Dr Neha Phogat

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EDUCATION

Ph.D. in Applied Mathematics — 2024, MDU Rohtak

Topic - Modelling of Two Layered Blood Flow through Constricted Arteries

NET in Mathematics, CSIR – June 2018

M.Sc. (Hons.) Mathematics - 74.5%, 2018, Dept. of Mathematics, MDU Rohtak

B.Sc. (Hons.) Mathematics - 74.6%, 2016, Dept. of Mathematics, MDU Rohtak

12th - 80.80%, 2013, CBSE

10th - 95.80%, 2011, BSEH, Bhiwani'

EXPERIENCE

Assistant Professor (on contract), Dept. of Mathematics, MDU-Rohtak — 2019-present
Teaching experience of UG and PG students in the field of Applied Mathematics.

PUBLICATIONS

Analysis of Two-Layered Model of Blood Flow Through Stenosed Tube with Permeable Walls in the Presence of Magnetic Field Considering Blood as Couple Stress Fluid with Variable Viscosity and Slip Velocity, *Tuijin Jishu / Journal of Propulsion Technology* Scopus, Vol. **44**, No. **4**, **pp. 3602–3612**, 2023.

Lipid Concentration Effects on Blood Flow Through Stenosed Tube, *Lecture Notes in Networks and Systems,* Scopus, Vol. **682**, No. **2**, **pp. 21–31**, 2023.

The Effects of Lipid Concentration on Blood Flow Through Constricted Artery Using Homotopy Perturbation Method, *Lecture Notes in Networks and Systems,* Scopus, Vol. **681**, No. **1**, **pp. 69–80**, 2023.

A Note on Separation Theorem and Continuous Linear Functionals, *International Journal of Theoretical & Applied Sciences* (Peer-Reviewed), Vol. **11**, No. **1**, **pp. 64–67**, 2019.

Flow Characteristics in Constricted Arteries: A Comprehensive Review, *International Journal on Emerging Technologies* (Peer-Reviewed), Vol. **10**, No. **1**, **pp. 239–241**, 2019.

Mathematical Evaluation of Arterial Flow in Human Body, *International Journal of Research in Engineering and Applied Sciences (IJREAS)* (Peer-Reviewed), Vol. **9**, No. **4**, **pp. 52–58**, 2019.

Modelling of Blood Flow Through Stenosed Tube with Permeable Walls in the Presence of Magnetic Field and Nanoparticles, Considering Blood as Elastic Viscous Fluid, *Journal of Harbin Engineering University* (Scopus), Vol. **44**, No. **7**, **pp. 1182–1189**, 2023.

Splines and Special Functions to Solve Boundary Value Problems in Differential Equations, *Journal of Information Systems Engineering and Management* (Scopus), Vol. **10**, No. **3**, **pp. 1912–1926**, 2025.

COMPUTER SKILLS / CERTIFICATIONS

- Hartron's Diploma in Computer Applications, August 2018, HSEDC, Govt. of Haryana