

Report of

24th Annual Conference of Vijnana Parishad of India and National Seminar

24th Annual conference of **Vijnana Parishad of India and National seminar** on “**New Thrust Areas in Mathematics, Mathematical Science and Engineering**” organized by **Department of Mathematics, D.V. College, Orai** from **28 April to 30 April 2023**. Inaugural function of the conference held on 28.04.2023 at 11:00 A.M. in Central Library of D.V. College, Orai. **Professor V.P. Saxena (Ex. V.C. Jiwaji University, Gwalior)** Chaired as a Chief Guest in this inaugural function. **Professor M.A. Pathan (Ex. Head Department of Mathematics, AMU, Aligarh)** and **Prof. S.C. Agrawal (Ex. Head Department of Mathematics, C.C.S. University, Meerut)** chaired as special Guest in this function. **Professor Rajesh Chandra Pandey, Principal D.V. College, Orai**, Chaired as a President of this function. **Dr. R.C. Singh Chandel** chaired as a convener of the conference and a Secretary of Vijnana Parishad of India and **Dr. S.S. Chauhan** chaired as an organizing secretary of the conference. The inaugural program started with saraswati poojan and lighting the lamp. After that all chaired persons were welcome and honoured. In continuation the souvenir and the latest issue of Jnanabha Journal were released in this program.

Prof. V.P. Saxena delivered a keynote speech on the topic “**Mixed Boundary Value Problems and Saxena’s I-Functions**”. He talked about the

mixed boundary value problems occur in several fields of Physics, Engineering and Biology. Mathematical solution of such problems lead to dual and triple Integral Equations having special functions as kernals. Successive development of dual Integral Equations results in advanced form with generalized hypergeomatric functions as kernals. The solution of this type of equations leads to evolution of the most genelized hypergeometric functions.

Prof. B.V. Rathish (I.I.T., Kanpur) delivered “**Professor J.N. Kapur Memorial Lecture**” on the topic “**Glimpses of Mathematics at the Frontiers of Science and Technology**”. He taked a quick tour on the role of Mathematics in dealing with some of the real life problems from Science and Technology which he routinely encounter and look for approximate solution when the problems as such are not amenable for analytical treatments without several simplification which may take us from reality through a few anecdotes and episodes. **Prof. M.A. Pathan** delivered a lecture on History of Mathematics. **Prof. S.C. Agrawal** delivered a talk about the importance of special function. **Prof. Madhu Jain (I.I.T., Roorkee)** delivered an invited talk on the topic “Performance Analysis and cost optimization of Fault Tolerance Machining systems with Reboot and Recovery” She told about the interest of the machaning system operating under fault tolerance measures has influenced many Industries in need of high-quality products in every single modern area. The stochastic modeling for the performance prediction and cost optimization of multi component fault tolerance machining system has been studied. **Prof. U.C. Gairola (H.N.B. Garhwal University, Pauri Campus)** delivered a talk on the topic “Constractions in Metric Fixed Point Theory” He presented a survey that aims to provide a brief historical development of metric fixed point

theory through the definition and comparison of different contraction mappings and their applications. **Prof. M.C. Joishi (D.B.S. Campus, Kumaun University, Nainital)** delivered an invited talk on the topic “Metric space structures and fixed point Theorems”. **Prof. S.N. Singh (Avadh University, Faizabad)** delivered a talk related to theory of relativity. **Prof. Avanish Kumar (Bundelkhand University, Jhansi)** delivered a talk on the topic “Mathematical and computational modelling and its Relevance to Real world”. **Prof. Hemant Kumar (D.A.V. College, Kanpur)** delivered an invited talk on the topic “Identities of the General Multiple Hurwitz-Lerchzeta Function Based upon the Srivastava Daoust Hypergeometric series in Several Variables”. **Dr. Gajendra Pratap Singh (J.N.U., New Delhi)** delivered an invited talk on the topic “Binary Petri nets and Multi-criteria Decision Making Applications”. **Dr. Anju Khandelwal (S.R.M.S. College, Bareilly)** delivered a lecture on the topic “Performance Upgradation of Distributed Systems through Fuzzy and Clustering Techniques”. **Dr. Manoj Sharma (RJIT, BSF Academy Takanpur, Gwalior, India)** delivered a lecture on the topic “Applications of Fractional Calculus in Linear Kinetic Equations”.

