

DR. SARGAM WASU
Assistant Professor (Selection Grade)
Department of Mathematics
GGSDS COLLEGE Chandigarh
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DOB: 15th September 1977

Educational Qualifications

Ph.D. in Applied Mathematics

I. K. Gujral Punjab Technical University, Kapurthala, India (2015)
PhD Thesis: Steady and Unsteady Laminar flows of Viscous Incompressible Fluid.

Ph.D. Supervisor: Prof. S. C. Rajvanshi (Former Dean, PEC, Chd.)

Qualified U. G. C. (NET) in Mathematics

M.Phil. (Mathematics)-Correspondence Department of Mathematics, Kurukshetra University, Kurukshetra, India (2001-2002)

M.Sc. (Hons.)-with distinction – Department of Mathematics, Panjab University, Chandigarh, India (1998-2000)

B.Sc. (Hons.)- Department of Mathematics, Panjab University, Chandigarh, India (1995-1998)

Teaching/Research Experience

- 15th May 2013- till date
Assistant Professor in Department of Mathematics, GGSDS College, Chandigarh
Teaching Calculus, Algebra, Mechanics, Analysis at Under-graduate and Post-graduate level.
- 1st July 2005 – 14th May 2013
Associate Professor in Department of Applied Sciences, Rayat & Bahra University, Muzaffarnagar
Taught Higher Engineering Mathematics to B.Tech and M.Tech students.
- 1st August 2001-10th June 2005
Assistant Professor in Department of Applied Sciences, I.E.T., Bhattal, Ropar
2nd August 2000-18th May 2001
Assistant Professor in Department of Mathematics, S.U.S.C.E.T., Tangori

Areas of Interest

- Fluid Dynamics

Publications (Journal/Book Chapters)

- **Journal Publications:**
- Sargam Wasu and S.C. Rajvanshi, Unsteady MHD flow past a porous plate with heat absorption and gravity modulation, *Advances and Applications in Fluid Mechanics* (2010). Vol.8, pp. 129-139. (Scopus Indexed International Journal) ISSN 0973-4686.
- Sargam Wasu and S.C. Rajvanshi, g-jitter induced MHD flow past a porous plate with heat absorption and oscillating suction, *International Journal of Energy and Technology* (2012), Vol. 4 (14) pp. 1-10. ISSN 2035-911X.

- Sargam Wasu and S.C. Rajvanshi, Stokes flow past a non-homogeneous deformable porous shell with velocity slip, *AMSE Journal of Modelling, Measurement & Control*, (2013), Vol. 82, pp. 39-54. **(Journal Indexed in 7 databases)**
- Sargam Wasu and S.C. Rajvanshi, Slow extensional flow past a non-homogeneous porous spherical shell, *International Journal of Applied Mechanics and Engineering* (2013), vol.18 (2), pp. 491-502. **ISSN 1425-1655. (Impact factor- 1.35)**
- Sargam Wasu and S.C. Rajvanshi, MHD flow past an infinite plate under the effect of gravity modulation, **Mathematics in Science and Technology**, *Proceedings of ICM-2010* by **World Scientific Publishers** (2011).pp. 512-523. ISBN-10-981-4338-81-8
- Sargam Wasu and S.C. Rajvanshi, Free convection flow past an impulsively started infinite vertical porous plate with constant heat flux and gravity modulation, *Bulletin of Pure and Applied Mathematics* (2012), Vol.6, pp. 110-121. **ISSN 0973-5933.**
- M.M. Rashidi, M. Keimanesh, S.C. Rajvanshi, S. Wasu, Pulsatile flow through annular space bounded by an outer porous cylinder and an inner cylinder of permeable material, *International Journal for Computational Methods in Engineering Science and Mechanics* (2012), Vol. 13, pp.381-391. **ISSN 1550-2287.**
- Sargam Wasu, S.C. Rajvanshi, and B. S. Saini, Entropy generation and Heat transfer in MHD Squeezing Flow in porous medium bounded by two parallel rotating plates with heat flux, *Acta Technica* (2013), vol.58 (2), pp. 207-221. **ISSN 0001-7043. (Impact Factor-0.214)**
- S. C. Rajvanshi, B. S. Saini and Sargam Wasu, Heat transfer and Entropy generation on MHD Squeezing Flow between two parallel rotating plates using Brinkman Model, *Journal of Rajasthan Academy of Physical Sciences* (2013), Vol.12 (2), pp.1-20. **ISSN 0972-6306.**
- S.C. Rajvanshi and Sargam Wasu, Heat transfer in MHD Squeezing Flow using Brinkman Model, *Walailak Journal of Science and Technology* (2014), Vol. 11. pp.931-938. **ISSN-1686-3933 (Impact Factor-0.34)**

