



**2<sup>nd</sup> INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MATHEMATICS**

**ICRTM - 2025**

**February 7-8, 2025**

**ONLINE PAPER PRESENTATION SCHEDULE**

**DAY 1 (07.02.2025)**

**TIMINGS: (2:00-5:00 PM)**

**Group 1**

**Session Chair: Prof. Pragati Gautam**

**Session Co-Chair: Dr. Sundar Lal**

**Student Coordinators: Mr. Rachit**

**Google Meet Link : <https://meet.google.com/rug-awuf-hgo>**

| S.No. | Name          | Paper ID  | Institution                                                                     | Title                                                                                                      |
|-------|---------------|-----------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1.    | Bamadev Sahoo | ICRTM_B02 | Siksha 'O' Anusandhan (deemed to be University), Bhubaneswar , Odisha           | Exact solutions for the Schamel Burgers' Equation with force term by using the Kudryashov Expansion Method |
| 2.    | Amit Kumar    | ICRTM_B03 | SRM Institute of Science and Technology, NCR-Delhi Campus, Modinagar, Ghaziabad | Exploring Carbon Emission Reduction through Additive Manufacturing in EPQ Models                           |
| 3.    | Arnab Mapui   | ICRTM_B05 | Indian Institute of Technology (BHU), Varanasi                                  | Lyapunov-like conditions for prescribed-time stability of perturbed impulsive systems                      |

|     |                |           |                                                                                       |                                                                                                                                |
|-----|----------------|-----------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 4.  | Komal Tanwar   | ICRTM_B07 | Central University of Rajasthan                                                       | Heterogeneous population and its resilience to misinformation in vaccination uptake: A dual ODE and network approach           |
| 5.  | Surbhi Sharma  | ICRTM_B08 | Department of Mathematics, University of Rajasthan Jaipur                             | Numerical Simulation for MHD Casson Fluid Flow With Heat Transfer In a Porous Medium Over a Curved Surface                     |
| 6.  | Komal Thakran  | ICRTM_B13 | K.R. Mangalam University, Gurugram, Haryana, India                                    | Numerical study of wave induced fluctuations and their impact on the Visakhapatnam port using the hybrid element method        |
| 7.  | Songita Boruah | ICRTM_B15 | Assistant Professor, Department of Mathematics, DKD College, Dergaon, Golaghat, Assam | Application of Trace Theorem on numerical solution of three- parameter eigenvalue problems                                     |
| 8.  | Sachit Kumar   | ICRTM_B26 | Lovely professional University Punjab                                                 | Analysis of fractional perspectives for time fractional Cold Plasma Equations                                                  |
| 9.  | Sukhen kumar   | ICRTM_B34 | GD Goenka University Gurgaon                                                          | Mathematical Analysis of Non - Newtonian Nanofluid Flow over Linear Stretching surface                                         |
| 10. | Meenu          | ICRTM_B37 | PDUS University, Sikar                                                                | Topic-Fractional Differential Equations Involving Generalized Class of Special Function                                        |
| 11. | Deepti         | ICRTM_B38 | Shivaji College (DU), Raja Garden, New Delhi                                          | Analytical solutions to MHD flow model across an inclined channel with induced magnetic field and radiation absorption effect  |
| 12. | Anuj Kumar     | ICRTM_B39 | Shri Vankhadeshwar University Gajraula/Mahamaya Government Degree College, Sherkot    | TB-mBJ-Density Functional Theory Calculations of Structure, electronic, and Magnetism in Cation-Substituted $ZnMn_xGe(1-x)P_2$ |

|     |                            |           |                                      |                                                                                                                                               |
|-----|----------------------------|-----------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 13. | Lakshmi Rani Basumatary    | ICRTM_B43 | Assistant Professor                  | Numerical Solutions of Navier-Stokes equations with slip boundary conditions using Finite Volume Scheme.                                      |
| 14. | Brijendra Kumar Chaurasiya | ICRTM_B52 | VIT - AP University                  | Existence of Positive Solutions for Nonlinear Fractional Differential Equations with Integral Boundary Conditions and State-Dependent Delays. |
| 15. | Jyoti Rajkumar Kumawat     | ICRTM_B55 | Veer Narmad South Gujarat University | Observe the Time Actions onto Enzyme - Substrate Reaction under the influence of Non - Competitive inhibitors via Simulation.                 |