Prof. Pranesh Kumar (University of Northern British Columbia Prince George BC, Canada) delivered an invited talk (Online Mode) on the topic “Analysis of Multifactor Imprecise Data Using Neutrosophic Statistics”. He consider neutrosophic analysis of categorical data which is arranged in contingency tables. He discuss results obtained from the neutrosophic contingency table analysis using data observed in various applications. **Prof. S.R. Chakravarthy (Kettering University, Flint, U.S.A.)** delivered an

invited talk (Online Mode) to present an overview of matrix-analysis methods in stochastic modeling and also discuss a few examples using such methods. **Prof. J.N. Singh (Barry University, Miami Shores, Florida, U.S.A.).** delivered an invited speech (Online Mode) about the distribution theory. **Prof. Santosh Kumar (University of Dar es Solaam, Tanzania)** delivered an invited talk (Online Mode) on the topic “An Introduction to fixed Point Theory and its Applications” He told about fixed point Theorems give the conditions under which maps (single or multivalued) have solution. The Theory itself is a beautiful mixture of analysis, topology and geometry. **Prof. V.N. Mishra (Indira Gandhi National Tribal University, Lalpur, Amar Katak, India)** delivered an invited talk (Online Mode) on the topic “Approximation by Sampling Durrmeyer Operators in Weighted Space of Functions” He talked about approximating the high-order Polynomials curves and curved surfaces with the low-order ones plays an importance role in data compression, data transmission and data exchange in geometric modelings tasks. **Prof. P.E. Ricci (International Telematic University Uninettuno, Rome, Italy)** delivered an invited talk (Online Mode) on the topic “ 2^{nd} Kind hypergeometric Bernoulli numbers and Bell’s Polynomials”. He exploited the Blissard problem to drive a connection of these generalized Bernoulli numbers with Bell’s Polynomials. **Prof. Mange Ram (Graphic Era Deemed to be University, Dehradun, India)** Delivered a talk (Online Mode) about Reliability theory with its applications and **Prof. B.M. Golam Kibria (Department of Mathematics and Statistics at Florida International University U.S.A.)** Delivered an invited talk on the topic “Linear And Non-Linear Multicollinear Regression Models: Theory, Simulation And

Applications”. He discussed about some multicollinear regression models: Linear regression model, Logistic regression model, Gamma regression model, Beta regression model, Poisson regression model, ZIP regression model, Negative Binomial regression model and ZINB regression model.

Almost 40 Research scholars read research papers **online/offline** mode in this conference. Following Awards are given in this conference by **Vijnana Parishad of India :-**

1. LIFE – LONG ACHIVEMENTS AWARD :-

- (i) **Professor, Rekha Srivastava**, Former Professor, University of Victoria, B.C., Canada.
- (ii) **Professor, M.A. Pathan**, Former Professor, Aligarh Muslim University., Aligarh (U.P.), India.

2. FELLOW OF VIJNANA PRARISHAD OF INDIA (F.V.P.I.) :-

- (i) **Professor, S.N. Singh**, Former Professor, Avadh University, Faizabad (U.P.), India.
- (ii) **Professor, S.N. Pandey**, Former Professor, MMM Engineering College, Gorakhpur (U.P.), India.

3. DISTINGUISHED SERVICE AWARD :-

- (i) **Professor, Santosh Kumar**, University of Dar es Salaam, Tanjania.
- (ii) **Professor, Mange Ram**, Graphic Era Deemed to be University, Dehradun (Uttarakhand) India.

(iii) **Professor, Sudhir Kumar Srivastava**, Deen Dayal Upadhyay University, Gorakhpur (U.P.) India.

