

CURRICULUM VITAE

Dr. Deepak Kumar Srivastava

M.Sc., UGC-CSIR(NET/JRF), Ph.D.(Applied Mathematics), D.Sc.

Professor, Department of Mathematics

B.S.N.V. Post Graduate College (K.K.V.)

(Lucknow University, Lucknow)

Station Road, Charbagh, Lucknow-226001, Uttar Pradesh, India

ORCID ID: <https://orcid.org/0000-0002-5104-3954>

Google Scholar: <https://scholar.google.co.in/citations?user=P6dQ5J0AAAAJ&hl=hi>

Vidwan Id: **Profile URL: <https://vidwan.inflibnet.ac.in/profile/604315>**

Phone (office) : 091-0522-2635513

Phone (home) : 091-0522-2440781, mobile : 9935623044

E-mail : dksflow@hotmail.com, srivastavadk1971@gmail.com

Address : C-12, South City, Raibareilly Road, Lucknow – 226025, India.

Date and Place of Birth : 02-08-1971, Lucknow(U.P.), India.

Nationality : Indian

Citizenship : Lucknow(U.P.), India

Languages : English, Hindi(Indian)

Education

U.P. Board, Allahabad, India, 1986, High School, Second Div. with 58.6%.

U.P. Board, Allahabad, India, 1988, Intermediate, First Div. with 61.4%.

Lucknow University, Lucknow(U.P.), India, 1989-91, Bachelor of Science with **second rank** in Lucknow Christian Degree College, Lucknow(Second Div. with 59.88%).

Post-Graduate Studies (Master of Science) at the Department of Mathematics, Lucknow University, Lucknow (U.P.), India, 1991-1993, with **honors and second rank** in Lucknow University (77.6%).

Papers studied in M.Sc. First Year : 1. Abstract Algebra 2. Topology 3. Advanced Analysis 4. Integral Equations & Partial Differential Equations 5. Differential Geometry & Tensors.

Papers studied in M.Sc. Second Year : 1. Theory of Complex Variable 2. Functional Analysis 3. Fluid Dynamics 4. Theory of Numbers 5. Theory of Functions of Real Variable.

Ph.D. (in Applied Mathematics/ Fluid Mechanics–Stokes Flow/ Slow Viscous Incompressible Flow/ Low Reynolds Number Flow and their applications in Biology and Naval Engineering), Department of Mathematics, Lucknow University, Lucknow(U.P.), India.

Thesis Title : *Certain Stokes Flow and Allied Problems*

Supervisor : (Late)Prof. Sunil Datta, Former Head, Department of Mathematics, Lucknow University, Lucknow(U.P.), India.

* **Doctor of Science(D.Sc.) Awarded in year 2013 by Lucknow University, Lucknow**

Thesis Title : **CERTAIN SLOW VISCOUS FLOW AND ALLIED PROBLEMS**

Research Experience

Department of Mathematics, Lucknow University, Lucknow(U.P.), India.

| | |
|---------------------------------|-----------|
| UGC-JRF(Junior Research Fellow) | 1995-1997 |
| UGC-SRF(Senior Research Fellow) | 1997-1999 |

Research Experience(During Minor & Major Research Project of UGC)

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| UGC-minor research project(two years duration) | 1999-2001 |
| UGC-minor research project(two years duration) | 2001-2003 |
| UGC-minor research project(two years duration) | 2005-2007 |
| UGC-major research project(three years duration) | 2011-2014 |

Teaching Experience

First as a research scholar (JRF & SRF) and then as a Assistant Professor & Associate Professor (Mathematics), I have been continuously teaching under graduate and post graduate courses of mathematics as Geometry(2D & 3D), Abstract Algebra, Advanced Analysis(Real & Complex), Calculus, Differential and Partial Equations, Integral Equations, Tensors, Numerical Analysis, Topology, Fluid Dynamics.[Total **Twenty Seven Years at UG level, Including Approx. Ten Years at PG level**]

As a Lecturer/ Senior Lecturer & Reader/Associate Professor/Professor

- Department of Mathematics, Govt. Post Graduate College(University of Kumaun, Nainital), Pithoragarh(Uttarakhand), India – From **May 1st, 1998 to April 30th, 2002(As a Lecturer)**, **May 01st, 2002 to Dec. 16th, 2003(As a Senior Lecturer)**
- Department of Mathematics, B.S.N.V. Post Graduate College(University of Lucknow), Lucknow(U.P.) , India – From **Dec. 17th, 2003 to April 30th 2007(As a Senior Lecturer)**, **May 01st 2007 to April 30th, 2010(As a Reader)**, From **May 01, 2010 to 31st October 2021(As an Associate Professor)** and **1st November 2021 to now(still continued as a Professor)**

Honors and Grants

1994-1997

UGC/CSIR-NET/JRF, New Delhi, India

1997-April 1998

UGC/CSIR-NET/SRF, New Delhi, India

* Dec. 31, 1999, Jan. 1-3, 2000 Best Paper Presentation Award for the research paper “ **Singularity Method for an Imperfect Spheroid in an Elastic Medium**” in Golden Jubilee International Conference on mathematics held at the Department of Mathematics, Lucknow University, Lucknow(U.P.), India in association with Bharat Ganita Parishad.

* Dec. 11-12, 2004 Best Paper Presentation Award for the research paper “ **Optimum Volume Profile in Axi-Symmetric Stokes Flow** ” at the national conference of Bharat Ganita Parishad, Department of Mathematics, Lucknow University, Lucknow.

* 2020-21 **Covid Awareness Award** (For the valuable support and contribution to academic events During Covid-19 Pandemic) by S R Institute of Management & Technology, Lucknow

* State Govt. of UP has awarded me “**Shikshak Samman**” on Teachers Day(05th September, 2021) for the contribution in the Area of Higher Education and Implementation of NEP-2020 by Prof. Alok Kumar Rai, Vice Chancellor, Lucknow University, Lucknow.

National and International Conferences

- Annual Conference of Bharat Ganita Parishad, Department of Mathematics, University of Lucknow, Lucknow(U.P.), India , December 22-23, 1995.
- Annual Conference of Bharat Ganita Parishad, Department of Mathematics, University of Lucknow, Lucknow(U.P.), India , December 26-28, 1996.
- Annual Conference of Bharat Ganita Parishad, Department of Mathematics, University of Lucknow, Lucknow(U.P.), India , December 23-24, 1997.
- Annual Conference of Bharat Ganita Parishad, Department of Mathematics, University of Lucknow, Lucknow(U.P.), India , November 24-25, 2001.
- **Golden Jubilee International Conference** on mathematics held at the Department of Mathematics, Lucknow University, Lucknow(U.P.), India, December 31st,1999 to

January, 3rd, 2000. Presented a paper entitled “**Singularity method for an imperfect spheroid in an elastic medium**”.

- **International Conference** on Special Functions and its Applications conducted by SSFA, held at IMDUP, Aliganj, Lucknow(U.P.), India, during February 4th to 6th, 2001. Presented a paper entitled “**Slow rotation of axially symmetric bodies with source at its centre**”.
- The National Conference on Mathematics conducted by Bharat Ganita Parishad(BGP) in the Department of Mathematics, University of Lucknow, Lucknow during December 11-12, 2004. Presented a paper entitled “**Optimum Volume Profile in Axi-Symmetric Stokes Flow**”.
- The National Conference on Mathematics conducted by Bharat Ganita Parishad(BGP) in the Department of Mathematics, University of Lucknow, Lucknow during December 22-23, 2008.
- The National Conference on “**Differential Geometry and Special Trends in Mathematical Modeling**” conducted under the SAP-UGC in the Department of Mathematics, University of Lucknow, Lucknow during December 24-25, 2008.
- Second National Symposium on “**Modern Trends in Differential Geometry and Mathematical Modeling in Bio-Sciences**” conducted under the SAP-UGC in the Department of Mathematics, University of Lucknow, Lucknow during January 09-10, 2010.
- **International Conference of CONIAPS-XII**, organized by Department of Mathematics, University of Rajasthan, Jaipur, during December 22-25, 2010. Attended & Paper entitled “**Stokes flow around deformed sphere: class of prolate axisymmetric bodies**” was presented.
- **International Conference** on Mathematics of Date(ICMD-2010) organized by Pushpa Publishing House, Allahabad, during December 31, 2010-January 04, 2011. Attended and paper entitled “**Optimum cross-section profile in axisymmetric Stokes flow**” was presented.
- Attended the Third National Symposium on “**Modern Trends in Differential Geometry and Mathematical Modeling in Bio-Sciences**” conducted under the SAP-UGC in the Department of Mathematics, University of Lucknow, Lucknow during January 15-16, 2011.
- XIIIth **International Conference** of International Academy of Physical Sciences(CONIAPS) at UPES Dehradun, during June 14th to June 16, 2011, and presented a paper “**Creeping flow around slowly rotating axially symmetric body**”.
- National Conference “**CORTPAM-2011**” Department of Mathematics, DDU Gorakhpur University, during June 24-25, 2011 and presented a paper “**Slow viscous flow around deformed sphere: prolate bodies**”.
- National Conference on Recent Advances in Mathematics(NCRAM-2012), Department of Mathematics and Astronomy, University of Lucknow, Lucknow, during Feb. 2-4, 2012 and presented a paper “**Slow rotation of axially symmetric pervious body in a viscous flow**”
- IXth National Conference of Indian Society of Mathematics and Mathematical Sciences(ISMAMS, Gorakhpur) on Interdisciplinary Applications of Mathematical and Statistical Techniques(Supported by DST, Govt. of India) during Feb. 25-26, 2012,

and presented a paper **“Steady creeping flow past dumbbell shaped body of revolution: an analytic approach”**

