



International Conference on

Mathematical & Statistical Modeling in Innovative Areas

23rd and 24th August, 2025



Organised by:

Department of Mathematics,
Adarsh College, Rajdhanwar

Sponsored by:

Jharkhand State Higher Education Council Department of Higher and Technical
Education, Govt. of Jharkhand

Presentation Schedule – Technical Session

Session Chairperson: **Dr. Rakesh Bhatia**
Co-Chairperson: **Dr. B. K. Vishwakarma**
Rapporteur: **Sri. Manohar Thakur**

Date: 24 August 2025
Time: **02:00 pm – 04:00 pm**
Venue: **Room No- 101**
Time Allotted: 08 min Presentation +
02 min Q&A

| Sl. No. | Name of Delegate | Title of Paper |
|---------|--|---|
| 1 | Abhishek Kumar, Ravi Kumar Burman, Basumati Munda | Impact of Swachh Bharat Mission Toilets on Rural Women's Health and Safety in Jharkhand: A Data Science Approach |
| 2 | Srishti Singh, Md. Mushtaque Khan, Jai Prakash | New Results in Operator Theory and their Applications |
| 3 | Ayub Khan, Ajeet Singh, Pardeep Kumar, Dhanpal Singh | Adaptive Suppression of Chaotic Tumor Growth via Fractional Dynamics and Intelligent PSO-Based Control |
| 4 | Ankit Kumar, Anil Kumar Sinha, Khusboo Mishra and B. K. Mishra | Towards a Secure E-Commerce Ecosystem: A Data-Driven Study of Web Security Models Using Machine Learning" |
| 5 | Hemant Kumar Mishra | System of the Sun-Mercury and the nearby Halo orbits |
| 6 | Abhishek Kumar, Ravi Kumar Burman, Shweta Bharti | Predicting Waterborne Related Diseases in Rural Jharkhand Using Machine Learning Until 2030 |
| 7 | Arjun Kumar | Floyd-Warshall Algorithm and Their Application to Find the Shortest Route for Transportation Network in Jharkhand |
| 8 | Ritesh Kumar, Anil Kumar Barnwal | Basic & Overview of the Astrophysics with Scientific modeling |
| 9 | B. N. Yadav and R. K. Das | Fuzzy numbers and fuzzy real line structure |
| 10 | Santosh Kumar Mishra, Ashok Kumar | Impact of Eccentricity on Equilibrium Solutions in the Restricted Three-Body Problem |
| 11 | Shree Kant Singh, Ashok Kumar, Jai Prakash | Local Riemann Hypothesis for Zeta Functions of Algebraic Varieties |
| 12 | Govind Kumar Jha, Shilpa Kumari, Sarita Jha | Re-Investigation of Attracting Domain of some mathematical models |
| 13 | Satyendra Kumar Satya, Govind Kumar Jha, Sarita Jha, Ragini | Some properties on symmetric intervals |

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| 14 | Manoj Kumar, Md. Mushtaque Khan | Stable Sets in Fuzzy Stochastic Games: A Mathematical Analysis |
| 15 | Ragini | Mathematical structures and applications of interval arithmetic |
| 16 | Awanish Kumar, Pinky Pandey | Modeling Inventory Dynamics with Price-Sensitive Demand and Deferred Payments: A MATLAB-Based Approach |
| 17 | Abhishek Kumar, Ravi Kumar Burman, Shashi Kumari | Assessing Groundwater Depletion in Patratu Block, Ramgarh, Jharkhand: A Machine Learning Approach |
| 18 | Ankur Saurav and Chandra Shekhar | An Optimal Eco-Conscious Approach to Uncertain Inventory Control for Green Products with Carbon Constraints |
| 19 | Anjna Ekka, Pinky Pandey | Construction of Triangular Design by Group Divisible Design |
| 20 | Jitendra Kumar, P K Manjhi | Combinatorial properties of the Difference Set with respect to CPHMs of row sum 0 and 2 |
| 21 | Mithilesh Kumar Mishra | Heat and mass transfer on mhd rotating flow of a couple stress fluid through a porous medium with time dependent oscillatory permeability |
| 22 | P.K. Manjhi and Deepa Bharti | A Comprehensive Overview of the Properties and Application of Conference Matrix |