Dr Sujatha Nagaraj

Curriculum Vitae

Current Status

2019-Present *Assistant Professor* at B.M.S. College of Engineering, Bengaluru, India 560 019 since August 11, 2014.

Doctoral Thesis

Title: Convection in Chiral Fluids

Supervisor: **Dr. N. Rudraiah**

University: Bangalore University, Bengaluru, Karnataka, India.

Status: Awarded on: 2014.

Education

2007–2009 **Masters of Science**, *Central College, Bangalore University*, Bangalore, India.
Class:Distinction.

2004–2007 **Bachelor of Science**, *Vidya Vardhaka First Grade College for Women, Bangalore University*, Bengaluru, India.
Class: Distinction.

2002–2004 **Pre-University College**, *Sri Aurobindo First Grade College for Women, Bangalore University*, Bengaluru, India.
Class: First Class.

2002 **SSLC**, *Deena Seva Vidya Mandir* , Bengaluru, India.
Class: Distinction.

Awards and Fellowships

2016 " **SAP Award of Excellence**"for being one of the top performers in the FDP by IIT, Bombay on "Use of ICT in Education for Online and Blended Learning"

2010–2012 Worked as "**Junior Research Fellow**" in the Major Research Project "**Mathematical Modelling of Electromagnetic Waves and Stability in Chiral Fluids with Emphasis on Developing Efficient Antennas and Artificial Organs**" funded by ISRO under the Supervision of Dr N.Rudraiah from April 2010 to June 2012.

2007 " **DR KARJAGI GOLD MEDAL** " for securing highest marks in chemistry (B.Sc.)

Teaching Experience

1 Presently, working as **Assistant Professor** in the Department of Mathematics at **B. M. S. College of Engineering (BMSCE)** from August. 2014 to till date

2 Worked as **Assistant Professor** in the Department of Mathematics at **Nitte Meenakshi Institute of Technology (NMIT)** from August. 2012 to August 2014.

3 Worked as **Teaching Assistant** in the Department of Mathematics at **University of Visveswaraya College of Engineering (UVCE)** from April. 2010 to June. 2012

Subjects Taught

UG: Engineering Mathematics (UVCE and Autonomous Syllabus in BMSCE and NMIT)

Administrative Experience

1 Worked as **Coordinator** for I Semester Valuation unit for the Academic year 2018-19 examinations.

2 Worked as **Coordinator** for II Semester Valuation unit for the Academic year 2018-19 examinations.

Publications

1 N. Rudraiah and **Sujatha N.** Effects of Variation of Viscosity and Viscous Dissipation on Oberbeck Magnetoconvection in a Chiral Fluid, Journal of Applied Fluid Mechanics (2013)

2 N. Rudraiah and **Sujatha N.** Effects of Temperature Dependent Viscosity and Coriolis Force on Oberbeck Convection in a Chiral Fluid in the Presence of Magnetic Field, International Journal of Fluid Mechanics (2012)

3 N. Rudraiah, Mallika K.S. and **Sujatha N.** Electro hydrodynamic Dispersion with Inter-phase Mass Transfer in a poorly Conducting Couple Stress Fluid Bounded by Porous Layers, Journal of Applied Fluid Mechanics (2014)

4 Gayathri M. S., Chandrashekara G. and **Sujatha N.** Onset of electrothermoconvection in a dielectric fluid saturated porous medium in a modulated electric field, Procedia Engineering (2015)

5 N. Rudraiah and **Sujatha N.** Double Diffusive Oberbeck Convection in a Chiral Fluid in the Presence of Chemical Reaction and Thermal Radiation, International Journal of Applied Mathematics and Engineering (2012)

6 Mallika k. S., **Sujatha N.** and Chandrashekara G. Electrorheological Generalized Dispersion of Soluble Matter through a Poorly Conducting Fluid Saturated Porous Media, Caspian Journal of Applied Sciences Research (2016)

7 Chandrashekara G., Gayathri M.S. and **Sujatha N.** and Effect of electric and magnetic fields on the growth rate of Kelvin-Helmholtz instability, Special Topics and Reviews in Porous Media- An International journal (2019)

Areas of Interests

- Fluid Mechanics
- Numerical Simulation
- Computational Fluid Dynamics