- Xth National conference organized by ISMAMS, Gorakhpur on **“Mathematical Sciences for the Advancement of Science and Technology”**(Sponsored by DST & CSIR) during Feb. 23-24, 2013 and delivered an **invited talk “Oseen’s correction to Stokes drag on axially symmetric: a new approach”** and **chaired a technical session.**
- Attended One Day **Conference on Mathematics** organized by Bharat Ganita Parishad, Lucknow, on March 24, 2013, at the Deptt. of Mathematics, Lucknow University, Lucknow.
- Attended National Seminar on **“Environmental Degradation and Aquaculture”** organized by Post Graduate Department of Zoology, B.S.N.V. Post Graduate College, Lucknow on Dated: 28 April, 2013. Abstract entitled **“Role of Reynolds number in moving microorganisms moving through the fluid”** published in Souvenir of the conference.
- National Conference on **“Recent Trends in Mathematics & Statistics”(CORTMAS-2013)** during 27-28, July 2013, Organized by Department of Mathematics & Statistics, DDU Gorakhpur University, Gorakhpur and **title of talk** was **“Oseen’s correction to Stokes flow on axially symmetric body placed in transverse flow”**.
- Attended as a CSTT, MHRD, Govt. of India, New Delhi, invitee in a National Seminar on **“Science Terminology in Higher Education: Applications and Importance”**(sponsored by CSTT, MHRD, Govt. of India) organized by D.S.N. P.G. College, Unnao(U.P.) during 10-12-2013 to 11-12-2013, and presented a paper on title **“Role and Importance of Hindi in the Understanding of Mathematical Sciences”**.
- Attended two days workshop organized by Deptt. of English on **“Gender Sensitization for Gender Equality”** during 16-17, January, 2015, at B.S.N.V. Post Graduate College, Lucknow.
- Attended UGC sponsored two days National Seminar organized by Deptt. of English on **“Treatment and reflection of culture and gender in post colonial India”** during March 28-29, 2015, at B.S.N.V. Post Graduate College.
- Attended one day **National Workshop on Quality Enhancement Under Career Advancement Scheme(NWQEUCAS-2015)** on July 07, 2015 at B.S.N.V. P.G. College, Lucknow.
- Attended three day **International Conference** on Recent Trends in Mathematics(**ICRTM-2015**) and presented a paper entitled **“Stokes drag on axially symmetric body in variety of flows”** during July 10-12, 2015 at Deptt. Of Mathematics, Allahabad University, Allahabad.
- Attended two day workshop on **“Gender Equality, Justice & Women Empowerment”** during **8-9 December 2015** at B.S.N.V. P.G. College, Lucknow.
- Attended two day **International Conference** on Biomedical Engineering & Supportive Technologies(**BEST-2016**) and presented a paper entitled **“Stokes drag on axially symmetric body in micropolar fluid”** during September 02-03, 2016 at B.I.E.T. Jhansi.
- Attended National Seminar on **“Higher Education: Issues, Challenges, Prospectus and Strategies”** held on **September 11, 2016** organized jointly by LUACTA & Mumtaz P.G. College, Lucknow.

- Attended two day National Seminar on “**New Methodology of Assessment to Nurture Quality Enhancement in Higher Educational Institute**” sponsored by NAAC held on **29-30 January 2018**, organized by Mata Gujri Mahila Mahavidyalaya(Autonomous), Jabalpur, MP and presented paper entitled “**Quality Enhancement in Higher Education Institutes Using SWOT Analysis**”.
- Attended the two day National Seminar on “**The Nature and Future of Ecocriticism in India**”[NSNFEI-2018] during **2-3 February, 2018** by Department of English, BSNV PG College, Lucknow.
- Attended one day National Seminar on “**Digital Learning Opportunities and Challenges in Higher Education Institutes**”[NSDLOCHEI-18] on **May 05, 2018**, organized by Department of Physics, B.S.N.V. P.G. College, Lucknow.
- उत्तर प्रदेश भाषा संस्थान, लखनऊ; सी0एस0आई0आर0-राष्ट्रीय विज्ञान संचार एवं सूचना स्रोत संस्थान, नई दिल्ली व इण्डियन साइंस कम्यूनिकेशन सोसाइटी, लखनऊ के तत्वावधान में दो दिवसीय, 11-12 अक्टूबर, 2019, **राष्ट्रीय हिन्दी विज्ञान लेखक सम्मेलन एवं परिसंवाद-2019** “हिन्दी विज्ञान लेखन के विविध आयाम” में प्रतिभाग तथा “हिन्दी में वैज्ञानिक शोध” विषय पर वक्तव्य दिया गया।
- Attended the **National Conference** Organized by **Research Development Committee and Commerce Department** on “**Rashtriya Shiksha Niti 2020 Mein Uchcha Shiksha Ke Ayaam**” held on 17-03-2021 at B.S.N.V. P.G. College, Lucknow.
- Attended three day **International Conference** on “**Advances in Biomechanics**”(ICABM-2022) sponsored by **SERB, CSIR, GOI** held during **21-23 July 2022**, organized by **Amity School of Applied Sciences and Indian Society of Mathematical Modelling and Computer Simulation(ISMMCM)**, IIT Kanpur and presented paper entitled “**Oseen’s correction to Stokes drag in the perspective of Newtonian and Micro-polar fluid**”.
- Attended the 35th National Convention of Computer Engineers and National Conference on “**Cyber Security & Privacy**” during 24th & 25th February 2023 at M.J.P. Rohilkhand University, Bareilly, UP.
- Attended the two-day National Conference on “**आजादी के 75 वर्ष: साहित्य, समाज और संस्कृति**” organized by Department of Hindi, S.J.N. P.G. College, Lucknow, during 01-02 April, 2023.
- Attended the Three Day National Summit of “**Institutional Leaders: Institutions for National Development**” organized by **Vidya Bharti Uchcha Shiksha Sansthan, Department of Higher Education, Govt. of Uttar Pradesh and University of Lucknow**, during 15-17 February 2024.
- Attended the Two Day National Seminar on “**Women’s Health and Wellbeing: Emerging Concerns and Challenges**” organized by **Department of English, B.S.N.V. Post Graduate College, Lucknow**, during 08-09 September 2025.

Conference/Symposium/Seminar Conducted

- Conducted the three days **UGC sponsored National Symposium** on “**Application of Various Techniques in Fluid Dynamics**”(NSAVTFD-2011) during February 10-12, 2011, at the B.S.N.V. Post Graduate College, Lucknow, as an **Organizing Secretary** of the event.

- Conducted the three days **DST & CSIR sponsored National Conference on “Role of Mathematics in Advancement of Science and Technology”(NCRMAS-2013)** during October 18-20, 2013, at the B.S.N.V. Post Graduate College, Lucknow, as an **Organizing Secretary** of the event.
- Conducted the two day National Seminar on “**Consumerism, Social Equity & Environmental Sustainability**”(NSCSEES-2019) sponsored by **Department of Higher Education, UP State Govt.** during February 01-02, 2020, at the B.S.N.V. Post Graduate College, Lucknow, as a Convener of the event.
- Organized National Seminar on “**Prospects of Science and Society in the Era of Artificial Intelligence(NSPSSEAI-2020)**” and **Artificial Intelligence Mahotsava(AIM’20)** during 03-04 March 2020 at B.S.N.V. P.G. College, Lucknow, as an **Organizing Secretary**.

Research Experience(As a Lecturer/Senior Lecturer/Reader/Associate Professor)
Research Projects Completed[As a P.I.]

