

### **Basic Details:**

- **Name:** B. Muthu Deepika
- **Designation:** Assistant Professor
- **Phone Number:** 8428734836
- **Email ID:** muthudeb@srmist.edu.in
- **Area or Subject:** Mathematics
- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

### **Educational Details:**

- **Degree** – B.Sc., M.Sc., Ph.D(pursuing).
- **Area or Subject** – Queueing Theory
- **University**

Ph. D. Mathematics – Submitted thesis, Anna University, Chennai, Tamil Nadu.

M.Sc. Mathematics – 2016, Queen Mary’s College, Madras University, Chennai, Tamil Nadu.

B.Sc. Mathematics – 2010, Women’s Christian College, Madras University, Chennai, Tamil Nadu.

### **Research Interests:**

Queueing theory

### **Publications:**

- Sophia. S & Muthu Deepika. B 2020, ‘Stationary Solution of a Fluid Queue Driven by a Queue with Chain Sequence Rates and Controlled Input’, Studia Scientiarum Mathematicarum Hungarica, vol. 57, no. 4, pp. 552-565.
- Sophia. S, Muthu Deepika. B & Anantha Lakshmi. SR, ‘Analysis of a Fluid Queue Driven by a Queue with Multiple Exponential Vacations and Impatient Customers’, Bulletin of Mathematical Analysis and Applications, vol. 12, no. 2, pp. 1-13.

- Sophia. S & Muthu Deepika. B, ‘Analysis of a Fluid Queue Modulated by a Queue with Vacations in Random Environment, AIP conference proceedings.

**Papers Presented in international/national conferences:**

- Presented two papers titled “Cloud Storage Facility-Modelled as a Fluid Queue Driven by an M/M/1 Queue” and “Analysis of a Fluid Queue Modulated by a Queue with Vacations in Random Environment” in “International Conference on Recent Advances in Mathematics and Computational Engineering (ICRAMCE22)” Department of Mathematics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, during January 06-07, 2022.
- Presented paper titled “Exact solution of a fluid queue with chain sequence rates and controlled input” in “International Conference on Mathematical Methods, Modeling and Simulation in Chemical Sciences (ICMMSA)” Department of Mathematics, Department of Chemical Engineering & Society for the Advancement of Chemical Sciences and Education, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, during December 06-07, 2018.
- Presented paper titled “Stationary analysis of a fluid queue regulated by multiple exponential vacations and impatient customers” “International Conference on Rough Set Theory and Mathematical Applications (ICRSMA21)” Virtual mode, Department of Mathematics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, during January 08-09, 2021.

**Work in Progress:**

Nil

**Academic Experience:**

Nil

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

- Attended “37<sup>th</sup> Annual Conference of Ramanujan Mathematical Society” at Department of Mathematics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, during December 06-08, 2022.
- Attended a Webinar on "Application of Queueing Systems to Telecommunications" organized by the Department of Applied Mathematics, Sri Venkateswara College of Engineering (Autonomous), Sriperumbudur on 6th August 2020.
- Attended “National Conference on Mathematical Analysis and Computing (NCMAC-2018)” organized by Department of Mathematics, SSN college of Engineering, Kalavakkam, during December 13-14, 2018.

**Membership:**

Nil

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