NSCBM Government College, Hamirpur (HP)-177005

2nd International Conference on "Mathematics in Space and Applied Sciences (ICMSAS-2023)

3-4 March, 2023

Date:21-03-2023

A Brief Report of Conference

The Department of Mathematics of NSCBM Government College, Hamirpur (HP) organized 2nd International Conference on "Mathematics in Space and Applied Sciences (ICMSAS-2023) during 3-4 March, 2023. This conference was sponsored by the Ministry of Earth Sciences (MoES), Govt. of India, New Delhi.

The theme of this International Conference was very much relevant and important in National as well as International context. 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 this conference **Prof. G. P. Rao from UAE** and **Dr. S. K. Pal, Scientist DRDO, New Delhi** were keynote speakers and the other six invited speakers were **Dr. Hazal YÜKSEKKAYA from Turkey, Dr. Gajendra Pratap Singh** from JNU Delhi, **Prof. K. L. Verma** from Career Point University, Hamirpur (H.P.), **Prof. J. S. Dhiman** from Himachal Pradesh University, Shimla, **Dr. Pawan Kumar Sharma** and **Dr. Kuleep Kumar Sharma** from NIT Hamirpur (H.P.).

In all 209 participants from 3 countries, 10 states, 25 universities, 2 NITs, ISER Bhopal and 40 colleges took part in this International Conference. In all 182 research papers were received and only 45 quality papers were published in the conference proceedings. 169 Research papers were presented in 18 parallel technical sessions in this conference. This was the 3rd International conference/webinar organized by the Department of Mathematics & 4th of the college.

This International Conference was inaugurated on 3rd March, 2023 by **Er. Sunil Sharma,** Hon'ble Political Advisor to CM of Himachal Pradesh. **Dr. G. C. Rana** the Conference Chairman 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 of the conference put conference concept note before the house. After this the Souvenir of the conference was released by the Chief Guest. **Dr. Chandan Bhardwaj,** Patron of the conference and worthy Principal of the college in his pre-inaugural address said that No subject can grow at its own. The subjects are interconnected and every subject plays an important role in understanding as well as development of other subjects. Mathematics also plays a vital role Space Science and Applied Sciences. **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. After this a book written by Prof. G. P. Rao was released by the Chief Guest. The First keynote address was delivered by **Professor Ganti Prasada Rao from UAE** on the

topic The Conceptual Roots of the methods of Representation, Evaluation, Transformation, and Approximation (RETA), of entities of information as visible in the ancient Indian number system (INS) - A genetic perspective. The second keynote address was delivered by **Dr. S. K. Pal from DRDO** on the topic Secure Communication for Space Applications. The inaugural function came to an end with the vote of thanks by Prof. Rajesh Kumar, the coordinator of the Conference.

In post lunch session the academic proceedings started and the first Invited Talk was delivered by **Dr. Hazal YÜKSEKKAYA from Turkey** on the topic Blow up and Decay of Solutions for a Hyperbolic-Type Equation with Time-Delay. The second Invited Talk was delivered by **Dr. Gajendra Pratap Singh** from JNU Delhi on the topic Machine Learning using Binary Petri Nets.

After a tea break the third Invited Talk was delivered by **Prof. K. L. Verma** from Career Point University, Hamirpur (H.P.) on the On the Mathematics of the Anthropocene (Human Epoch). In the last 90 research papers were presented in 9 technical parallel sessions by various academicians and research scholars.

On the second day of the conference i.e. on **4th March, 2023** the first and second Invited Talks were delivered by **Dr. Pawan Kumar Sharma and Dr. Kuldeep Kumar Sharma** respectively from NIT Hamirpur (H.P.).

After a tea break the third Invited Talk of the day was delivered by **Prof. J. S. Dhiman** from Himachal Pradesh University, Shimla on the topic Unified Stability Analysis of Some Double-Diffusive Convection Problems.

In the post-lunch session 79 research papers were presented in 9 parallel technical sessions by various academicians and research scholars.

In the valedictory **Dr. H. S. Jamwal**, Retd. Principal and renowned Mathematician was the Chief Guest. In the beginning **Dr. G. C. Rana** the Conference Chairman welcomed the chief guest and all the dignitaries. **Dr. Sanjay Kango** the Convener of the conference put a brief report of two days academic activities before the house. **Dr. Chandan Bhardwaj** the Patron of the conference and Principal of the college in his pre-valedictory address congratulated all the faculties of the department of Mathematics for this achievement. He also motivated the faculties of all Departments to organize such academic activities and the students to take part actively. **The Chief Guest** being mathematician in his address elaborated the importance of the conference in details. He encouraged the organizers and said that the seminars, conferences and workshops should be organized in colleges so that the students before entering in the University education can acquaint themselves with research. The valedictory function ended with the vote of thanks.

Convener
(Dr. S. K. Kango)

Principal
NSCBM Government College,
Hamirpur (H.P.)-177005