

Dr. RUPESH KUMAR SRIVASTAV



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INTERESTS

Teaching and conducting research in the fields of Engineering Mathematics, Differential Equation, Numerical and Complex Analysis, Computational Fluid Dynamics (CFD), Multiphase Flows, Heat and Mass Transfer, Nonlinear Analysis, Approximation Theory.

PRESENT STATUS

Working as an Assistant Professor in Dr. ShivanandNautiyal Government Post Graduate College, Karanprayag, UK.

ACADEMIC QUALIFICATION

- **Ph.D.** 2015,
Integral University, Lucknow, India.

Title: “A Study of Flow through Constricted Tube with reference to Blood”

Supervisor: *Prof. Q. S. Ahmad*, Scientific Unit, Deanship of Educational Services Qassim University, Kingdom of Saudi Arabia
Ex. C.O.E., Integral University, Lucknow.

Co-Supervisor: *Dr. Abdul Wadood Khan*, Integral University, Lucknow
&
Late *Dr. V. P. Srivastava*, D.Sc., Director-Krishna Institute of Technology, Kanpur and Ex-Associate Professor, University of Liberia, West Africa.

LIST OF RESEARCH PUBLICATIONS

1. Sheetal Deshwal, **Rupesh K. Srivastav** and Gopi Prasad “*Approximation by Modified Post-Widder Operators*”, Korean Soc. Math. Educ. Ser. B: Pure Appl. Math., Vol. 30, Issue 1, pp. 67-81, 2023.

2. Sheetal Deshwal and **Rupesh K. Srivastav** “Generalized form of Dunkl analogue of Sz'asz operators” Ganita, ,Vol. 71, Issue 1, pp. 115-127, 2021.
3. **Rupesh K. Srivastav** and Sheetal Deshwal “Convergence: New Post-Widder Operators” International Journal of Mathematics Trends and Technology, Vol. 67, Issue 2, pp. 43-52, 2021.
4. **Rupesh K. Srivastav**, Manisha Gupta and Poonam Sinha “A Steady Flow of Blood Through a Stenosed Artery with a Balloon-Catheter Technique”, International Journal of Advanced Research, ISSN: 2320-5407, Vol. 5, Issue 5, pp. 1564-1572, 2017.
5. **Rupesh K. Srivastav**, Indu Kumar and Poonam Sinha “Response of a Composite Stenosis for Two-Layered Blood Flow Through Arteries”, Journal of Computation in Biosciences and Engineering, ISSN: 2348-7321, Vol. 3, Issue 4, pp. 1-5, 2017.
6. **Rupesh K. Srivastav**, Atul Kumar Agnihotri and Manisha Gupta, “A Mathematical Model for Analysis of Blood Flow in a Stenosed artery with Permeable Wall” Asian Journal of Science and Technology, ISSN: 0976-3376, Vol. 7, Issue 1, pp. 2230-2236, 2016.
7. **Rupesh K. Srivastav** “Two-Layered Model of Blood Flow Through Arterial Catheterization with non-Symmetric Constriction”, Journal of Computation in Biosciences and Engineering, ISSN: 2348-7321, Vol. 2, Issue 2, pp. 1-8, 2015.
8. **Rupesh K. Srivastav** and Atul Kumar Agnihotri “Blood Flow Through a Bell-Shaped Stenosis In Catheterized Arteries”, e-Journal Of Science & Technology (Greece), ISSN: 17905613, Vol. 10, Issue 1, pp. 1-11, 2015.
9. **Rupesh K. Srivastav and Atul Kumar Agnihotri**, “Non-Newtonian Power-Law Blood Fluid Flow Through a Bell Shaped Stenosis in Artery”, Journal of Multidisciplinary Scientific Research, (Africa), ISSN: 2307-6976, Vol. 1, Issue 5, pp. 39-45, 2014.
10. **Rupesh K. Srivastav** “Mathematical Model of Blood Flow Through A Composite Stenosis In Catheterized Artery With Permeable Wall”, Appl. Appl. Math., (U.S.A.), ISSN: 1932-9466, Vol. 9, Issue 1, pp. 58-74, 2014.
11. **Rupesh K. Srivastav** and V. P. Srivastava, “On Two-Fluid Blood Flow Through Stenosed Artery with Permeable Wall”, Applied Bionics and Biomechanics, (Netherlands), ISSN: 1176-2322, Vol.11 Issue 1-2, pp. 39-45, 2014.
12. **Rupesh K. Srivastav**, Qazi Shoeb and Ahmad Abdul Wadood Khan, “A Two-Layerd Blood Flow Through an Overlapping Constriction with

Permeable wall", e-Journal of Science & Technology (Greece),ISSN: 17905613, Vol. 8, Issue 4, pp. 73-86, 2013.