## Group 2

**Session Chair: Dr. Pankaj Kumar**

**Session Co-Chair: Dr. Ram Pratap**

**Student Coordinators: Ms. Khyati**

**Google Meet Link : <https://meet.google.com/wmx-yacw-sqi>**

| S.N o. | Name           | Paper ID  | Institution                                       | Title                                                                                                              |
|--------|----------------|-----------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1.     | Ambika N       | ICRTM_B56 | AJIET Mangalore                                   | Recent developments in Laplace transforms for the generalized hypergeometric functions $2F_2$ and $3F_3$           |
| 2.     | Alisha Banz    | ICRTM_B61 | SVKM's Dwarkadas J Sanghvi College of Engineering | Investigating the relationship between the Economic and Environmental Mobility Indicators for developing countries |
| 3.     | Jitendra Barik | ICRTM_B65 | Siksha 'O' Anusandhan University, Bhubaneswar     | Thermal radiation effect on MHD nanofluid flow with viscous dissipation and chemical reaction                      |

|     |                    |            |                                                                                             |                                                                                                                                                                   |
|-----|--------------------|------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.  | Parvin Kumari      | ICRTM_B68  | Manipal University ,Jaipur                                                                  | An efficient numerical method for resolving a system of singularly perturbed differential-difference equations in physiology and biology                          |
| 5.  | Mustapha Bouallala | ICRTM_B70  | Cadi Ayyad University                                                                       | Modeling and Iterative Method for a New Unilateral Contact Problem with Tresca Friction in Thermoelasticity.                                                      |
| 6.  | Priyabrata Sethy   | ICRTM_B72  | Centre for Data Science, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha | "Heat Transport Optimization in a Hybrid Nano Liquid-Filled Square Chamber with a Heated Circular Obstacle Under Lorentz Force for Advanced Thermal Applications" |
| 7.  | Anshu              | ICRTM_B83  | Maharshi Dayanand University, Rohtak                                                        | Economic and Sensitivity Analysis through a Stochastic Model for Single-Unit System under Pro-rata Warranty                                                       |
| 8.  | Kaberi Parida      | ICRTM_B84  | Research scholar , SOA University                                                           | Exploring Stability and Bifurcation in a Prey Predator Model with Mutual Interference                                                                             |
| 9.  | Nisha Sharma       | ICRTM_B98  | Amity Institute of Applied Sciences                                                         | An epidemic-economic mathematical model to assess the economic effect of epidemic diseases                                                                        |
| 10. | Pradeep            | ICRTM_B104 | GD Goenka University Gurugram                                                               | Consequence of melting heat and mass transfer over nanofluid past over a stretching surface using FEM                                                             |
| 11. | Pari Sharma        | ICRTM_B105 | NMIMS, Mukesh Patel School of Technology Management and Engineering                         | Graph Theory for Robotic Tactile Maps for the Visually Impaired                                                                                                   |
| 12. | Sonia Aneja        | ICRTM_B109 | Mata Sundri College for Women, University of Delhi                                          | To study the relativistic effect in the perturbed circular restricted three-body problem                                                                          |

|     |                  |            |                                                              |                                                                                                                                                                                                                                                         |
|-----|------------------|------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. | Rekha Devi       | ICRTM_B110 | Government College<br>Jhandutta, District<br>Bilaspur (H.P.) | Effects of Thermal Radiation and Mixed Convection on MHD Tri-Hybrid (Copper Oxide (CuO), Alumina ( $\text{Al}_2\text{O}_3$ ), and Magnetite ( $\text{Fe}_3\text{O}_4$ )) Nanofluid Flow towards a Stagnation Point on an Exponentially Stretching Sheet |
| 14. | Mohd Ashraf Bhat | ICRTM_B10  | IIT Ropar                                                    | A Generalized Rearrangement Theorem and Its Applications                                                                                                                                                                                                |
| 15. | Sahil            | ICRTM_B23  | IIT Indore                                                   | Ramanujan sums in signal recovery and uncertainty principle inequalities                                                                                                                                                                                |