**Seminars/
Conferences/Symposiums
(Paper Presented)**

- Paper titled '*MHD flow past an infinite plate under the effect of gravity modulation*' presented at **International Congress of Mathematicians 2010** held from 14th -17th Aug'2010 at New Delhi.
- Paper titled '*Free convection flow past an impulsively started infinite vertical porous plate with constant heat flux and gravity modulation*' presented at **15th Punjab Science Congress 2012** held from 7th – 9th Feb'2012 at Amritsar.
- Paper titled '*Heat transfer and entropy generation on MHD squeezing flow between two parallel rotating plates using Brinkman model*' presented at **57th Congress of ISTAM** held at Pune from 17th -22nd Dec2012.
- Paper titled '*The effect of radiation on squeeze flow between parallel rotating permeable disks*' presented at **17th Punjab Science Congress** under the aegis of Punjab Academy of Sciences held from 14th-16th Feb 2014 at PTU, Kapurthala.
- Paper titled '*The effect of gravity modulation on flow past a moving porous plate*' presented at **National Seminar - Cynosure 2015** held at **I.I.T. Ropar** on 7th Nov 2015.

Citations-26, h-index-3

**Refresher
Courses/Workshops/
Training Programmes**

- **Refresher Course** on India Studies, organised by HRDC ,PU, Chd from 10th October 2019 to 23rd October 2019
- **FDP** on Subject Specific Benchmarking of Learning Outcomes , organised by GAD-MMTTC, New Delhi from 26th October to 1st November 2023
- **FDP** on Re-engineering the role of teachers as mentors, organised by HRDC, PU, Chd from 22nd July 2021 to 28th July 2021.
- **FDP** -The root to mental health organized by HRDC, PU- Chandigarh from 5th December 2020 to 11th December 2020.
- Attended *National Conference on Industrial Mathematics & Engineering Computation* held from 28th -29th March 2003 at IET , Bhattal.
- Attended *National Conference on Frontiers in Applied & computational Mathematics* held in March 2005 at Thapar Institute of Engg.& Technology, Patiala .
- Attended workshop on 'Advanced Numerical Analysis Using MATLAB' held at Chitkara University from 13th -14th Nov, 2011.

- **FDP** on 'Implications of Nanoscience' sponsored by PTU, Jalandhar from 2nd July - 6th July 2012.
- Attended 'National Seminar on Emerging Trends in Information Technology Challenges and Strategies' on 31st January 2014, organised by PG Department of Information Technology and held at G.G.D.S.D. College, Sector-32, Chandigarh.
- Attended **One Week Faculty Development Programme** from 17th May to 23rd May 2014 held at G.G.D.S.D. College, Sector-32, Chandigarh.
- Attended **Instructional Skills Workshop** from 14th Oct to 21st Oct 2015 at G.G.D.S.D. College, Sector-32, Chandigarh.

Invited Talks

- Delivered expert talk on the occasion of "National Mathematics Day Celebrations" at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib. Punjab in 2019 and 2021.

Administrative Experience

- Dean Foreign Students, Examination In-charge, Academic In-charge, HOD Applied Science.
- Organising member and Convenor for various college functions,
- Empaneled as Academic Counsellor with Indira Gandhi National Open University, New Delhi.
- Member Undergraduate Board of Studies in Mathematics, Panjab University, Chandigarh.
- Superintendent and Deputy Superintendent for Panjab University Examinations.

Membership of Associations

- Life member of Indian Society for Industrial & Applied Mathematics (ISIAM).
- Life member of Punjab Academy of Sciences.
- Life member of Indian Society of Theoretical and Applied Mechanics (ISTAM).

Awards and Honours

- Nation Builder award on the occasion of Teacher's Day-5th September, 2023, by Rotary Club, Panchkula.

Dr. SARGAM WASU