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Dept. of Statistics
MDU, Rohtak

Key Note Speaker
Dr. Ashutosh Sharma
Prof. of Mathematics
BMU, Rohtak

Key Note Speaker
Dr. Sachin Vashistha
Prof., Dept. of Mathematics
Hindu College
University of Delhi

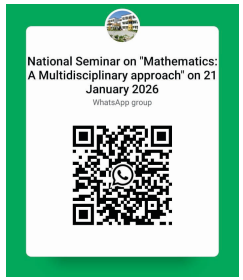
Guidelines for paper submission :

- Only Original & Unpublished.
- Abstract 150-200 words with 4-5 keywords.
- Full paper 1500-3500 words in word format.
- Font : Times New Roman (12Pt.), 1.5 line spacing.
- Title, Author (s), Name, Affiliation, State & E-mail ID are compulsory.
- The list of the Sub Themes is not exhaustive. Participants are free to choose any other topic of their choice which aligns with the main theme.

Registration Procedure :

Registration Link : **https://forms.gle/ofZYGkGVRw6MfLmr6**
Last Date of Registration : **06/01/2026**

Join Whatsapp Group using QR code :



In case of more than one author, each author has to register and pay fees separately.

Important Dates :

Last Date for Abstract Submission : **06/01/2026**
Last Date for Full Paper Submission : **12/01/2026**
Submit your paper at E-mail : **gcwjindseminar2026@gmail.com**

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Priyadarshini Indira Gandhi Govt. College for Women Jind

Affiliated to
Chaudhary Ranbir Singh University, Jind

ABOUT THE COLLEGE

Priyadarshini Indira Gandhi Government College for Women, situated at the heart of Haryana, Jind, is affiliated to Chaduhary Ranbir Singh University, Jind. The college has been accredited with grade A+ in PRAYAAS ,grade B in NAAC and recognised as one of the colleges of excellence by the government of Haryana. It was established by the Government of Haryana with the noble objective of imparting higher education to women at a time when there was no other government college for women in the entire district. The college commenced its functioning from the academic year 2005 with the strength of 500 students and 10 faculty members offering degree in Arts and Commerce, in the P.G block's building of Government College Jind. The college was shifted in its own building in 2012.

Presently, it has the strength of almost 2200 students and 79 teaching faculty members. The area of college is almost 28123 sq. metres. (4720sq metres. covered Ground Floor) 6.94 acres. The college has smart classrooms with Wi-Fi facility, library, a fully air conditioned auditorium . It currently offers under graduate and Post graduate programmes in Humanities, commerce and Science. It is also actively engaged in community outreach through its NSS, NCC wings and other cells like Women cell, Placement cell etc.

SEMINAR OBJECTIVES

- To encourage research and pedagogy that integrates Mathematics into other discipline in higher education.
- To explore recent advancements in various branches of Mathematics and provide a platform for sharing innovative research findings.
- To promote a multidisciplinary perspective by highlighting the interconnected role of Mathematics in science, technology, Economics, commerce, and daily life.
- To provide exposure to practical applications of Mathematics in fields such as data science, artificial intelligence, finance and computational modelling.
- To motivate young researchers and students to engage actively in mathematical inquiry, innovation, and higher studies.
- To facilitate intellectual interaction through keynote sessions, paper presentations, and workshops by eminent resource persons.

ABOUT THE SEMINAR

Mathematics is not an isolated discipline; it serves as a universal language that connects and supports multiple fields of knowledge. From science and engineering to economics, medicine, social sciences, and even the arts, mathematics provides tools for modelling, analysis, prediction, and problem-solving. A multidisciplinary approach highlights how mathematical concepts are applied across diverse domains to address complex real-world challenges. Far from being static relics of the past, these knowledge traditions are living frame- works that have continually adapted and influenced the world's intellectual landscape. In the current era of globalization and rapid technological advancement, there is a renewed need to revisit these systems, not merely as cultural heritage, but as dynamic and innovative frameworks capable of offering new perspectives to contemporary science, mathematics, and cultural thought. Ancient Indian mathematical achievements such as the invention of zero, the decimal place-value system, early algebraic methods, combinatory, and algorithmic thinking laid the groundwork for modern computing and data sciences. The sophisticated astronomical models of Aryabhata, Brahmagupta, and Bhaskara II demonstrated remarkable precision and logical reasoning, influencing the global scientific community. Similarly, traditional medical systems like Ayurveda and Yoga embody holistic approaches to health and wellness that are now being validated through modern clinical research and integrated into contemporary healthcare systems worldwide.

This seminar aims to explore these intersections of Indian cultural traditions, mathematical discoveries, and scientific thought, highlighting their enduring influence on global knowledge systems. By engaging with ancient texts, traditional practices, and their modern interpretations, the event seeks to foster meaningful dialogues among scholars, scientists, educators, and cultural practitioners. It will serve as a platform to rediscover, reinterpret, and integrate mathematics into contemporary educational curricula and research agendas.

Ultimately, the seminar aspires to cultivate a deeper understanding and appreciation of India's knowledge heritage, while envisioning pathways for its application in addressing the complex scientific and economic and cultural challenges.

SEMINAR SUB THEMES

Mathematics and Physical Sciences
- Mathematical modeling in Physics and Chemistry
- Differential equations in natural sciences
- Computational mathematics in scientific research
- Nonlinear dynamics and chaos theory
- Applications of linear algebra in quantum mechanics

Mathematics and Computer Science and Technology
- Algorithms and complexity theory
- Discrete mathematics and graph theory
- Cryptography and number theory
- Artificial intelligence and machine learning
- Data structures and mathematical logic

Mathematics, Statistics, and Data Science
- Probability theory and stochastic processes
- Big data analytics and statistical modeling
- Mathematical methods in data mining
- Bayesian statistics and predictive analytics
- Mathematical foundations of data science

Mathematics in Life Sciences and Medicine
- Mathematical biology and bioinformatics
- Epidemiological modeling and public health
- Biostatistics in clinical trials
- Mathematical models in neuroscience
- Systems biology and computational medicine

Mathematics in Economics, Finance, and Management
- Mathematical economics and econometrics
- Financial mathematics and risk analysis
- Game theory and decision sciences
- Operations research and supply chain management
- Optimization models in business analytics

Pure Mathematics and Interdisciplinary Connections
- Algebra, analysis, and topology with interdisciplinary applications
- Number theory and cryptographic applications
- Geometry and its applications
- Interactions between pure and applied mathematics
- Emerging trends in mathematical research

Bhartiya Knowledge System (BKS)
- Ancient Indian Mathematics
- Vedic Mathematics and Computational Techniques
- Geometry and Measurement in Indian Texts
- Indian Mathematical Astronomy (Jyotiṣa)
- Indian Knowledge System and Mathematical Modeling
- Mathematics in Indian Architecture and Engineering.

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