sutras, or aphorisms, provide a simple, elegant, and intuitive approach to complex calculations. From the Vertically and Crosswise method for multiplication to by One More than the One Before for squaring numbers ending in 5, we've demonstrated that these techniques are not just fast, but they also foster a deeper understanding of number properties. A Bridge Between Ancient Wisdom and Modern Application. The true power of Vedic mathematics lies in its ability to simplify complexity.

By transforming multi-step problems into single-line mental calculations, it reduces the burden of rote memorization and encourages creative problem-solving. This isn't just about speed; it's about developing mental agility and a love for numbers. These principles have modern applications in various fields, from accelerating computational algorithms in computer science to enhancing mental arithmetic skills in students and professionals alike.

HoD
Dept of Mathematics

Associate Dean
School of Science