1. A two years duration project [**UGC/ F.3.3(59)/ 1999-2000/ MRP/ NR**], from March 2000 to March 2002, awarded by University Grants Commission , New Delhi, India, under the minor research project scheme, entitled “**Stokes Flow in Continuum Mechanics**” which has been completed successfully at Govt. Post Graduate College(University of Kumaun, Nainital), Pithoragarh(U.A.)-262502, India.
2. A two years duration project [**UGC/ F.6-55/ SPT/ 2002 (MRCB/NRCB)**], from November 2002 to November 2004, awarded by University Grants Commission, New Delhi, India, entitled “ **Certain Slow Viscous Flow and Allied Problems** ” which has been completed successfully at Govt. Post Graduate College(University of Kumaun, Nainital), Pithoragarh(U.A.)-262502, India.
3. A two years duration project [**UGC/ F.2.2(Math)16/05(MRP/NRCB)**, dated: 29th March 2005], awarded by University Grants Commission, New Delhi, India, entitled “**Stokes drag and couple on axially symmetric bodies : a historical survey with applications**” completed at Department of Mathematics , B.S.N.V. Post Graduate College(University of Lucknow, Lucknow), Lucknow(U.P).
4. Three Year Duration Major Research Project of UGC, New Delhi[**39-55/2010(SR), Dated 24-12-2011**], started w.e.f. February 01, 2011 to 31-01-2014, entitled “ **Low Reynolds Number Flow problems and Their applications in Various Streams of science**” completed at Department of Mathematics , B.S.N.V. Post Graduate College(University of Lucknow, Lucknow), Lucknow(U.P).

Ph.D. Awarded Under My Supervision

1. Miss Supriya Yadav D/O Shri Ramesh Chandra Yadav, has been enrolled under my Co-Supervision and supervision of Dr. R.R. Yadav from Lucknow University for the research work to attain Ph.D. degree from **University of Lucknow, Lucknow(Awarded vide notice no. 01/2015, dated: 17-01-2015)**.

2. Mr. Nirmal Srivastava S/O Shri Arvind Kumar Srivastava worked as a **project fellow** under my MRP-UGC and completed his Ph.D from University of Lucknow, Lucknow under my Co-Supervision and supervision of Dr. R.R. Yadav from Lucknow University (**Awarded vide notice no. 03/2016, dated: 11-04-2016**).

Research Interests

Fluid Mechanics [Stokes Flow, Low Reynolds Number Theory, Slow Viscous Incompressible Flow and related topics] in Applied Mathematics. Also in Mathematical Biology and Bio-Mechanics.

Orientation/Refresher Programme/ Workshops

1. Completed the Orientation Programme for Programme Officer of **National Service Scheme(NSS)** from 04-10-1999 to 13-10-1999 at Training & Orientation Centre(TOC), Literacy House, Kanpur Road, Lucknow.
2. Completed UGC Sponsored **Orientation Programme** at Academic Staff College, University of Lucknow, Lucknow(U.P.), India, during June 26, 2000 to July 22, 2000.
3. Completed the Refresher Course for Programme Officer of **National Service Scheme(NSS)** from 29-01-2003 to 03-02-2003 at Training & Orientation Centre(TOC), Literacy House, Kanpur Road, Lucknow.
4. Completed UGC Sponsored **Refresher Programme in Mathematics** at Academic Staff College, University of Allahabad, Allahabad(U.P.), India, during Jan. 20, 2005 to Feb.09, 2005.
5. Completed UGC Sponsored **Refresher Programme in I.D.(Women's Studies)** at Academic Staff College, University of Lucknow, Lucknow(U.P.), India, during Nov. 08, 2006 to Nov. 28, 2006.
6. Completed six days workshop on "**Computational Thermal and Fluid Sciences and its Engineering Applications**" during May 25, 2009 to May 30, 2009 at the Deptt. of Mechanical Engineering, IIT, Banaras Hindu University, Varanasi(U.P.), India.
7. Completed three day workshop in "**Bioinformatics and Biological Systems**" (**DBT Sponsored**) during October 06-08, 2009, at Deptt. of Biochemistry, University of Lucknow, Lucknow.
8. Completed five days **DST Sponsored** short training/ workshop on "**Optimization Theory and applications**" during Feb. 10 to Feb. 15, 2010 at Department of Mathematics, University of Delhi, Delhi.
9. Completed two days short training/workshop on "**Molecular Modeling & Drug Designing**" (Sponsored by **DBT, Govt. of India and State Govt. of U.P.**) during Oct. 05 to Oct. 06, 2010, at Department of Biochemistry, University of Lucknow, Lucknow.

10. Completed five day workshop on “**LaTex and SciLab**” at UGC-Academic Staff College, University of Lucknow, Lucknow, during November 22-26, 2011.
11. Completed workshop on **Training of Teachers(ToT)** for “**DEEKSHARAMBH-STUDENT INDUCTION PROGRAMME**” at Lucknow University, Lucknow during 22-24 October, 2019.
12. Completed the 6-days **Research Faculty Development Program** on the theme of “**Research Methodology**” organized by **Pune Institute of Business Management (PIBM)** & Bappa Sri Narayan Vocational P.G College (KKV) from 21st October to 26th October 2024.

Session Chaired/Invited Talk/Lectures

1. I delivered a series of three lectures at **Kendriya Vidyalaya, Aliganj, Lucknow** during the refresher course in mathematics for T.G.T.'s held between 14th May to 16th May, 2005.
2. Delivered an invited radio talk on “**Hindi Mein Vigyan Patrakarita**” at Akashvani, Lucknow, Broadcasting dated: 11-08-2015; 5:00P.M.
3. Delivered two lecture series in **add-on course of JAM** at SJNPG College, Lucknow during December 28-29, 2015.
4. Delivered an invited radio talk on “**Hindi Mein Vigyan Patrakarita**” at Akashvani, Lucknow, Broadcasting dated: 11-08-2015; 5:00P.M.
5. Delivered **two lecture series** on Analysis(Limit, Continuity & Differentiability) at **TGT orientation programme in Jawahar Navodaya Vidyalaya, Piparsand, Lucknow**, on dated: 03-05-2016.
6. **Chaired a technical session International Conference on Biomedical Engineering & Supportive Technologies(BEST-2016)** held during September 02-03, 2016 at B.I.E.T. Jhansi.
7. Delivered an invited talk on “**Stokes flow past axially symmetric bodies: a new approach**” in a National Conference on Recent Trends in Mathematics(NCRTM) held during 10-11 November, 2018 organized jointly by Deptt. of Mathematics, Lucknow University and Bharat Ganit Parishad, Lucknow.
8. **Chaired a Session** in a National Conference on Recent Trends in Mathematics(NCRTM) held during 10-11 November, 2018 organized jointly by Deptt. of Mathematics, Lucknow University and Bharat Ganit Parishad, Lucknow.
9. Delivered an invited talk on “**Stokes drag on axially symmetric body in micropolar fluid**” in a National Conference on Recent Trends in Mathematical Sciences held during 24-25 November, 2018 organized by Deptt. of Mathematics and Statistics, DDU Gorakhpur University, Gorakhpur.
8. राष्ट्रीय प्रौद्योगिकी संस्थान, कुरुक्षेत्र, में दिनांक: 21-12-2018 को भारतीय भाषाओं में वैज्ञानिक अनुसंधान शोध(बीबीएवीएस2018) द्वारा द्वितीय अंतर्राष्ट्रीय डिजिटल संगोष्ठी, में “**द्रव प्रवाह में रेनॉल्ड्स संख्या का महत्व: एक समीक्षा**” पर विडियो रिकॉर्डेड आमंत्रित व्याख्यान दिया गया। यह संगोष्ठी यू-ट्यूब पर डिजिटली प्रसारित की गई थी।
9. Delivered an invited talk on “**Stokes flow of micro-polar fluid past an axially symmetric bodies- a new approach**” in a National Conference on Recent Trends in

Mathematics with Applications held during 21-22 February, 2019 organized by Faculty of Mathematical and Statistical Sciences, Shri Ramswaroop Memorial University, Dewan Road, Barabanki.

10. Delivered an invited talk on “**Oseen’s Correction to Stokes Drag-Axial Flow & Transverse Flow**” in a National Conference(CAAIM-21) on “**Analysis & Applications-An International Meet**” held during 17-18 November, 2021 organized jointly by Faculty of Mathematical and Statistical Sciences, Shri Ramswaroop Memorial University, Barabanki, and Bharat Ganita Parishad, Lucknow.

11. Delivered an invited talk on “**Bhartiya Sankhyaon ka Udbhav, Itihas evam Mahattva**” in a National Workshop on “**Vedic Ganita**” held during 21-26 February, 2022 organized by Faculty of Mathematical and Statistical Sciences, Shri Ramswaroop Memorial University, Barabanki.

12. Delivered an invited talk on “**Bhartiya Sankhyaon ka Udbhav, Itihas evam Mahattva**” at National P.G. College, Lucknow, on dated: 03-04-2023.