### Group 3

Session Chair: Prof. Manoj Kumar

Session Co-Chair: Dr. Gurudatt Rao

Student Coordinators: Ms. Varsha

Google Meet Link : <https://meet.google.com/jdp-ehcv-vep>

| S.N o. | Name          | Paper ID  | Institution                                           | Title                                                                                                                       |
|--------|---------------|-----------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1.     | Akansha Tyagi | ICRTM_B29 | University of Delhi                                   | Fixed Point Approximation with the AT Algorithm: Convergence Analysis for Nonexpansive Mappings and Real-World Applications |
| 2.     | Durgesh Kumar | ICRTM_B31 | Motilal Nehru College ,<br>University Of Delhi ,Delhi | On Cellular - Hurewicz Spaces                                                                                               |
| 3.     | Swapnil Verma | ICRTM_B32 | Assistant Professor,<br>Kamala Nehru College          | A new type of fixed point theorem via interpolation on rectangular quasi- partial b-metric space                            |
| 4.     | Reena         | ICRTM_B42 | Amity University Manesar<br>Haryana                   | Characterization of Nonuniform Wavelets in Sobolev Spaces                                                                   |

|     |                 |           |                                                                                                                             |                                                                                     |
|-----|-----------------|-----------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 5.  | Mamta Amol Wagh | ICRTM_B45 | Deen Dayal Upadhyaya College, University Of Delhi                                                                           | Analysing Biocomplex Matrices In Mathematica                                        |
| 6.  | Satish Kumar    | ICRTM_B50 | PGDAV College, University of Delhi                                                                                          | A Topological Approach to the extended mixed vector equilibrium problem             |
| 7.  | Kamal Gautam    | ICRTM_B53 | Shoolini University                                                                                                         | Application of Fuzzy Multi-Criteria Decision Making in SMEs: A Systematic Approach  |
| 8.  | Jayanta Das     | ICRTM_B54 | Raiganj University                                                                                                          | An approach to find some new fixed point theorems in 2-normed space                 |
| 9.  | Neeru Sharma    | ICRTM_B57 | Bhaskaracharya college of Applied Sciences, University of Delhi                                                             | Extended Versions of a-weyl's theorem and generalised a-Weyl's theorem              |
| 10. | Gurpreet Kaur   | ICRTM_B63 | Mata Sundri College for Women                                                                                               | Radius Problems for Ratios of Analytic Functions                                    |
| 11. | B Ramani        | ICRTM_B64 | Assistant Professor                                                                                                         | Topological Indices on Generalization of Abid Waheed Graphs and its Applications    |
| 12. | Jyoti Jhade     | ICRTM_B66 | Research Scholar, Department of Mathematics, Institute for Excellence in Higher Education, Bhopal – 462016, Madhya Pradesh. | Generalized Fixed-Point Theorem for Multi-Term Contraction in Digital Metric Spaces |
| 13. | Shahadat Ali    | ICRTM_B67 | Department of Mathematics, University of Kashmir, South campus Ananthnag 192101, Jammu and Kashmir                          | Inequalities Concerning the Generalized Polar Derivative of a Polynomial.           |
| 14. | Kartik Garg     | ICRTM_B69 | University of Delhi                                                                                                         | Riesz MRA and corresponding Reisz Wavelet on Local Field of Positive Characteristic |

|     |                |           |                  |                                                                                                                                                                     |
|-----|----------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. | Priyanka Sahni | ICRTM_B76 | Maitreyi College | A note on $(s, q, \phi, F)$ -g-weak contraction and some related improved results on fixed points of such type of contractions in various generalized metric spaces |
|-----|----------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Group 4