13. **Rupesh K. Srivastav**, Qazi Shoeb Ahmad and Abdul Wadood Khan, "Two-Phase model of Blood Flow Through a Composite Stenosis in The Presence of Peripheral Layer", Journal of Multidisciplinary Scientific Research, (Africa),ISSN: 2307-6976,Vol.1, Issue 5, pp. 39-45, 2013.
14. **Rupesh K. Srivastav**, Qazi Shoeb Ahmad and Abdul Wadood Khan, "Blood Flow Through an Overlapping Stenosis in Catheterized Artery with Permeable Wall", e-Journal Of Science & Technology (Greece), ISSN: 17905613, Vol. 8, Issue 2, pp. 43-53, 2013.
15. Amit Medhavi, **Rupesh K. Srivastav**, Qazi Shoeb Ahmad and V.P. Srivastava, "Two Phase Arterial Blood Flow Through a Composite Stenosis", e-Journal of Sci. & Tech., (Greece), ISSN: 17905613, Vol. 7 Issue1, pp. 83-94, 2012.
16. V.P. Srivastava, Mala Tandon and **Rupesh K. Srivastav**, "A Macroscopic Two-Phase Blood Flow through a Bell Shaped Stenosis in an Artery with Permeable Wall", Appl. Appl. Math. (USA), ISSN: 1932-9466, Vol. 7, Issue 1, pp. 37-51, June 2012.

RESEARCH PUBLICATIONS IN JOURNALS

1. Applications and Applied Mathematics, U.S.A..
2. E-Journal of Science & technology, Greece.
3. Asian Journal of Science and Technology.
4. Journal of Multidisciplinary Scientific Research, Africa.
5. Applied Bionics and Biomechanics, Neetherland.
6. Journal of Computation in Bioscience and Engineering, Taiwan.
7. International Journal of Advanced Research.

AREA OF RESEARCH

- Biomechanics/Bio-fluid Mechanics: Stenosis, Peristalsis and Suspension Flows, Flow in Renal Tubules.
- Differential Equations, Numerical methods for solving Differential equations.
- Approximation Theory

REVIEWER TO THE JOURNALS

1. International Journal of Fluid Mechanics Research.
2. Asian Research Journal of Mathematics.
3. International Journal of Biomathematics.
4. Asian Journal of Physical and Chemical Sciences.

MEMBERS OF PROFESSIONAL BODIES

1. Bharat Gantia Parishad, Lucknow University, Lucknow, India.
2. Vijñāna Parishad of India, Orai, U.P., India.

BOOK PUBLICATIONS

1. "Metric Spaces and Complex Analysis" **ISBN 978-93-5674-164-5**, Vikas Publishing HousePvt. Ltd., New Delhi.
2. "Blood Flow Analysis Through a Bell Shaped Stenosed Artery" by **Rupesh Kumar Srivastav**, **ISBN 978-3-659-96286**, Lambert Academic Publishing.
3. "Linear Algebra and Matrices"
4. "Geometry and Vector Calculus"
by Dr. Vinod Kumar, **Rupesh K. Srivastav** Epsilon Publishing House Pvt. Ltd., Kanpur

BOOK CHAPTERS

1. "On Arterial Blood Flow with Stenosis and Dilatation: Applications" by Sheetal Deshwal, **Rupesh Kumar Srivastav**, Manisha Gupta, ISBN 978-1-80433-985-5, DOI:<https://doi.org/10.33545/rp.book.50>, Rubicon Publications, London, England.