Co-curricular Activities/Adjudged the Events

1. Served as a judge in “38th Jawaharlal Nehru Regional Science Exhibition-2010” held at Kendriya Vidyalaya, Aliganj, Lucknow, during October 10-11, 2010.

2. Served as a judge in Hindi Debate Session of “**Utkarsh-2014**” at BBD University, Lucknow, on Dated: 14 Feb. 2014.

3. Served as a judge in Hindi Debate Session of “**Utkarsh-2015**” at BBD University, Lucknow, on Dated: 20 March, 2015.

4. Served as a judge in Poster & Sketch Drawing in event “**Yaad Kar Qurbani**” to celebrate the programme of Ministry of HRD, Govt. of India, “**Azadi-70**” on 29th August, 2016 at B.S.N.V. P.G. College, Lucknow.

5. Adjudged the Session in Two Day National Seminar on “**Women’s Health and Wellbeing: Emerging Concerns and Challenges**” organized by **Department of English, B.S.N.V. Post Graduate College, Lucknow**, during 08-09 September 2025.

Membership of Academic/Professional Bodies

1. Life Member of “**The Indian Science Congress Association**”[L11247] Dated: 20-03-2012

2. Life Member of “**International Academy of Physical Sciences**”[L0580], Year 2011

3. Life Member of “**Bharat Ganita Parishad**”[No. – 045], Year 1996

4. Life Member of “**National Academy of Mathematics**” D.D.U., Gorakhpur(U.P.), India[Membership No.-171], Year 2013

5. Life Member of **Indian Society for Mathematics and Mathematical Sciences(ISMAMS)**, DDU Gorakhpur[Membership No. –LM/298], Year 2012

6. Life member of **ISTAM**(Indian Society of Theoretical & Applied Mechanics), I.I.T. Kharagpur [Membership No.- L-692], Dated: 28-06-2011

7. Life member of **BSNV Vigyan Parishad**[BSNVVP-008, year 2013]

8. Life Membership(Ten Years) of **Shri J. N. P.G. College-Vigyan Parishad**-Membership No.-**JNPG/VP/54**,[Dated: 22-03-2017 to 2203-2027]

Academic Assignments

1. Serving as a reviewer for **American Mathematical Reviews(AMS)**[**Reviewer Number: 47767**]
2. **zbMATH, Germany**, reviewer-id is "**17034**"
2. Serving as a reviewer for Science Journal International(SJI, Open Access Journal)
3. Appointed as an Associate Editor for Journal of Mathematics & Statistics published by Bioinfo Publications for the five years (from 18-10-2010)
4. Editor of Science Journal named "**ANUSANDHAN(Vigyan Shodh Patrika)**" published annually by B.S.N.V. Vigyan Parishad[**ISSN No.: 2322-0708; EISSN No.: 2350-0123; RNI Code: UPHIN46478**] from year 2013.
5. Serving as a reviewer of Asian Journal of Mathematics and Computer Research, International Knowledge Press.
6. Serving as a reviewer of **International Journal of Applied and Computational Mathematics(IACM), Springer Journal**.
7. Served in various committees like **Research Promotion & Faculty development Council, Academic Development Committee, Committee for Liasoning between UGC & College, Library Development Committee** during the session 2016-2017.
8. Awarded the certificate of Excellence in Reviewing by Asian Research Journal of Mathematics-2018[**Certificate No.-SDI/HQ/PR/Cert/39167/Dee**]

Administrative and Other Experiences

10. Member of the Proctorial Board of the college at Govt. Post Graduate College, (University of Kumaun, Nainital), Pithoragarh(Uttaranchal)-262502, India.
11. Worked in many committees like UG/ PG admissions, annual physical verification (fees , Govt. stamps) and other development concerned activities of college.
12. Served as a NSS program officer in Govt. Post Graduate College, Pithoragarh(Uttarakhand) (from April 01st, 1999 to March 31st, 2003). Completed another tenure as a NSS Programme Officer at BSNV Post Graduate College, Lucknow,(from April 01st, 2006 to March 31st, 2009) also.
13. Served as a coordinator of CTPM(Certificate in Teaching Primary Mathematics) Course of IGNOU, New Delhi, for two successive years in 2002 and 2003, at the Govt. P.G. College, Pithoragarh(Uttaranchal)-262502, India.
14. Contributing and participating actively in various committees like admissions & activities related to college development at B.S.N.V.P.G. College, Lucknow.
15. Serving as a **honorary librarian(non-salaried)** w.e.f. dated: 16-08-2016 till August 2021 and still continued as a **honorary librarian** w.e.f. **August 2022**
16. Working as a College Administrator for NLIST Programme of INFLIBNET w.e.f. 24-11-2016
17. **Nodal Officer of All India Survey of Higher Education(AISHE)**, HRD, Govt. of India, at college w.e.f. year 2019

18. Nodal Officer, Digi-Shakti Programme of UP State Govt. w.e.f. November 2021 to 02 September 2024
19. Nodal Officer College, UP-ABACUS of UP State Govt. w.e.f. May 2022
20. NAAC Coordinator w.e.f. September 2024

Publications

Book Chapters- International-03

1. **Recent Studies in Mathematics and Computer Science**, Vol. 3, PP. 118-131, August 15, 2020[Total Pages-166, Editor-Dr. Narayan Thapa, Associate Professor, Department of Mathematical Sciences, Cameron University, Lawton, Oklahoma, USA]
Book Publisher International, India & UK[Print ISBN: 978-93-90149-52-0, e-Book ISBN: 978-93-90149-51-3] **Chapter 12-“Stokes Drag on Axi-symmetric Bodies in Variety of Flows”**

Authors-Deepak Kumar Srivastava, Nirmal Srivastava

<http://www.bookpi.org/bookstore/product/recent-studies-in-mathematics-and-computer-science-vol-3/>

2. Chapter/Paper entitled “**Oseen’s flow past axially symmetric bodies in magneto hydrodynamics**” published online in edited book “**Fluid-body interaction**” by **InTechOpen, UK**[Editor: **Khaled Ghaedi**, University of Malaysia][<https://mts.intechopen.com/>] Published: July 28th 2021, ISBN: 978-1-83969-176-8 Print ISBN: 978-1-83969-175-1 eBook (PDF) ISBN: 978-1-83969-177-5 Copyright year: 2021
DOI: 10.5772/intechopen.96440

[PDF: <https://www.intechopen.com/online-first/oseen-s-flow-past-axially-symmetric-bodies-in-magneto-hydrodynamics>]

3. **Novel Research Aspects in Mathematical and Computer Science**, Vol. 1, PP. 138-150, April 20, 2022[Total Pages-161, Editor-Dr. Xingting Wang, Assistant Professor, Department of Mathematics, Howard University, Washington, USA.]

Book Publisher International, India & UK[ISBN:978-93-5547-623-4 (Print) ISBN:978-93-5547-172-7(eBook), <https://doi.org/10.9734/bpi/nramcs/v1/15833D>]

Chapter 12-“Study about Axially Symmetric Bodies for Newtonian Fluid-Axial Flow”[<https://stm.bookpi.org/NRAMCS-V1/article/view/6558>]

Authors-Deepak Kumar Srivastava

Research Papers (complete list is given in the end separately)

Published – 38, Accepted – 01, Communicated – 2

General Articles – Published-14, Communicated- Three

Books Published – 5

1. **Fundamental of Abstract Algebra** [First Edition, 2005, Alok Prakashan, Allahabad and Lucknow. [Total No. of Pages-372]
[ISBN No. – 978-81-89-599-95-9][with Dr. J. P. Singh]
2. **A Course in Analysis** [First Edition, 2006, Alok Prakashan, Allahabad and Lucknow] [ISBN No. – 978-81-89-599-82-9] [Total No. of Pages-296]
[with Dr. Rama Jain]
3. **ज्यामिति(द्विविमीय एवं त्रिविमीय), Pearson Education, First Edition-2013**
[ISBN-978-81-317-9122-6][In Hindi] [Total No. of Pages-650]
4. **सदिश विश्लेषण एवं सदिश कलन, Pearson Education, First Edition-2014**
[ISBN-978-93-325-1528-4][In Hindi] [Total No. of Pages-176]
5. **“Linear Programming”, Prakashan Kendra, Lucknow, First Edition-2020-2021**[ISBN: 978-93-82476-67-2] [Total Pages-190]

संपादित शोध पुस्तकें(03)

1. Edited a book in the form of **Proceedings of National Symposium on “Application of Various Techniques in Fluid Dynamics”**, Feb. 10-12, 2011
[ISBN No.- 978-81-921323-0-3] [Total No. of Pages-224]
2. **Edited** a book in the form of **Proceedings of National Conference on “Role of Mathematics in Advancement of Science and Technology”**, Oct. 18-20, 2013
[ISBN No.- 978-81-928613-0-2] [Total No. of Pages-240]
3. Edited a book in the form of **Proceedings of National Seminar on “Consumerism, Social Equity and Environmental Sustainability” [NSCSEES-2019]**[01-02 February, 2020, Sponsored by **Higher Education Department, Government of Uttar Pradesh**]
[ISBN: 9788194862949][Total No. of Pages-215]