Session Chair: Dr. O. P. Meena

Session Co-Chair: Dr. Mukesh Kumar

Student Coordinators: Ms. Simran

Google Meet Link : <https://meet.google.com/vjr-jpju-ifg>

| S.N<br>o. | Name             | Paper ID  | Institution                                                                 | Title                                                                                                              |
|-----------|------------------|-----------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1.        | Vipul Singh      | ICRTM_B78 | Department of Mathematics, University of Allahabad, Prayagraj-211002, India | Radical Transversal Screen Slant Lightlike Submersions from Indefinite Sasakian Manifolds onto Lightlike Manifolds |
| 2.        | Shwetha S Shetty | ICRTM_B79 | Visvesvaraya Technological University, Belgaum, India.                      | On Certain Definite Integrals Involving Logarithmic Powers and Generalized Hypergeometric functions                |
| 3.        | Babli Yadav      | ICRTM_B81 | Birla Institute of Technology and Science                                   | Riemann Mapping Theorem with Fractional Derivative                                                                 |
| 4.        | Sima Roy         | ICRTM_B86 | Raja Rammohun Roy Mahavidyalaya                                             | Fréchet-Urysohn spaces with respect to ideals                                                                      |
| 5.        | Ria Sharma       | ICRTM_B94 | Baddi University of Emerging Science and Technology                         | Common Fixed Point Theorems for Hardy Rodger's and Zamfirescu Contraction Mappings in Parametric Metric Space      |

|     |                         |            |                                                                                           |                                                                                                                                                     |
|-----|-------------------------|------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.  | Bhupesh Marotrao Mude   | ICRTM_B102 | Ramnarain Ruia Autonomous College, Matunga, Mumbai -19                                    | An Interacting Dark-Sector Multi-Fluid Theory and Cosmology Approach Using Convective Variational Methods                                           |
| 7.  | Shital Manoharrao Wabhe | ICRTM_B103 | Vidya Bharati Mahavidyalaya ,Camp Amravati 444601                                         | An Interacting Dark-Sector Multi-Fluid Theory and Cosmology Approach Using Convective Variational Methods                                           |
| 8.  | Supriya Rajendran       | ICRTM_B107 | Department of Mathematics, School of Physical Science, Amrita Vishwa Vidyapeetham, Kochi. | Exploring the Detour Eccentric Sum: Theoretical Foundations and Practical Applications                                                              |
| 9.  | Mohammed Abdelmalek     | ICRTM_B108 | Higher school of management of Tlemcen                                                    | Some geometric results for Newton transformations                                                                                                   |
| 10. | Ashutosh Pandey         | ICRTM_B112 | Sri Venkateswara College                                                                  | Polyharmonic and mixed boundary value problems on the upper half-space in $H_n$                                                                     |
| 11. | Sanyam Gupta            | ICRTM_B36  | Delhi Technological University                                                            | Finding Job Sequencing Problem Solution using Machine learning                                                                                      |
| 12. | Anshu Khurana           | ICRTM_B44  | IP University                                                                             | Integration of Explainable AI (XAI) Techniques into Energy Prediction Systems                                                                       |
| 13. | Hemlata Pande           | ICRTM_B49  | S.S.J. University, Pt. B. D. Pandey Campus Bageshwar                                      | Applications of Mathematical methods to analyze the advance of research allied to artificial intelligence during the period of last quarter century |
| 14. | Devangam Bangaru Rajesh | ICRTM_B74  | VIT-AP University                                                                         | Transformers in Recommender Systems: A comprehensive review                                                                                         |
| 15. | Priyanka                | ICRTM_B58  | Chandigarh Group of Colleges, Landran                                                     | A Comprehensive Cryptography: Introducing Closure ideas and Solvability Equations                                                                   |



