

Report of National Seminar On "International Day of Mathematics-2025" Theme: 'Mathematics, Arts and Creativity'

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A Report of

National Seminar

On

"International Day of Mathematics-2025" Theme: 'Mathematics, Arts and Creativity' (March 18, 2025) Organized By DEPARTMENT OF MATHEMATICS & STATISTICS

Integral University, Lucknow

"Mathematics is the language with which God has written the universe. - Galileo Galilei."

The Department of Mathematics & Statistics successfully organized a National Seminar on the occasion of the **International Day of Mathematics 2025**. The theme for this year, *Mathematics, Arts, and Creativity*, aimed to highlight the deep connection between mathematical concepts and artistic expression, showcasing the role of creativity in mathematical thinking.

The International Day of Mathematics (IDM) serves as a platform to elucidate and commemorate the crucial significance of mathematics and mathematics education in advancements in science and technology, enhancing the standard of living, empowering women and girls, and contributing to the attainment of the United Nations' Sustainable Development Goals. IDM is observed globally on March 14. The Executive Council of UNESCO endorsed the proclamation of March 14 as the International Day of Mathematics during the 40th session of the General Conference of UNESCO in November 2019. The first celebrations of the IDM took place on March 14, 2020, centered around the theme 'Mathematics is Everywhere'.

Prof. Mobin Ahmad, Head of the Department of Mathematics & Statistics at Integral University, Lucknow, commenced the program with a welcoming address. The individual extended a warm greeting to **Prof. Abdul Rahman Khan**, the COE and Dean of the Faculty of Science, **Prof. Wahajul Haq**, Dean R & D. In the address, He emphasized the significance of the International Day of Mathematics and this year's theme, *Mathematics, Arts, and Creativity*. He welcomed **Prof. Pradyumn Kumar Sahoo** and **Prof. Syed Abbas** and highlighted how mathematics is not just about numbers and equations but also a fundamental tool

in artistic expression, design, and innovation. Encouraging participants to explore the deep connections between mathematics and creativity, He expressed confidence that the seminar would provide valuable insights and inspire interdisciplinary thinking.



The first speaker, **Prof. Pradyumn Kumar Sahoo (BITS-Pilani Hyderabad)**, a distinguished expert in **Relativity and Cosmology**, delivered an insightful lecture on **Wormhole Geometry: A Mathematical Solution Can Reveal New Science** —a fascinating concept in physics and mathematics. He explained the mathematical foundations of wormholes, their theoretical existence as solutions to Einstein's field equations, and their potential role in interstellar travel. With a compelling blend of equations, visual models, and real-world analogies, the speaker captivated the audience, highlighting how mathematical concepts drive our understanding of space-time and the universe. The lecture sparked thought-provoking discussions, inspiring participants to explore the deep connections between mathematics, astrophysics, and futuristic possibilities.

The second speaker, **Prof. Syed Abbas (IIT Mandi, Himachal Pradesh)** an esteemed mathematician specializing in **Applied Mathematics**, delivered a fascinating lecture on Sheep distribution problems—a classic example of mathematical modeling in resource allocation and logistics. He discussed how mathematical principles, including optimization techniques, graph theory, and probability, can be applied to efficiently distribute sheep across grazing fields while considering factors like land constraints, food availability, and movement patterns. Using real-world case studies and mathematical simulations, the speaker demonstrated the broader applications of such problems in supply chain management, transportation, and ecological planning. The engaging lecture provided valuable insights into the practical power of mathematics in solving real-world distribution challenges.

The event was a great success because to the diligent efforts of **Prof. Mobin Ahmad**, the convener, **Dr. Najmuddin Ahmad**, **Dr. Mohammad Aamir Qayyoom**, **Dr. Ahteshamul Haq**, the coordinators, Dr. Nisha Khanam, the anchor, and the student volunteers.

The Vote of Thanks was delivered by Dr. Mohammad Aamir Qayyoom, who expressed heartfelt gratitude to all dignitaries, speakers, participants, and organizing committee members for making the seminar a success. He extended special appreciation to the distinguished speakers for their insightful lectures, which enriched the audience's understanding of the connections between mathematics, arts, and creativity. Concluding with a note of encouragement, He emphasized the importance of continued exploration in mathematics and its interdisciplinary applications. leaving the audience inspired and motivated.



Regards, **Prof. (Dr.) Mobin Ahmad** Professor & Head Department of Mathematics & Statistics Faculty of Science, Integral University Kursi Road, Lucknow (India) 226026 Mobile No.:+91-8318502827 Tel. No. 0522-2890812(Extn No.-3201) ORCID ID: https://orcid.org/0000-0002-4131-3391 Scopus Author ID: 55316407000