संपादित शोध पत्रिकाएं (जर्नल्स)(12)

1. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका **“अनुसंधान(विज्ञान शोध पत्रिका)”**(आई०एस०एस०एन० सं०-प्रिंट-2322-0708) खण्ड 01, अंक 01, वर्ष 2013, का संपादन।[Pages-269]

[chrome-

extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/Anusandhan-Vigyan-Shodh-Patrika-Vol-1-No-1-2013.pdf]

[https://www.anushandhan.in/index.php/ANSDHN/issue/view/80]

2. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड 02, अंक 01, वर्ष 2014, का संपादन। [Pages-289]

[chrome-

extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/Anushandhan-Vigyan-Shodh-Patrika-Vol-2-2014.pdf]

[https://www.anushandhan.in/index.php/ANSDHN/issue/view/71]

3. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड 03, अंक 01, वर्ष 2015, का संपादन। [Pages-238]

[chrome-

extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/anusandhan_250116.pdf]

[https://www.anushandhan.in/index.php/ANSDHN/issue/view/72]

4. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड 04, अंक 01, वर्ष 2016, का संपादन। [Pages-168]

[chrome-

extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/Anusandhan-Vigyan-Shodh-Patrika-Vol-4-No-1-2016.pdf]

[https://www.anushandhan.in/index.php/ANSDHN/issue/view/73]

5. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड 05, अंक 01, वर्ष 2017, का संपादन। [Pages-228]

[chrome-

extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/Anusandhan-2017-final-pdf-20nov17.pdf]

[https://www.anushandhan.in/index.php/ANSDHN/issue/view/74]

6. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड 06, अंक 01, वर्ष 2018, का संपादन। [Pages-140]

[chrome-

extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/Anusandhan-Vigyan-Shodh-Patrika_281218.pdf]

[https://www.anushandhan.in/index.php/ANSDHN/issue/view/75]

7. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड-07, अंक-01, वर्ष 2019, का संपादन।[**Pages-173**]
[chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://bsnvpcollege.co.in/vp/pdf/Anusandhan-2019.pdf]
[https://www.anushandhan.in/index.php/ANSDHN/issue/view/76]
8. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड-08, अंक-01, वर्ष 2020, का संपादन।[**Pages-202**]
[https://bsnvpcollege.co.in/vp/pdf/Anusandhan-2020.pdf]
[https://www.anushandhan.in/index.php/ANSDHN/issue/view/81]
9. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड-09, अंक-01, वर्ष 2021, का संपादन।[**Pages-141**]
[https://bsnvpcollege.co.in/vp/pdf/Anusandhan-2021.pdf]
[https://www.anushandhan.in/index.php/ANSDHN/issue/view/82]
10. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड-10, अंक-01, वर्ष 2022, का संपादन। [**Pages-206**]
[https://bsnvpcollege.co.in/vp/pdf/Anusandhan-2022.pdf]
[https://www.anushandhan.in/index.php/ANSDHN/issue/view/83]
11. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड-11, अंक-01, वर्ष 2023, का संपादन।[**Pages-137**]
[https://bsnvpcollege.co.in/vp/pdf/Anusandhan%202023%20Final%20PDF.pdf] [https://www.anushandhan.in/index.php/ANSDHN/issue/view/84]
12. बी०एस०एन०वी० विज्ञान परिषद, लखनऊ द्वारा प्रकाशित वार्षिक शोध पत्रिका "अनुसंधान(विज्ञान शोध पत्रिका)"(आई०एस०एस०एन० सं०-प्रिंट-2322-0708, आई०एस०एस०एन० सं०-ऑनलाइन-2350-0123) खण्ड-11, अंक-01, वर्ष 2024, का संपादन। [**Pages-177**]
[https://bsnvpcollege.co.in/vp/pdf/Anusandhan%202024%20Vol-12.pdf]
[https://www.anushandhan.in/index.php/ANSDHN/issue/view/85]

LIST OF RESEARCH PAPERS

PUBLISHED

1. Singularity method for an imperfect spheroid in an elastic medium.
The Nepali Mathematical Science Report, Vol.17, No.122 (1998), pp. 47-56[with Prof. Sunil Datta][Indexed in AMS (MathSciNet), Sr.No.-1798]
2. Stokes drag on axially symmetric bodies: a new approach.
Proceedings Indian Academy of Sciences (Mathematical Sciences) Vol.109, No.4 (Nov.1999), pp. 441-452.[Impact Factor-0.304][with Prof. Sunil Datta]
[Indexed in AMS(MathSciNet), Sr.No.-1992, SCOPUS, Web of Science] [UGC List of Journals-Sr. No. 38533 & 38534] <https://doi.org/10.1007/BF02838005>
[American Mathematical Society Review No.: MR1731871, 2000i:76039]
[Received Date-09-10-1998; Revised Date-06-05-1999; Publication Date-01-11-1999]

[Sighted in the paper of Robert Steven Kuczenski; Hsueh-Chia Chang and Alexander Revzin “Dielectrophoretic microfluidic device for the continuous sorting of Escherichia coli from blood cells” *Biomicrofluidics*, vol. 5, 032005(2011). Available on Web site of Prof. H.C. Chang: www3.nd.edu/~changlab/]

[Sighted in the paper of Colin G. Hebert; Alex Terray and Sean J. Hart “Toward label-free optical fractionation of blood-optical force measurement of blood cells”, *Analytical Chemistry*(American Chemical Society Publication), vol. 83, 2011, pp. 5666-5672]

[Sighted in the paper of I. Cimrak; M. Gusenbauer and T. Schrefl “Modelling and simulation of processes in microfluidic devices for biomedical applications” *Computers and Mathematics with Applications*, vol. 64, no. 3, August 2012, pp. 278-288. Preprint is Available on Web site of I. Cimrak: www.kst.fri.uniza.sk/~icimrak/publications/cmwa2012preprint.pdf]

[Sighted in the paper of Harijono Djodihardjo and Eddy Prijono “Proof of concept MFD optimization of the Aftbody Geometry of Axisymmetric SlenderBody Based on Wave Drag Considerations” *Journal of Mechanics Engineering and Automation*, vol. 3, 2013, pp. 473-490. Web site: www.davpublishi.com/davidpublishing/Upfile/10/9/2013/20130982031337.pdf]

[Sighted in the paper of Bharat R. Jaiswal and Baliram R. Gupta “Stokes flow of micropolar fluid past a non-Newtonian liquid spheroid” *International Journal of Fluid Mechanics Research*, vol. 42, no. 2, 2015, pp. 170-189.]

3. Slow rotation of a sphere in a viscous flow with source at its center.
Proceedings Indian Academy of Sciences (Mathematical Sciences) Vol.110, No.1 (Feb . 2000), pp.117-120.[Impact Factor-0.304][with Prof. Sunil Datta]
[Zentralbalt, Germany, Zbl 0944.76088, American Mathematical Society-Math SciNet- MR 1746376(2000k: 76133) 76U05(76D99)] [UGC List of Journals-Sr.No. 38533 & 38534][<https://doi.org/10.1007/BF02829485>]
[Indexed in AMS(MathSciNet), Sr.No.-1992, SCOPUS, Web of Science]
[Rece]

[Received: 10 March 1999 ; Revised: 12 October 1999 , Published: 01 February 2000]

4. A note on Stokes drag on axi-symmetric bodies : a new approach.
The Nepali Mathematical Sciences Report , Vol.19, No.1& 2 (2001), pp.29-34.
[**American Mathematical Society Review No.:** MR1940304, 2003j:76031]
[Indexed in **AMS(MathSciNet)**, **Sr.No.-1798**][ISSN: 2392-411X]
5. Optimum drag profile in axi – symmetric Stokes flow.
Indian Journal of Pure and Applied Mathematics (I.N.S.A., New Delhi), 33(3) :
pp. 409-426, March 2002.
[Indexed in **AMS(MathSciNet)**, **Sr.No.-1022**, **SCOPUS & ZbMath**, **Web of Science**][ISSN(Print): 0019-5588, EISSN: 0975-7465][**UGC List of Journals-Sr. No. 20865**][
[Received: 24 May 2001, Accepted: 12 June 2001

[This reference was cited in : “Shape optimization using adjoint variable method for reducing drag in Stokes flow” by Kazunori Shinohara, Hiroshi Okuda, Satoshi Ito, Norihiro Nakajima(all from Japan), **International Journal for Numerical Methods in Fluids**, vol. 58, 2008, pp. 119-159. [D.O.I. 10.1002/flid.1677] [Impact Factor-0.562]