## Group 5

**Session Chair: Dr. Mukund Madhav Mishra**

**Session Co-Chair: Dr. Raksha Verma**

**Student Coordinators: Ms. Nisha**

**Google Meet Link : <https://meet.google.com/iqk-gera-nhz>**

| S.N<br>o. | Name              | Paper ID  | Institution                                                          | Title                                                                                                             |
|-----------|-------------------|-----------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1.        | Bhavna Mahant     | ICRTM_B09 | Jaypee University of Information Technology Solan (Himachal Pradesh) | A Hybrid Neutrosophic Picture Fuzzy Matrix Approach to Encryption and Decryption in the El-Gamal Cryptosystem     |
| 2.        | naresh singh      | ICRTM_B14 | Amity University Rajasthan                                           | Image Compression Techniques- A Comprehensive Review of Image Encryption and Decryption Methods in Spatial Domain |
| 3.        | Ankita Sharma     | ICRTM_B18 | Shri Jagdish Prashad Jhabarmal Tibrewala University, Jhunjhunu       | Use of Vedic Mathematics to find Osculators for Prime Number                                                      |
| 4.        | Ruchi Narang      | ICRTM_B24 | Government College Karsog Distt. Mandi (H.P.)                        | DNA Code based Encryption using Bisymmetric Rhotrix and Elliptic Curve Cryptography                               |
| 5.        | Dr.Sarita Agarwal | ICRTM_B41 | Acharya Narendra Dev College, University of Delhi                    | Application of Vedic Sutras-I                                                                                     |
| 6.        | Priyanka          | ICRTM_B58 | Chandigarh Group of Colleges, Landran                                | A Comprehensive Cryptography: Introducing Closure ideas and Solvability Equations                                 |
| 7.        | Ajay Dabral       | ICRTM_B80 | Department of Mathematics, University of Delhi                       | Exploring Reductions Between Lattice Problems and Other Computationally Hard Problems                             |

|     |                      |           |                                                                                                            |                                                                                                                                          |
|-----|----------------------|-----------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 8.  | Pratiksha<br>sharwan | ICRTM_B87 | Central University of<br>Himachal Pradesh                                                                  | A Study on Quantum Image<br>Encryption in IoT                                                                                            |
| 9.  | Aakanksha<br>Thakur  | ICRTM_B88 | Central University of<br>Himachal Pradesh                                                                  | A Scientometric Analysis of<br>Quantum Error Correction in<br>Machine Learning                                                           |
| 10. | Manish               | ICRTM_B91 | Central University of<br>Himachal Pradesh                                                                  | A scientometric analysis of<br>quantum digital signature<br>publications from 2014 to<br>2024                                            |
| 11. | Rahul Kumar          | ICRTM_B11 | Department of<br>Mathematics, Shaheed<br>Mangal Pandey<br>Government Girls P.G.<br>College, Meerut, India. | Impact of greening level on an<br>EPQ model under<br>consideration of<br>customer-based credit policy<br>and preservation technology     |
| 12. | Himani<br>Chaudhary  | ICRTM_B16 | Banasthali Vidyapith,<br>Newai, Rajasthan                                                                  | Integrating Quantum Network<br>Optimization into Queueing<br>and Scheduling Models for<br>Cloud Computing<br>Environments                |
| 13. | Alok Kumar           | ICRTM_B17 | Graphic Era Deemed to be<br>University Dehradun<br>Uttarakhand                                             | EPQ model with and without<br>carbon emission effects,two<br>warehouse,trade credit policy<br>and advertisement dependent<br>demand rate |
| 14. | Rajpal Rajbhar       | ICRTM_B20 | ARSD College                                                                                               | Investigation of Single and<br>Multi-objective Transportation<br>Problem                                                                 |
| 15. | Umesh Kumari         | ICRTM_B21 | Daulat Ram College,<br>University of Delhi                                                                 | Parametric Analysis of a<br>Machine Repair Model with<br>Impatient, Feedback, and a<br>Vacationing Server                                |