(iv) **Dr. Anju Khandelwal**, S.R.M.S. College, Bareilly (U.P.) India.

4. **BEST PAPER PRESENTATION PRIZE AND YOUNG SCIENTIST AWARD :-**

(i) **PURE MATHEMATICS :**

Mr. Rohit Kumar, Department of Mathematics, D.S.B. Campus, Kumaun University, Nainital (Uttarakhand) India.

(ii) **APPLIED MATHEMATICS :**

Ms. Deepika Marwar, Department of Mathematics, V.S.S.D. College, Kanpur (U.P.) India.

(iii) **INDISCIPLINARY :**

Mr. Narendra Biswas, Department of Mathematics, D.S.B. Campus, Kumaun University, Nainital (Uttarakhand) India.

The valedictory and feed back session held on dated 30.04.2023 at 1:30 PM in central Library of D.V. College, Orai. **Professor S.N. Pandey** (Head Department of Applied Science MMM Engineering College, Gorakhpur) chaired as a Chief Guest in this function. **Prof. M.C. Joshi** (D.B.S. Campus, Kumaun University, Nanital) chaired as a special Guest in this function. **Prof. Rajesh Chandra Pandey** (Pricipal D.V. College, Orai) chaired as a president of this function. The report of the conference was read by **Dr. S.S. Chauhan**,

organizing secretary of the conference. The remarks were given by **Prof. M.C. Jhoshi** and **Prof. U.C. Gairola** of the conference. In the last vote of thanks was given by **Prof. R.C. Singh Chandel**, Secretary of V.P.I. .

The name of organizers of this conference are as follows :-

Convenor - Professor R.C. Singh Chandel (Secretary, V.P.I.)

Organizing Secretary – Dr. S.S. Chauhan (Associate Professor Department of Mathematics, D.V. College, Orai)

Joint Secretary – Dr. Niti Kushwaha (Assistant Professor, Department of Botany, D.V. College, Orai)

Technical/Communication Secretary – Dr. Harish Srivastav, (Assistant Professor, Department of Mathematics, D.V. College, Orai)

(Dr. S.S. Chauhan)
Associate Professor
Department of Mathematics
D.V. College, Orai (Jalaun) U.P.



NAAC Accredited 'B' Grade

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On

NTAMMSE 2023

April 28-30, 2023

Organized by

Department of Mathematics

Dayanand Vedic College,
Orai (Jaluan), Uttar Pradesh, India

(Affiliated to Bundelkhand University, Jhansi)



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24th Annual Conference of Vijnana Parishad of India and National Seminar on New Thrust Areas in Mathematics, Mathematical Sciences and Engineering

(NTAMMSE 2024)

April 28-30, 2024

Organized by

Department of Mathematics

and Vedic Mathematics, O.P.J.S. University,
Sundernagar, Himachal Pradesh



Prof. (Dr.) Rajesh Chandra
Pandey

Prof. S.N. Pandey

Prof. M.C. Joshi





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Dr. S.S. Choudhary

Dr. R.C. Singh-Dogra

Prof. (Dr.) Rajesh Chandra

Prof. A.P. Saxena

Prof. M.A. Pathan

Prof. S.C. Sengupta



• प्रवेश •

• निकास •

24th Annual Conference of Vinaya K...
Seminar

गुरुवार - प्रातः १० बजे से अपराह्न २.३० तक
श्री १. मंगलार - राधादे भगवत - भक्त
श्री २. राधादे - राधादे भगवत - भक्त
श्री ३. राधादे - राधादे भगवत - भक्त
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श्री ५. राधादे - राधादे भगवत - भक्त
श्री ६. राधादे - राधादे भगवत - भक्त
श्री ७. राधादे - राधादे भगवत - भक्त
श्री ८. राधादे - राधादे भगवत - भक्त
श्री ९. राधादे - राधादे भगवत - भक्त
श्री १०. राधादे - राधादे भगवत - भक्त