6. Constant drag profile in axi-symmetric Stokes flow-part II
Acta Ciencia Indica ,Vol.XXVIII M, No. 4, 577(2002), pp. 577-582
[Indexed in **AMS(MathSciNet)**, **Sr.No.-1798**, **ZbMath-Sr. No. 3389**][ISSN: 0379-5411]
7. A note on Stokes drag on axi-symmetric body : oblique angle of attack
The Nepali Mathematical Science Report, Vol. 23, No. 2, 2004, pp. 51-57.
[Indexed in **AMS(MathSciNet)**, **Sr.No.-1798**]
8. Flow past stream line shaped bodies
The Nepali Mathematical Science Report, Vol. 21, No.1& 2, 2003, pp. 81-88.
[Indexed in **AMS(MathSciNet)**, **Sr.No.-1798**]
9. Optimum volume profile in axi-symmetric Stokes flow

MECCANICA, International J. of the Italian Association of Theoretical and Applied Mechanics (AIMETA), Italy, Vol. 42, No. 3, 2007, pp.239-245 [DOI: 10.1007/s11012-006-9043-5][American Mathematical Society No. **MR-2333071**][Indexed in **MathSciNet-Sr.No. 1682**, **ZbMath**, **SCOPUS**, **Google Scholar**, **Science Scitation Index**, **Web of Science**][**UGC List of Journals-Sr. No. 4131**]

[**Impact Factor-1.949**(year 2011)][ISSN: 0025-6455 (print version), ISSN: 1572-9648 (electronic version), **Journal no. 11012**, **Springer**, **Netherlands**]
[<https://doi.org/10.1007/s11012-006-9043-5>]

[[Received: 11-12-2004; Accepted: 03-11-2006; Published: 01-02-2007; Issue: June 2007]

[Sighted in the paper of Kazunori Shinohara “Adjoint variable method for drag reduction under Oseen flow” International Journal of Numerical Methods and Applications, vol. 2, no. 1, Sept. 2009, pp. 1-46]

10. Slow rotation of concentric spheres with source at its centre in a viscous fluid

Published in Hindawi Journal of Applied Mathematics, dated: 02-10-2009, Ref. No.-JAM/740172, on 02nd Oct. 2009.[Published online with D.O.I. :10.1155/2009/740172, volume 2009]

[Indexed in Mathematical Reviews number (Math SciNet-Sr.No.-1178):

[MR2559289](#)(2010k:76050), Zentralblatt MATH identifier: [05692901](#), Scopus] [UGC List of Journals-Sr. No. 21399]

[ISSN: 1110-757X, e-ISSN: 1687-0042, doi:10.1155/JAM][Impact Factor-0.834]

[Sighted in the paper of M.S. Faltas and E.I. Saad “Stokes flow between eccentric rotating spheres with slip regimes” Z.A.M.P., vol. 63, no. 5, 2012, pp. 905-919]

[Sighted in the patent of Inventers-T.R. Bewley; B.A. Sams and P.T. Chen “Multimodal Dynamic Robotic System” Published in US Patents, Publication Date: April 28, 2015]

11. Motion of Imperfect Spheroid in elastic medium: a singularity method approach,

Published online to ZAMP (Journal of Applied Mathematics and Physics)(Ref. No-09-054) on dated : 28-07-2009 [DOI : 10.1007/s00033-009-0024-0] [Impact Factor-1.29] [Also published in printed version : vol. 61, issue 5, Sept/Oct 2010, pp. 889-895][UGC List of Journals-Sr. No. 25250]

[Indexed in Mathematical Reviews Number: Math SciNet - Sr.No.-2652: MR2726634(2011i:76031) & Zentralblatt Data Base: Zbl pre05947365, SCOPUS, Web of Science]

[ISSN: 0044-2275 (print version), 1420-9039(E), Journal no. 33, Birkhäuser Basel, Switzerland]

12. Stokes flow around slowly rotating sphere with sink at its centre(with R.R. Yadav and Supriya Yadav) published in **Proceedings of National Symposium on Applications of Various Technique in Fluid Dynamics(NSAVTFD-2011), pp. 217-224**

[ISBN No.- 978-81-921323-0-3][Chapter in Edited Book/Proceedings]

13. Optimum cross section profile in axi-symmetric Stokes flow, Published in **Journal of Fluid Engineering-Transactions of ASME [Impact Factor-1.16]**, Published online Vol. 133, No. 10, Oct. 2011, pp.101202(6 pages), dated: 26-09-2011, D.O.I. 10.1115/1.4004912.[ISSN-0098-2202(P), 1528-901X(E)] [Indexed in

Mathematical Reviews Number: Math SciNet - Sr.No.-2526, SCOPUS, Web of Science][UGC List of Journals-Sr. No. 7601]

14. Slender body theory for Stokes flow past axisymmetric bodies: A review article **International Journal of Applied Mathematics and Mechanics(IJAMM)**, Volume 8, Number 15, 2012, pp. 14-39.[EISSN-0973-0184]
[Indexed in **Mathematical Reviews Number: Math SciNet, ZbMath**]
[ijamm.bc.cityu.edu.hk/ijamm/.../Y2012V8N15P14C11970157.pdf]

[Sighted in the paper of Harijono Djojodihardjo and Eddy Prijono “Proof of concept MFD optimization of the Aftbody Geometry of Axisymmetric SlenderBody Based on Wave Drag Considerations” **Journal of Mechanics Engineering and Automation**, vol. 3, 2013, pp. 473-490. Web site: www.davpublishi.com/davidpublishing/Upfile/10/9/2013/20130982031337.pdf]

[Sighted in the paper of J. Cai, Z. Yuan and X. Zhao “Study on two-layer coupling of gas-solid two-phase flow of cylindrical particles” Published online in **Powder Technology(Elsevier)**, on 17th February, 2016]

[Sighted in the Ph.D. thesis of Sandeep Namdeo “Flageller hydrodynamics of biological and biometric micro-swimmers” Ph.D. Thesis, series 2014-06, University of Groningen, The Netherlands, Chapter-1(Introduction), Ref. List SR. No.-95, ISSN(Print): 978-90-367-6702-6; ISSN(Digital): 978-90-367-6703-3]

[Sighted in the paper of Jie Cai, Zhulin Yuan, Xiaobao Zhao, Zhongzhu Gu “Numerical research on flow features of gas–solid flow of cylindrical particles” **International Journal of Hydrogen Energy** · May 2016
[Impact Factor: 3.31 · DOI: 10.1016/j.ijhydene.2016.04.183]

15. Steady Stokes flow around deformed sphere - class of oblate axi-symmetric bodies(with R.R. Yadav and Supriya Yadav) published in **International Journal of Applied Mathematics and Mechanics(IJAMM)**, vol. 8, No. 15, pp. 14-39, 2012.
[EISSN-0973-0184]
[Indexed in **Mathematical Reviews Number: Math SciNet, ZbMath**]
[ijamm.bc.cityu.edu.hk/ijamm/outbox/Y2012V8N9P17C6361026.pdf]

[Sighted in the paper of Xiang-Yu Li; Si-Cong Ren and Qi-Chang He “A general solution for Stokes flow and its application to the problem of a rigid plate translating in a fluid” **Acta Mechanica Sinica**, vol. 31, 2015, pp. 32-44.]

[Sighted in the paper of Bharat R. Jaiswal and Baliram R. Gupta “Stokes flow of micropolar fluid past a non-newtonian liquid spheroid” **International Journal of Fluid Mechanics Research**, vol. 42, no. 2, 2015, pp. 170-189.]

[Sighted in the paper of Maria Hadjinicolaou and Eleftherios Protopapas “Eigen function expansions for the Stokes flow operators in the inverted oblate coordinate

system” **Mathematical Problems in Engineering**(Hindawi Publishing Cooperation), volume 2016, 7 pages.]

[Sighted in the paper of **J. Cai, Z. Yuan and X. Zhao** “Study on two-layer coupling of gas-solid two-phase flow of cylindrical particles” **Published online in Powder Technology**(Elsevier), on 17th February, 2016.]

