

## **Basic Details:**

- **Name:**Dr.S.Sangeetha
- **Designation:**AssistantProfessor
- **PhoneNumber:**9952452233
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- **Areaor Subject:**Mathematics/Fluid Dynamics
- **Affiliation:**Departmentof Mathematics,SRMInstituteofScienceand Technology, Ramapuram.

## **Educational Details:**

- **Degree, University, Awarded Year**
  - B.Sc., Mathematics, Madras University, 2012, Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous), Chennai, Tamilnadu.
  - M.Sc., Mathematics,SRM University,2014, SRM Institute of Science & Technology, Kattankulathur, Tamilnadu.
  - Ph.D., SRM University, 2021, SRM Institute of Science and Technology,Kattankulathur, Tamilnadu.

## **Research Interests:** Fluid Dynamics

### **Publications:**

- Sangeetha Sekar, Sujatha Elamparithi, Sivakami Lakshmi Nathan, and Lakshmi Priya . "Effect of MHD with Micropolar Fluid Between Conical Rough Bearings." Journal homepage: <http://iieta.org/journals/ijht> 40, no. 5 (2022): 1210-1216.
- Sivakami, L., P. Balasowandari, and S. Sangeetha. "Oscillatory Flow In Two Immiscible Fluids With Heat And Mass Transfer Under A Chemical Reaction In A Horizontal Channel." JP Journal of Heat and Mass Transfer 27 (2022): 57-76.
- Govindarajan, A., and S. Sangeetha. "Effect of magneto hydrodynamic using micropolar fluid between rough annular plates." In AIP Conference Proceedings, vol. 2516, no. 1. AIP Publishing, 2022.
- Govindarajan, A., and S. Sangeetha. "Non-Newtonian couple stress fluid with MHD and viscosity variation in conical bearings." In AIP Conference Proceedings, vol. 2516, no. 1, p. 170025. AIP Publishing LLC, 2022.

- Sangeetha, S., A. Govindarajan, and E. Sujatha. "Effect of roughness on porous triangular plates with MHD and viscosity variation." In AIP Conference Proceedings, vol. 2277, no. 1. AIP Publishing, 2020.
- Sangeetha S and Govindarajan A, "Analysis of Viscosity Variation with MHD on Circular Stepped Plates in Couple Stress Fluid", Journal of Interdisciplinary Mathematics, Taylor & Francis, (ESCIE),2019 Dec 18;22(6):889-901.
- Sangeetha, S., and Sundarammal Kesavan. "Pressure distribution with surface roughness for effect between porous infinitely long rectangular plates with MHD couple stress squeeze film lubrication." In Journal of Physics: Conference Series, vol. 1000, no. 1, p. 012006. IOP Publishing, 2018.
- Sangeetha S and Sundarammal Kesavan, "Squeeze Film Characteristics of Infinitely Long Rectangular Plates Lubricated by Incompressible Second-Order Fluid, International Journal of Pure and Applied Mathematics. 2017, Volume 113
- Sangeetha S and Sundarammal Kesavan, "Effect of Velocity Slip and Frictional Force of Porous Triangular Plates Lubricated with Couple Stress Fluids, International Journal of Pure and Applied Mathematics. 2016 dec; 111(4):535-44.

#### **Academic Experience:**

- Working as Assistant Professor in SRM Institute of Science and Technology, Ramapuram, Chennai from 13<sup>th</sup>September 2021 to till date.

#### **Other Professional Experience:NIL**

#### **Other Details:**

#### **Achievements and Awards:**

- Completed"Group Dynamics" NPTEL Online Certification Course with Elite (66%, 12-week Course) – 2023.
- Completed"Transform Calculus and Its Applications in Differential Equations" NPTEL Online Certification Course (60%,12-week Course) – 2023.
- Completed"Engineering Mathematics II" NPTEL Online Certification Coursewith Elite (60%, 12-week Course) – 2022.
- Completed"Transform Calculus and Its Applications in Differential Equations" NPTEL Online Certification Course with Elite (60%, 12-week Course) – 2022.

#### **PapersPresented in international/national conferences:**

- Govindarajan A, **Sangeetha S**. Effect of magneto hydrodynamic using micropolar fluid between rough annular plates. Proceedings of the International conference on recent trends in mathematics and its applications, at SRM Institute of Science and Technology, Kattankulathur (2021).
- Govindarajan A, **Sangeetha S**. Non-Newtonian couple stress fluid with MHD and viscosity variation in conical bearings. Proceedings of the International conference on recent trends in mathematics and its applications, at SRM Institute of Science and Technology, Kattankulathur (2021).
- **Sangeetha S** and Govindarajan A and Sujatha E, “Effect of Roughness on Porous Triangular Plates with MHD and Viscosity Variation”, Proceedings of the International conference on recent trends in mathematics and its applications, at SRM Institute of Science and Technology, Kattankulathur (2020).
- **Sangeetha S** and Sundarammal Kesavan, “Effect of Load Carrying Capacity and Pressure Distribution with Viscosity Variation and Velocity Slip Using Couple Stress Fluid for Porous Triangular Plates with MHD”, Proceedings of the national conference on recent trends in mathematics and its applications, at SRM Institute of Science and Technology, Kattankulathur (2019).
- **Sangeetha S** and Sundarammal Kesavan, “Pressure Distribution with Surface Roughness for Effect Between Porous Infinitely Long Rectangular Plates with MHD Couple Stress Squeeze Film Lubrication”, Proceedings of the national conference on recent trends in mathematics and its applications, at SRM Institute of Science and Technology, Kattankulathur (2018).
- **Sangeetha S** and Sundarammal Kesavan, “Squeeze Film Characteristics of Infinitely Long Rectangular Plates Lubricated by Incompressible Second-Order Fluid”, Proceedings of the national conference on mathematical techniques and its applications, at SRM Institute of Science and Technology, Kattankulathur (2017).

#### **Seminars, Webinars, Workshops and Conferences Attended:**

- Attended one-week international FDP on “Mathematics in Real Applied and Computational Domains” organized by Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology from 03.07.2023 to 08.07.2023
- Attended an International Virtual Workshop on “Mathematical Modeling of Oncolytic Virotherapy” organized by SRMIST, Ramapuram on 24.04.2023.
- Attended an International Virtual Webinar on “Introduction to Normed Linear Spaces” organized by SRMIST, Ramapuram on 03.04.2023.
- Attended FDP of NPTEL Online certification on “Group Dynamics” during the month of April 2023.
- Attended FDP of NPTEL Online certification on “Transform Calculus and Its Applications in Differential Equations” during the month of April 2022.
- Participated in the one-week FDP on “Recent Trends in Mathematics and its applications” organized by AICTE - Skill and Personality Development Center and Department of Mathematics at Sathyabama Institute of Science and Technology from 06.02.2023 to 11.02.2023.
- Attended three days International Virtual Workshop on “Applied Mathematics” organized by SRMIST, Ramapuram from 06.02.2023 to 08.02.2023.

- Attended an Expert talk on “Number theory and its Applications” as a part of Ramanujan Day-2022, organized by the Department of Mathematics, SRMIST, Ramapuram, Chennai on 23<sup>rd</sup> of December 2022.
- Attended FDP of Meerut Institute of Engineering and Technology, Meerut, Department of Electronics and Communication Engineering on Applications of Advanced Computing Techniques from 02.03.2022-06.03.2022
- Participated in the two weeks online International FDP on Current Trends in Mathematics organized by Vel Tech Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology from 21-09-2022 to 04-10-2022

**Membership:** IAENG Membership, Membership Number:339407

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