WORKSHOPS/CONFERENCES ATTENDED AND PAPERS PRESENTED

1. Attended a two week **Refresher Course** in "**Mathematical Sciences**" held from 28.01.2023 to 11.02.2023 by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
2. Attended a week UGC-Approved Short-Term Professional Development Programme on "**Implementation of NEP-2020 for University and College Teachers**" held from 27.10.2022 to 05.11.2022 by Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education, New Delhi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
3. Attended a four week **Induction/Orientation Programme** held from 19.10.2021 to 18.11.2021 by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Shaheed Sukhdev College of Business Studies under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

4. Attended International Training Workshop/ QIP Short Term Course on **“Fuzzy Logic with Applications”** under the QIP programme held from 20.03.2017 to 25.03.2017 in the department of *Mathematical Sciences*, IIT(BHU), Varanasi.
5. Attended the STC on **“Recent Advances on Numerical Methods for Solving Engineering Problems”** under the QIP programme held from 13.02.2017 to 24.02.2017 in the department of *Mathematical Sciences*, IIT(BHU) Varanasi.
6. Attended the STC on **“Mathematical Analysis and Application”** under the QIP programme held from 04.07.2016 to 08.07.2016 in the department of *Mathematics*, IIT Roorkee
7. Attended the STC on **“Dynamical Systems and Control”** under the QIP programme held from 29.06.2015 to 03.07.2015 in the department of *Mathematics*, IIT Roorkee.
8. Attended International workshop **“Mathematical Computations using Software Tools”** under the QIP programme held from 25.03.2015 to 27.03.2015 in the department of *Mathematics*, South Asian University, Delhi.
9. Attended a workshop on **“Data Analysis by SPSS”** held on 25th Feb. 2015 in the Department of *Mathematics*, Integral University, Lucknow.
10. Attended **“3rdNational Conference on Challenges & Opportunities for Technological Innovation”** in India held at AIMT, Lucknow on 14th Feb. 2015.
11. Presented a Paper entitled **“Two-Phase Arterial Blood Flow through A Composite Stenosis”** in **“2ndNational Conference on Challenges & Opportunities for Technological Innovation”** in India held at AIMT, Lucknow on 22nd Feb. 2014.
12. Attended the STC on **“Mathematical Computations using Software Tools”** under the QIP programme held from 01.07.2013 to 05.07.2013 in the Department of *Mathematics*, IIT Roorkee.
13. Attended *National Seminar on “Technical Education and Challenges”* organized by the Society for the Advancement of Environment Science & Convenced by Dr. M.C. Saxena Group of Colleges, Lucknow (22nd & 23rd Feb. 2013).
14. Presented a Paper entitled **“Two-Phase Arterial Blood Flow through a Composite Stenosis”** in **“National Conference on Challenges & Opportunities for Technological Innovation”** in India held at AIMT, Lucknow on 16th Feb. 2013.

15. National Conference on “**Mathematical Modelling and Computer Simulation**” held during March 23-25, 2012 at the Department of Mathematics IIT (BHU), Varanasi.

16. Advanced Training Programme on “**Optimization and its application**” during November 23-29, 2011 at of Mathematics BHU, Varanasi.

WEBINAR ORGANISED:

1. Organised an International Webinar “Domination Theory in Graphs” on 22 December 2020.
2. Organised a Webinar “Introduction of Differential Equations and its Applications” on 29 July 2020.
3. Organised a Webinar “Developing Leadership Skills” on 18 June 2020.
4. Organised a Webinar “Linear Regression” on 15 June 2020.

RELEVANT SUBJECTS:- Algebra, Analysis, Differential Equation, Operations Research, Numerical Analysis.

COMPUTER PROFICIENCY

- Sound Knowledge of MS Office, Latex, MATLAB, C, Mathematica.

PERSONAL INFORMATION

Father's Name	:	Late Sri V. K. Srivastav
Nationality	:	Indian
Religion	:	Hindu
Marital Status	:	Married
Languages Known	:	Hindi, English
Address for Correspondence	:	Dr. ShivanandNautiyal Govt. P. G. College Karanprayag-246444, Chamoli (UK)
Permanent Address	:	B/699 Subhash Nagar Barabanki-225001 Uttar Pradesh

REFERENCES:

- **Prof. Dwijendra Narain Pandey**
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Department of Mathematics
Indian Institute of Technology, Roorkee, U.K.
- **Prof. Amit Medhavi**
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- **Dr. Ram Kishor Pandey**

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Department of Mathematics

Dr. Hari Singh Gour University, Sagar, M.P., India

Date:

Place:

(Name and Signature)