16. Steady Stokes flow past dumbbell shaped axially symmetric body of revolution – an analytic approach(**with R.R. Yadav and Supriya Yadav**)
Theoretical & Applied Mechanics(Serbian Mathematical Society), Vol. 39, No.3, pp. 255-289 , Belgrade July-October 2012, DOI:10.2298/TAM1203255S[SciNet-MR2981764][ISSN:1450-5584, EISSN: 2406-0925][Impact Factor(2020): 0.782]
[Indexed in **Mathematical Reviews** Number: **Math SciNet-Sr. No.-2473**, **ZbMath**, **Zbl 1299.76044**, **Scopus**, **Web of Science**]

17. Stokes flow past axially symmetric isolated bodies: a review article (with **Nirmal Srivastava & R.R. Yadav**) **International Journal of Applied Mathematics and Mechanics (IJAMM)**, vol. 9, no. 8, pp. 1-53, 2013[EISSN-0973-0184]
[Indexed in **Mathematical Reviews**, **Math SciNet**, **ZbMath**]

[Sighted in the paper of **Martina Pannuzzo; Antonio Grassi and Antonio Raudino** “Hydrodynamic enhancement of the diffusion rate in the region between two fluctuating membranes in close opposition: a theoretical and computational study” **The Journal of Physical Chemistry**[ACS-American Chemical Society], vol. 118, no. 29, 2014, pp. 8662-8672.]

[Sighted in the paper of **R. Weijermars; M.P.A. Jackson and T.P. Dooley** “Quantifying drag on wellbore casings in moving salt sheets” **Geophysical Journal International**[Published by Oxford University Press on behalf of the Royal Astronomical Society] vol. 198, no. 2, 2014, pp. 965-977.]

18. Stokes flow around rotating axially symmetric pervious body
Journal of Applied Fluid Mechanics, Volume 6, Number 3, July 2013, pp. 435-442.[Impact Factor: 0.74 for the year 2014][ISSN-1735-3572, EISSN-1735-3645]
[Indexed in **DOAJ Open Access Journal**, **Scopus**, **Web of Science**][**UGC List of Journals-Sr. No. 21387**]

[Sighted in paper of **S.I. Martynov and L. Yu. Tkach** “Simulation of Particles Aggregate Dynamics in a Viscous Fluid” **Computational Mathematics and Mathematical Physics**, vol. 55, no. 2, 2015, pp. 282-290.]

[Sighted in the paper of **M. Krishna Prasad, Manpreet Kaur & D. Srinivascharya** “Slow steady rotation of an approximate sphere in an approximate spherical container with slip surfaces” **Published online in Int. J. Appl. Comput. Math.**(Springer), 02 March, 2016]

19. Steady Oseen flow past deformed sphere: an analytic approach(with **R.R. Yadav and Supriya Yadav**) **Journal of Theoretical and Applied Mechanics** Polish Society of Theoretical and Applied Mechanics, vol. 51, no. 3, 2013, pp. 661-673.[ISSN-1429-2955][Indexed & Abstracted in **Science Citation Index Expanded, Scopus, Web of Science**][UGC List of Journals-Sr. No. **11369**]

[Sighted in paper of **Bharat R. Jaiswal and Baliram R. Gupta** “Stokes flow of micropolar fluid past a non-newtonian liquid spheroid” **International Journal of Fluid Mechanics Research**, vol. 42, no. 2, 2015, pp. 170-189.]

20. Slow rotation of concentric pervious spheres in a viscous fluid
[with **R.R. Yadav & Supriya Yadav**] **The Archive of Mechanical Engineering**, vol. LX, No. 2, April-June 2013, pp. 165-183. [DOI: **10.2478/meceng-2013-0011**]
[ISSN-2300-1895, EISSN-0004-0738]
[Indexed in **DOAJ, Elsevier-Scopus, Pro Quest-Sci-Tech Journals etc., Web of Science**]

[Sighted in the paper of **M. Krishna Prasad, Manpreet Kaur & D. Srinivascharya** “Slow steady rotation of an approximate sphere in an approximate spherical container with slip surfaces” **Published online in Int. J. Appl. Comput. Math.(Springer)**, 02 March, 2016]

21. Osborne Reynolds: brief biography and an overview of his contribution [in **Hindi Anusandhan(Vigyan Shodh Patrika)**, vol. 1, no. 1, 2013, pp. 66-68[ISSN No. **2322-0708, EISSN-2350-0123**]
[<https://bsnvpcollege.co.in/vp/pdf/Anusandhan-Vigyan-Shodh-Patrika-Vol-1-No-1-2013.pdf>]
[<https://anushandhan.com/index.php/ANSDHN/article/view/1601/666>]
[UGC List of Journals-Sr.No.-45133, till May 03, 2018]

22. Oseen’s correction to optimized drag values in axi-symmetric Stokes flow(with **Nirmal Srivastava**) **Hindi version** published in **Anusandhan(Vigyan Shodh Patrika)**, vol. 1, no. 1, 2013, pp. 6-13[ISSN No. **2322-0708, EISSN-2350-0123**]
[<https://bsnvpcollege.co.in/vp/pdf/Anusandhan-Vigyan-Shodh-Patrika-Vol-1-No-1-2013.pdf>]
[<https://anushandhan.com/index.php/ANSDHN/article/view/1591/660>]
[UGC List of Journals-Sr.No.-45133, till May 03, 2018]

23. Quadratic flow past axially symmetric bodies at low Reynolds number: a new approach(with **Nirmal Srivastava & R.R. Yadav**)
Journal of Computational and Applied Mechanics [A Publication of Department of Mechanics, University of Miskolc, Miskolc, Hungary], vol. 9, no. 1, 2014, pp. 65-100.[HU-ISSN-1586-2070] [<http://www.mech.uni-miskolc.hu/jcam/>]
[Indexed in **ZbMath, Zbl 06476028, Zbl 1340.76027**]

24. Oseen's drag on axially symmetric arbitrary particle: a new approach (with **Nirmal Srivastava**) **Proceedings of the National Conference on "Role of Mathematics in Advancement of Science and Technology"** [NCRMAST-2013] held at Deptt. of Mathematics, B.S.N.V. Post Graduate College, Lucknow, U.P., India, during Oct. 18-20, 2013, pp. 154-177. [ISBN No.-978-81-928613-0-2] [Chapter in Edited Book/Proceedings]
25. Steady Stokes flow around deformed sphere. class of prolate axi-symmetric bodies (with **R.R. Yadav and Supriya Yadav**), **IJAMM**, vol. 9, no. 20, 2013, pp. 16-44 [http://ijamm.bc.cityu.edu.hk/ijamm/outbox/Y2013V9N20P16C88677615.pdf] [EISSN-0973-0184] [Indexed in **Math SciNet, ZbMath**]
26. Creeping flow past rotating axi-symmetric isolated body-class of deformed sphere (with **R.R. Yadav and Supriya Yadav**) **Published in Journal of the Brazilian Society of Mechanical Sciences and Engineering**, **Published On line DOI: 10.1007/s40430-014-0239-7** [ISSN-1678-5878, EISSN-1806-3691] **Hard Copy Print in vol. 37, no. 4, 2015, pp. 1199-1225.** [Impact Factor-2014-0.49] [Indexed in **PRESCOPUS, Russia, Scopus, Google scholar, SciMago etc.**] [UGC List of Journals-Sr. No.-10932]
- Cited in:** "Cell models for viscous fluid past a micropolar fluid spheroidal droplet" by Krishna Prasad Madasu & Manpreet Kaur, **Journal of the Brazilian Society of Mechanical Sciences and Engineering** 40(2), 2018, DOI:10.1007/s40430-018-1034-7]
27. Steady quadratic Stokes flow past deformed sphere: a novel perturbation technique (with **Nirmal Srivastava and R.R. Yadav**) **Published in Applications and Applied Mathematics-An International Journal**, vol. 9, no. 2, December 2014, pp. 718-762. [SciNet- MR3294592] [EISSN-1932-9466] [UGC List of Journals-Sr. No.-47348] [Indexed in **Web of Science, DOAJ, Math SciNet, ZbMath, zb1 1309.76068**]
28. Oseen's correction to Stokes drag on axially symmetric arbitrary particle in transverse flow: a new approach (with **Nirmal Srivastava**) **Published in Theoretical and Applied Mechanics, Belgrade, Serbia, TEOPM7**, vol. 41, no. 3, 2014, pp. 177-212. [D.O.I.: 10.2298/TAM1403177S] [ISSN-1450-5584] [Indexed in **Mathematical Reviews- Math SciNet, ZbMath, Scopus, Web of Science**]
29. Oseen's correction to Stokes drag on axially symmetric particle in micropolar fluid (with **R.R. Yadav and Nirmal Srivastava**) published in online **IJAAMM**, vol. 3, no. 3, 2016, pp. 41-78. [www.ijaamm.com] [UGC List of Journals-Sr. No. 47437] [Indexed in **MathSciNet/Mathematical Reviews**] [Valid till May 03, 2018] [ISSN: 2347-2529]

30. Sir George Gabriel Stokes: brief biography and a review over his contribution in Physics and Hydromechanics (with **Bhanu Pratap Singh**)(in Hindi), **Anusandhan Vigyan Shodh Patrika**, Vol. 5, No. 1, 2017, pp. 84-88.