## Group 6

Session Chair: Ms. Amita Aggarwal

Session Co-Chair: Dr. K. R. Meena

Student Coordinators: Ms. Niyati

Google Meet Link : <https://meet.google.com/rei-rmfk-hap>

| S.N<br>o. | Name               | Paper ID  | Institution                                                                                                          | Title                                                                                                                                              |
|-----------|--------------------|-----------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.        | Prachi Jain        | ICRTM_B25 | ABES Engineering College                                                                                             | Comparative Analysis of Grid Optimization Strategies Using Multi-Criteria Decision-Making Techniques                                               |
| 2.        | Neha Rani          | ICRTM_B27 | Uttaranchal University, Dehradun                                                                                     | <b>Sustainable Inventory Optimization with Price- and Credit-Sensitive Demand: Integrating Preservation Technology and Emission Control Policy</b> |
| 3.        | Ras Bihari Soni    | ICRTM_B30 | Government Birla College Bhawani Mandi, Jhalawar Rajasthan                                                           | A New Approach to find Initial BFS of Transportation Problem                                                                                       |
| 4.        | Balveer Saini      | ICRTM_B33 | M. S. J. Govt. P. G. College, Bharatpur affiliated to Maharaja Surajmal Brij University, Bharatpur, Rajasthan, India | Queueing Theory in Telemedicine: A Comprehensive Review of Applications and Future Directions                                                      |
| 5.        | Arvind Kumar       | ICRTM_B40 | Dyal Singh College, University of Delhi 110003                                                                       | Duality results for multiobjective programming problem with generalized-convexity                                                                  |
| 6.        | Dr. Indarpal Singh | ICRTM_B48 | Delhi College of Arts & Commerce, University of Delhi                                                                | Stochastic Inventory Modeling and Resource Optimization Strategies: A Comprehensive Study                                                          |

|     |                                      |           |                                                                                                               |                                                                                                                                |
|-----|--------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 7.  | Prof. Ritu Arora                     | ICRTM_B51 | Keshav Mahavidyalaya,<br>University of Delhi                                                                  | Air Quality Efficiency<br>Evaluation of New Delhi<br>Regions using DEA approach                                                |
| 8.  | Bharti Seth                          | ICRTM_B59 | Vivekananda Institute of<br>Professional Studies<br>-Technical Campus                                         | Air Quality Efficiency<br>Evaluation of New Delhi<br>Regions using DEA<br>approach                                             |
| 9.  | Manisha Rao                          | ICRTM_B60 | Banasthali vidyapith                                                                                          | Transient solution of an<br>M/M/2 queue with<br>Heterogeneous Servers<br>Subject to Catastrophes and<br>Impatient Customers    |
| 10. | Vishakha<br>Chaudhary                | ICRTM_B62 | Department of<br>Mathematics SRM<br>Institute of Science and<br>Technology Delhi-NCR<br>Campus, Ghaziabad, UP | Integrated Inventory Model<br>for decaying items with<br>linear demand under<br>inflation                                      |
| 11. | Mukeshkumar<br>Tribhovandas<br>Joshi | ICRTM_B71 | The Charutar Vidya<br>Mandal University,<br>Vallabh Vidyanagar,<br>Anand, Gujarat                             | An innovative method for<br>prediction of time series<br>data                                                                  |
| 12. | Priyanka Yadav                       | ICRTM_B75 | Atma Ram Sanatan<br>Dharma College,<br>University of Delhi                                                    | Predictive Online Convex<br>Optimization with Online<br>Perturbed Constraints                                                  |
| 13. | Rohit Kumar                          | ICRTM_B82 | Maharshi Dayanand<br>University, Rohtak                                                                       | Cost-Benefit and Sensitivity<br>Analysis for a Two-Unit<br>Standby System with Pre<br>Scheduled Activation                     |
| 14. | Vineet                               | ICRTM_B92 | University of Delhi                                                                                           | Convergence Analysis of the<br>CQ-Method by the<br>Landweber Operators<br>induced by the generalized<br>non expansive maps     |
| 15. | Akhilesh Kumar<br>Yadav              | ICRTM_B93 | Department of<br>Mathematics, Hindu<br>College, Moradabad                                                     | "Fuzzy Inventory Model for<br>Deteriorating Goods with<br>Joint Pricing, Partial<br>Backlogging, and<br>Time-Dependent Demand" |

