

NSCBM Government College, Hamirpur (HP)-177005

International Conference on “Advances in Mathematics and Applied Sciences (ICAMAS-2025)

27-28 March, 2025

A Brief Report of Conference

The Department of Mathematics of NSCBM Government College, Hamirpur (HP) organized an International Conference on “Advances in Mathematics and Applied Sciences (ICAMAS-2025) during 27-28 March, 2025. This conference was sponsored by the **Anusandhan National Research Foundation (ANRF), New Delhi; National Board for Higher Mathematics (NBHM) Mumbai** and **Defence Research and Development Organization (DRDO), New Delhi**.

The basic objective of the conference was to provide a platform for academicians, scientists, engineers and researchers to discuss the applications on Mathematics in Space Technology in particular and in Applied Sciences in general. The deliberations of the conference include the invited lectures by eminent Scientist/Mathematicians/Scholars from India & abroad and research paper presentation by the faculties of various universities, technical educational institutions & colleges and the young researchers relevant to the theme. This will provide an in-depth analysis of the subject and update the knowledge of the participants from academic/research institutions.

In the conference five speakers from abroad viz. Prof. G. P. Rao from UAE, Dr. Mikhail Markov from Mexico, Dr. Hazal Yuksekkaya from Turkey, Dr. Wubing Denga from China and Dr. Sunday Emmanuel FADUGBA from Nigeria delivered their talks. The Indian speakers were: Dr. Dinesh Khurana from Punjab University Chandigarh, Dr. Subhash Chandra Martha from IIT Ropar, Dr. Gajendra Pratap Singh & Dr. Ankit Chaudhary from JNU New Delhi, Prof. (Retd.) R. P. Sharma from HP University, Prof. K. L. Verma from CPU Hamirpur, Prof. R. K. Vats & Dr. Pawan K. Sharma from NIT Hamirpur, Prof. Rakesh Kumar from CUHP and Dr. Chandan Bhardwaj, Principal GC Majheen.

In all 220 participants from six countries, more than 15 states, various universities, IITs, NITs, and colleges took part in this International Conference. In all more than 200 research papers were received and only 23 quality papers were published in the conference proceedings with ISBN. 181 Research papers were presented in 21 parallel technical sessions in this conference. This was the 4th International conference/webinar organized by the Department of Mathematics.

This International Conference was inaugurated on 27th March, 2025 by **Dr. Dinesh Khurana** from Punjab University Chandigarh. **Dr. Pramod Singh Patial** worthy Principal of the college welcomed the Chief Guest and all the dignitaries. In his address he focused on the various academic activities performed by the department so far. **Dr. Sanjay Kango**, Convener/Conference Chair in his addressed focused on the objectives of the conference and also put a concept note about the academic activities of the department. **Dr. Poonam Sharma**, Organizing Secretary put conference concept note before the house. After this the Souvenir of the conference was released by the Chief Guest. **The Chief Guest** in his speech laid down the importance of Mathematics in research and daily life. He also appreciated the efforts of organizers and told that these types of academic activities provide opportunities to the students to learn more and more in the subject. The keynote address was delivered

by **Dr. Dinesh Khurana** on the topic An Introduction to Exchange Rings. The inaugural function came to an end with the vote of thanks by **Dr. Neelam Kumari**, the advisor of the Conference.

The first Invited Talk was delivered by **Prof. K. L. Verma** on the topic Advances in Discrete Mathematics: Sequences, Induction, Iteration and Recurrences.. The parallel Invited Talk was delivered by **Dr. Gajendra Pratap Singh** on the topic Machine Learning –Driven Reachability Trees in Petri Net Models.

The third online Invited Talk was delivered by **Prof. G. P. Rao** on Great Mathematical Progeny of Hindu Number System (HNS). The parallel online invited talk was delivered by **Dr. Sunday Emmanuel FADUGBA** on Solving the Black-Scholes Insurance Deposit Risk Model with the Reduced Differential Transform Method.

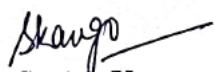
After post lunch session, the first invited talk was given by **Prof. R. P. Sharma** on Mathematical Heritage of Ancient Bharat. The parallel invited talk was delivered by **Dr. Ankit Chaudhary** on Metaheuristics based Steganography. The next online invited talk was delivered by **Dr. Hazal Yuksekkaya** on Mathematical Behaviors of solutions for the wave equation with delay term. The parallel online invited talk was delivered by **Dr. Wubing Denga** on The effects of temperature on wave attenuation in porous media. The next invited talk was delivered by **Dr. Pawan K. Sharma** on Model of Thermoelasticity-A Review. In the last 100 research papers were presented in 12 technical parallel sessions by various academicians and research scholars.

On the second day of the conference i.e. on **28th March, 2025** the first Invited Talk was delivered on online mode by **Dr. Mikhail Markov** on Propagation of elastic waves generated by an impulse source in a fluid-filled layer located between two poroelastic half-spaces. The second invited talk was delivered by **Dr. Chandan Bhardwaj** on Quantum Consciousness and the Illusion of Reality.

After a tea break the third Invited Talk of the day was delivered by **Prof. R. K. Vats** on the topic Fractional Stochastic Differential Equations: Qualitative Insights.

In the post-lunch session the first invited talk was delivered by **Prof. Rakesh Kumar** on Basic idea about the mathematical modeling of infectious diseases. After this 80 research papers were presented in 9 parallel technical sessions by various academicians and research scholars.

The last invited talk was delivered by **Dr. Subhash Chandra Martha** on Mathematical Techniques for solving some problems of water wave mechanics. He also acted as **Chief Guest** of the valedictory function. In the beginning **Dr. Pramod Singh Patial**, worthy Patron of the Conference welcomed the chief guest and all the dignitaries. **Dr. Sanjay Kango** the Convener of the conference also briefed about the conference. **Prof. Pawan Kumar**, the Organizing Secretary of the conference put the briefed report of the conference. The valedictory function ended with the vote of thanks by Dr. Neelam Kumari, advisor of the conference. It was followed by National Anthem.



Convener
ICAMAS-2025
(Dr. Sanjay K. Kango)



Principal
GC Hamirpur