Proforma

Name: – Dr. Atul Kumar Singh

Designation: – Professor

Department: – Mathematics

College Name: – V.S.S.D. College, Kanpur

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Area of Research: - Fluid Mechanics, Numerical Analysis

Educational details: -

- **D.Sc.** from Dr. B.R.A. University, Agra in 2003
  Title: On Convective Flow of Incompressible Fluids
- **Ph.D.** from Agra University, Agra in 1992.
  Thesis Title: A Study of MHD Flow of Incompressible Viscous and Visco-Elastic Fluids.

Teaching Experience: - 30 Years Teaching Experience in UG and PG Level.

Book Published:

1. R. K. Srivastava, **A.K. Singh** and Arun Kumar Singh, Differential Equations and Integral Transforms, 2016, Golden Valley Publications, Agra-7, ISBN: 978-93-84804-14-5.

2. A.K. Singh, Differential Calculus, 2018, Krishna Prakashan Media (P) Ltd., Meerut, ISBN: 938770516-1.

Some Recent Research Papers published in international/ national Journals: -

1. **Atul Kumar Singh,** Effect of Mass Transfer on MHD free Convective Flow of a Viscous Fluid Through a Vertical Channel. Journal of Energy, Heat and Mass Transfer, 22, 41-46, 2000.
2. **Atul Kumar Singh,** MHD free Convection and Mass Transfer Flow with Heat Source and Thermal Diffusion, Journal of Energy, Heat and Mass Transfer, 23, 227-249, 2001.
3. **Atul Kumar Singh,** MHD free Convective Flow through a Porous Medium between Two Vertical Parallel Vertical Plates, Indian Journal of Pure & Applied Physics, 40, 709-713, 2002.
4. **Atul Kumar Singh,** Heat Transfer in Generalized Couette Flow of two Immiscible Incompressible Viscous Fluids, Journal of MANIT, 36, 2003.
5. **Atul Kumar Singh,** Effect of Mass Transfer on Free Convection in MHD Flow of a Viscous Fluid, Indian Journal of Pure & Applied Physics, 41, 262-274, 2003.
6. **Atul Kumar Singh,** Three Dimensional Free Convection Flow of a Viscous Fluid Through Porous Medium with Time Dependent Suction Velocity, Journal of Energy, Heat and Mass Transfer, 25, 315-331, 2003.
7. **Atul Kumar Singh,** Numerical Solution of Free Convection Flow of a Micro-Polar Fluid Past a Porous Vertical Plate, Indian Journal of Pure & Applied Physics, 41, 936-940, 2003.
8. **Atul Kumar Singh,** Convective Flow of two Immiscible Viscous Fluids using Brinkman Model, Indian Journal of Pure & Applied Physics, 43, 415-421, 2005.
9. **Atul Kumar Singh,** Free Convective Flow of Magneto-Polar Fluids Past a Porous Vertical Wall Embedded in Non-Homogeneous Porous Medium in Slip Flow Regime, International Journal of Fluid Mechanics Research, 36, 357-374, 2009.

Research supervised at Doctorate level: - 06

Administrative Experience- Head, Department of Mathematics Since 2010 to 2025.