## Group 7

**Session Chair: Mr. Ajeet Singh**

**Session Co-Chair: Dr. Dharmendra Kumar**

**Student Coordinators: Mr. Naman**

**Google Meet Link : <https://meet.google.com/zjy-mdgz-jvh>**

| <b>S.N<br/>o.</b> | <b>Name</b>     | <b>Paper ID</b> | <b>Institution</b>                                                       | <b>Title</b>                                                                                                                                                                                                                                                 |
|-------------------|-----------------|-----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                | Pankaj Hazarika | ICRTM_B01       | Assistant Professor,<br>Madhabdev University                             | A class of fuzzy microarray<br>games and a corresponding<br>relevance index for genes                                                                                                                                                                        |
| 2.                | Kavitha K       | ICRTM_B19       | Thiruvalluvar University ,<br>Vellore, Tamil Nadu.                       | An Extensive Study of finite<br>dimensional hesitant fuzzy<br>normed linear spaces                                                                                                                                                                           |
| 3.                | Bitu Sah        | ICRTM_B22       | Department of<br>Mathematics, B.R.A.<br>Bihar University,<br>Muzaffarpur | Development of Traffic Light<br>Controller Using Fuzzy<br>Trapezoidal Function In<br>Emergency VehicleApplication<br>of Fuzzy Logic in Predicting<br>Electronic and Magnetic<br>Properties of Mn-Doped<br>ZnSnAs <sub>2</sub> Using First<br>Principles Data |
| 4.                | Anjeli Garg     | ICRTM_B46       | Government Degree<br>College, B.B. Nagar,<br>Bulandshahr,UP              | Application of Fuzzy Logic in<br>Predicting Electronic and<br>Magnetic Properties of<br>Mn-Doped ZnSnAs <sub>2</sub> Using<br>First Principles Data                                                                                                          |
| 5.                | Gaurav          | ICRTM_B47       | Central University of<br>Haryana                                         | Dynamic Collision Avoidance<br>in Autonomous Vehicles using<br>Type-3 Fuzzy Logic Systems<br>and Explainable AI                                                                                                                                              |

|     |                   |            |                                                                                    |                                                                                                                                                                       |
|-----|-------------------|------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.  | Neetu Dhiman      | ICRTM_B73  | University Institute of Technology, Himachal Pradesh University, Shimla            | Comparative analysis of energy alternatives for distributed generation systems using analytical hierarchy process (AHP) and fuzzy analytical hierarchy process (FAHP) |
| 7.  | Sabiha Tabassum   | ICRTM_B77  | Aligarh Muslim University                                                          | $[(\lambda, \mu)]$ -q-Statistical Convergence                                                                                                                         |
| 8.  | Madhulika Mishra  | ICRTM_B85  | Symbiosis Statistical Institute                                                    | Constructing Log Type Estimator Using Auxiliary Variable in Stratified Random Sampling.                                                                               |
| 9.  | Rashmi Rekha Devi | ICRTM_B96  | Amity University, Kolkata                                                          | An Information Theoretic Approach to probe into the pattern of rainfall over northeast India                                                                          |
| 10. | Dinesh Udar       | ICRTM_B100 | Delhi Technological University                                                     | Strongly Unit P- Clean Rings                                                                                                                                          |
| 11. | Dinesh Udar       | ICRTM_B101 | Delhi Technological University                                                     | Uniquely Unit P- Clean Rings                                                                                                                                          |
| 12. | Garima Virmani    | ICRTM_B106 | University of Delhi                                                                | Levitin Polyak well-posedness of mixed variational inequality problem in terms of bifunction                                                                          |
| 13. | Sudesh Pundir     | ICRTM_B04  | Pondicherry University                                                             | Measure of entropies in the presence of interventions                                                                                                                 |
| 14. | Manish Tomar      | ICRTM_B95  | Dept. Of Physics and Astronomical Sciences, Central University Of Himachal Pradesh | Material Science In Quantum Machine Learning: A Scientometric Study                                                                                                   |
| 15. | Rahul Kumar       | ICRTM_B12  | Doon University Dehradun                                                           | Inverse theorem for Bernstein-Durrmeyer type operators                                                                                                                |