[<https://bsnvpcollege.co.in/vp/pdf/Anusandhan-2017-final-pdf-20nov17.pdf>][**D.O.I. : 10.22445/avsp.v5i01.9854**]

[<https://anushandhan.com/index.php/ANSDHN/article/view/1210/870>]

[**UGC List of Journals-Sr.No.-45133, till May 03, 2018**]

31. Oseen's correction to Stokes drag revisited (with **Nirmal Srivastava**) published in **International Journal of Current Advanced Research**, ISSN: O: 2319-6475,ISSN: P: 2319- 6505, Impact Factor: SJIF: 5.995, Volume 7; Issue 2(B); February 2018, Page No. 9729-9737 [DOI: 10.24327/ijcar.2018.9737.1622][**UGC List of Journals-Sr.No.-43892, till May 03, 2018**]

32. Reynolds Number: a brief review and its importance in fluid flow
Research Cell-An International Journal of Engineering Science, Special Issue-Vol. 31, Jan. 2019, pp. 100-106, ISSN: 2229-6913(Print), ISSN: 2320-0332(Online).
[<http://ijoes.vidyapublications.com/paper/Vol31/15-Vol31.pdf>]

33. Stokes drag on axially symmetric body in micro polar fluid, published in **AAM-An International Journal**, vol. 15, no. 1, June 2020, pp. 508-529. [Editor-Ali Akbar Haghghi][**Indexed in Scopus, Web of Science, Zentralblatt Germany etc.**] [**SJIF 2020: 7.835**][ISSN: 1932-9466 (E)]

[https://www.pvamu.edu/aam/wp-content/uploads/sites/182/2020/06/30-R966_-AAM_Srivastava_DS_110316_Posted_060420.pdf]

34. A note on Stokes drags in the perspective of Newtonian and Micro-polar fluid, **IOSR-Journal of Mechanical and Civil Engineering**, Vol. 17, No. 3, Ser. IV, May-June 2020, pp. 48-54[**AQCJ Impact Factor: 8.02**][e-ISSN: 2278-1684,p-ISSN: 2320-334X]

<https://www.iosrjournals.org/iosr-jmce/papers/vol17-issue3/Series-4/E1703044854.pdf>

35. Slowly vibrating axially symmetric bodies-transverse flow
International Journal of Applied Mechanics and Engineering, The Journal of University of Zielona Góra(Sciendo-Walter De Gruyter), Int. J. of Applied Mechanics and Engineering, 2021, vol.26, No.1, pp.226-250 [DOI: 10.2478/ijame-2021-0014][EISSN: 2353-9003]

<https://sciendo.com/article/10.2478/ijame-2021-0014>

36. Oseen's correction to Stokes drag in the perspective of Newtonian and Micro-polar fluid: a technical note, **Journal of Fluid Dynamics, scholars direct**, Review Article | Volume 2 | Issue 1 | DOI: 10.36959/717/658

[**Accepted:** October 28, 2021 | **Published Online:** October 30, 2021]

<https://scholars.direct/Articles/fluid-dynamics/jfd-2-002.php?jid=fluid-dynamics>

37. Relation between viscosity coefficient, micro-polar parameter and Hartmann number- a technical note, **Civil Engineering Research Journal**, published online 18-11-2022.[ISSN: 2575-8950][DOI: 10.19080/CERJ.2022.13.555862] [Juniper Publishers] Vol. 13, No. 3, November 2022, pp. 1-6.[Submission: October 10, 2022; Accepted/Published: November 18, 2022]

38. "भारतीय संख्याओं का उद्भव, इतिहास तथा महत्व", विज्ञान गरिमा सिंधु, सी0एस0टी0टी0, भारत सरकार, [ISSN: 2320-7736], अंक-120, जनवरी-मार्च, 2022, मु0पृ0 1-13। (यू0जी0सी0 केयर लिस्ट जर्नल, क्र0सं0-44)

ACCEPTED

39. Transverse Stokes slip flow past an axially symmetric bodies: a new approach
To be resubmitted in Journal of Theoretical and Applied Mechanics[Accepted-02-07-2025]

COMMUNICATED

40. Slow rotation of axially symmetric bodies with sink at its center [**to be resubmit after revision**]

41. Axial Stokes slip flow past an axially symmetric bodies: a new approach
Submitted for Publication in Archive of Mechanical Engineering, Dated: 21-05-2025[AME-01376-2025-01]

General Science Articles

42. "**Power and utility of mathematical modeling**" Published in annual magazine '**Vivek**' of B.S.N.V. Post Graduate College (University of Lucknow, Lucknow), 2004-2005, pp.116-119.

43. "**Mathematics in nature: a modeling pattern in natural world**" Published in annual magazine '**Vivek**' of B.S.N.V. Post Graduate College (University of Lucknow, Lucknow), 2005-2006.

44. "**Magic of numbers: Applications in Computers**"
Published in annual magazine '**Vivek**' of B.S.N.V. Post Graduate College(University of Lucknow, Lucknow), 2006-2007.

45. "गणितीय नमूने की शक्ति एवं उपयोगिता" प्रकाशित, विज्ञान गरिमा सिंधु, सी0एस0टी0टी0, भारत सरकार, अंक 58, जुलाई-सितम्बर 2006, पृ0 1-5(आई.एस.एस.एन.- 2320-7736)।

46. "**Nature: under the grip of mathematical modeling**" communicated for the publication in **EVERYMAN'S SCIENCE (The Indian Science Congress Association)** under the section of general articles.

47. “**Condition of Female Children’s in India : a mathematical analysis**” communicated for publication in Economic & Political Weekly of India Magazine, Mumbai.
48. “**Indian Mathematics: A Golden Past**” Published in annual magazine ‘**Vivek**’ of B.S.N.V. Post Graduate College (University of Lucknow, Lucknow) , 2007-2008.
49. “**Nanotechnology: a technology of twenty first century**” Published in annual magazine ‘**Vivek**’ of B.S.N.V. Post Graduate College(University of Lucknow, Lucknow), 2009-2010.
50. “**History of Fluid Mechanics**” Published in annual magazine ‘**Vivek**’ of B.S.N.V. Post Graduate College(University of Lucknow, Lucknow) , 2011-2012.
51. “**भारतीय गणित: एक सुनहरा अतीत**” प्रकाशित विज्ञान गरिमा सिंधु, सी0एस0टी0टी0, भारत सरकार, संयुक्तांक 86–87, जुलाई–दिसम्बर, 2013, पृ0 4–10(आई.एस.एस.एन.– 2320–7736)।
52. Book review of “ज्यामिति(द्विविमीय एवं त्रिविमीय)” submitted to विज्ञान गरिमा सिंधु, University News, Current Science, Resonance, Eklavya(Sandarbh and Srot) published from Bhopal, M.P., Vigyan(Vigyan Parishad, Prayag)
53. “**Mathematics and Career**” submitted for college magazine “**Vivek-2014-2015**”[ISBN: 978-81-927610-0-8] pp. 68-73.
54. “**देश में हिन्दी की स्थिति एवं प्रगति**” published in college magazine “**Vivek-2017**” [ISBN: 978-81-927610-0-8] pp. 03-07.
55. “**कृत्रिम बुद्धिमत्ता**”, अनुसंधान विज्ञान शोध पत्रिका, खण्ड–7, अंक–1, वर्ष–2019, मु0पृ0 136–141।
[<https://bsnvpgcollege.co.in/vp/pdf/Anusandhan-2019.pdf>]
[<https://www.anushandhan.in/index.php/ANSDHN/article/view/1300/962>]
56. “**हर्ड इम्युनिटी**”, अनुसंधान विज्ञान शोध पत्रिका, खण्ड–8, अंक–1, वर्ष–2020, मु0पृ0 176–179।
[<https://bsnvpgcollege.co.in/vp/pdf/Anusandhan-2020.pdf>]
[<https://www.anushandhan.in/index.php/ANSDHN/article/view/1699/990>]
57. “**कोरोना वायरस के विभिन्न स्वरूप व उनके प्रभाव–एक व्यापक समीक्षा**”, अनुसंधान विज्ञान शोध पत्रिका, खण्ड–9, अंक–1, वर्ष–2021, मु0पृ0 81–88।
[<https://bsnvpgcollege.co.in/vp/pdf/Anusandhan-2021.pdf>]
[<https://www.anushandhan.in/index.php/ANSDHN/article/view/1720/1031>]
58. “**गणित की शाखाएं–महत्व एवं अनुप्रयोग**”, बी0एस0एन0वी0 पी0जी0 कॉलेज, लखनऊ, की वार्षिक मैगजीन “**विवेक**”, संस्करण–2021–22 में प्रकाशित।[ISBN: 978-81-927610-0-8]