

## **FACULTY PROFILE TEMPLATE**

**Please ensure that this Template is ‘Thoroughly Followed/Replicated’ in your profile**

- ❖ **Please mention year of passing (Educational Qualifications)**
- ❖ **In case of Updating Existing Faculty profiles, please send the new additions in ‘Highlighted Form/Text’.**

### **Basic Details:**

- **Name:** Dr B Janani
- **Designation:** Assistant Professor (OG)
- **Phone Number:** 9789871967
- **Email ID:** jananib1@srmist.edu.in
- **Area or Subject:** Fuzzy Logic
- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

### **Educational Details:**

- **Degree** – M. Sc., Ph. D.
- **Area or Subject** – Mathematics
- **University**

Ph. D. Mathematics – 2018, Hindustan Institute of Technology and Science, Tamil nadu, Chennai.

M.Phil. Mathematics – 2010, University of Mysur, KArnataka, Mysore.

M.Sc. Mathematics – 2008, University of Mysur, KArnataka, Mysore.

B.Sc. Mathematics – 2006, University of Mysur, KArnataka, Mysore.

## **Other Details:**

### **Courses:**

- **Fuzzy Mathematics**
- **Mathematical Foundation**
- **Numerical methods**
- **Probability and Statistics**
- **Engineering Mathematics**

**Research Interests:** Fuzzy set and Intuitionistic Fuzzy set.

### **Publications:**

- Janani Bharathraj, "Location Selection for Smog Towers Using Zadeh's Z-Numbers Integrated with WASPAS", Journal of Intelligent and Fuzzy Systems, 37(3), (2019), pp:4287-4297, 2021.
- Janani Bharatraj, "Interval Valued Intuitionistic Fuzzy Gaussian Membership Function: A Novel Extension" Intelligent and Fuzzy Techniques: Smart and Innovative Solutions (pp.372-380), 2021.
- Janani Bharatraj **Interval-valued neutrosophic numbers with WASPAS**, Fuzzy Multi-criteria Decision-Making Using Neutrosophic Sets (pp.435-453), 2019.
- Janani Bharatraj **Power Harmonic Weighted Aggregation Operator on Single-Valued Trapezoidal Neutrosophic Numbers and Interval-Valued Neutrosophic Sets**, Fuzzy Multi-criteria Decision-Making Using Neutrosophic Sets (pp.45-62), 2019.
- Janani Bharatraj **Gaussian Qualitative Trigonometric Functions in a Fuzzy Circle**, 2018, Advances in Fuzzy Systems 2018:1-9
- **A New Alpha, Beta, Gamma, Delta -cuts in Trapezoidal Fuzzy Number and its Approach in Decomposition Theorem**, Global Journal of Pure and Applied Mathematics 12(3):875-877, 2016
- **Cut Sets on Trapezoidal Fuzzy Number and Intuitionistic Fuzzy Number: A New Perspective**, December 2016, International Journal of Pure and Applied Mathematics 112(4):749-762.

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

- **Janani Bharatraj THEORY OF TRIANGULAR FUZZY NUMBER, March 2017, Conference: National Conference on Advanced Trends in Mathematics**

**Academic Experience: 2 years**

**Achievements and Awards: Nil**

**Membership: AMS**  
**IEEE**  
**RMS**

**AWM**

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