

**Dr. Sujatha Lokavarapu, Ph.D.**

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**EDUCATION**

2010-2016	<b>Ph.D., Mathematics</b> <b>Andhra University, Visakhapatnam, Andhra Pradesh, India.</b> <b>Thesis Title:</b> “A Theory of B-sets and Representation of Type-2 Fuzzy Sets” <b>Supervisor:</b> Prof. Nistala V.E.S. Murthy
2006-2008	<b>M.Sc., Mathematics, 66.00% of Marks</b> <b>Andhra University PG Centre, Etcherla, Srikakulam, Andhra Pradesh, India.</b>
2003-2006	<b>B.Sc., Mathematics, Statistics and Computers, 68.00% of Marks</b> <b>Andhra University, India.</b>
2001-2003	<b>Intermediate, Mathematics, Physics and Chemistry, 64.00% of Marks</b> <b>Board of Intermediate Education, Andhra Pradesh, India.</b>
2001	<b>SSC, 77.00% of Marks</b> <b>Board of Secondary Education, Andhra Pradesh, India.</b>

**RESEARCH**

2011-2015	<b>Research Scholar, Department of Mathematics,</b> <b>Andhra University, Andhra Pradesh, India.</b>
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**TEACHING  
EXPERIENCE**

2018-	<b>Assistant Professor</b> , Department of Mathematics. <b>Adikavi Nannaya University (ANUR)</b> , Rajamahendravaram, Andhra pradesh, India.
2016-2018	<b>Associate Professor</b> , Department of Mathematics. Basic Science & Humanities, <b>VIGNAN'S Institute of Information Technology, Duvvada,</b> <b>Visakhapatnam, India.</b>
2016-2016	<b>Assistant Professor</b> , Department of Mathematics. Basic Science & Humanities, <b>Pydah College of Engineering and Technology, Visakhapatnam,</b> <b>India.</b>
2010-2016	<b>Guest Faculty</b> , B. Tech and M. Sc. <b>Department of Computer Science of A.U. Engineering College for</b> <b>Women, Andhra University, India.</b>
2015-2016	<b>Guest Faculty</b> , M. Sc. <b>Department of Mathematics of A.U. College of Science and</b> <b>Technology, Andhra University, India.</b>
2011-2013	<b>Guest Faculty</b> , B. Tech and MCA <b>Department of Computer Science and Systems Engineering of A.U</b> <b>Engineering College, Andhra University, India.</b>

**SKILLS**

Languages	English & Telugu.
Technical	Diploma in Software Programming & Latex Software

**COURSES TAUGHT**

- Engineering Mathematics(M1, M2 & M3)

- Graph Theory
- Lattice Theory
- Discrete Mathematical Structures
- Analysis
- Operation Research(LPP)
- Topology

## **PUBLICATIONS**

1. “Residue Matrix and not Distributive Lattice” **Lokavarapu Sujatha** and T. Srinivasa Rao. *International Journal of Mathematics Trends and Technology*, volume 65 Issue-8, August- 2019.
2. “Products and Factors of Breesets” Nistala V.E.S. Murthy And **Lokavarapu Sujatha**. *International Journal Of Mathematics and its Applications*, 6(2-B) (2018), 109-129.  
<http://ijmaa.in/>.
3. “Lattice (Algebraic) Properties of (Inverse) Images of Type-2 Fuzzy Subsets” Nistala V.E.S. Murthy and **Lokavarapu Sujatha**. *International Journal of Science and Research*. 2014, 3, 1741.  
<http://www.ijsr.net/archive/v3i12/U1VCMTQ3Nzc=.pdf>
4. “Multi Fuzzy Sub Rings and Ideals” **Lokavarapu Sujatha**. *AFMI (Annals of Fuzzy Mathematics and Informatics)*. 2014, 8, 385.  
[http://www.afmi.or.kr/papers/2014/Vol-08\\_No-03/Vol\\_8\\_No\\_3/PDF/AFMI-8-3\(385-392\)-H-130824R2.pdf](http://www.afmi.or.kr/papers/2014/Vol-08_No-03/Vol_8_No_3/PDF/AFMI-8-3(385-392)-H-130824R2.pdf)
5. “Breesets” **Lokavarapu Sujatha** and Nistala V.E.S. Murthy. *International Journal of Advanced Research in Science, Engineering and Technology*. 2014, 1, 303.  
[http://www.ijarset.com/upload/2014/december/11\\_IJARSET\\_nvsmurthy2.pdf](http://www.ijarset.com/upload/2014/december/11_IJARSET_nvsmurthy2.pdf)
6. “Morphisms of Breesets” Nistala V.E.S. Murthy and **Lokavarapu Sujatha**. *International Journal of Advanced Research in Science, Engineering and Technology*. 2014, 1, 263.  
[http://www.ijarset.com/upload/2014/december/5\\_IJARSET\\_NVSMURTHY-6\\_%281%29.pdf](http://www.ijarset.com/upload/2014/december/5_IJARSET_NVSMURTHY-6_%281%29.pdf)

## **CONFERENCE / WORKSHOP ATTENDED**

1. Nistala V.E.S. Murthy and **Lokavarapu Sujatha**, Lattice Algebraic Properties of (Inverse) Images of Type-2 Fuzzy Subsets, National Conference on Mathematics &

- Computational Sciences, organized by Department of Mathematics, Adikavi Nannaya University, Rajahmundry July, 2012.
2. Winter School on Measure Theory and Functional Analysis, organized by The Institute of Mathematical Sciences, Chennai and Department of Mathematics, Andhra University, Visakhapatnam November, 2013.
  3. **Lokavarapu Sujatha**, Multi Fuzzy Subrings & Ideals, International Conference on Recent Advances in Mathematical Sciences and Applications (RAMSA'13), organized by Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam December 2013.
  4. Nistala V.E.S. Murthy and **Lokavarapu Sujatha**, Lattice Theoretic Properties of Biresets, National Seminar on Emerging Trends in Applied Mathematics (NSETAM-2014), organized by Department of Applied Mathematics, Andhra University, Visakhapatnam April, 2014
  5. Nistala V.E.S. Murthy and **Lokavarapu Sujatha**, Algebraic Properties of (Inverse) Images of Substructures of Biresets, International Conference on Algebra and Applications (ICAA) 2014, organized by Department of Mathematics, Andhra University, Visakhapatnam April, 2014.
  6. National Workshop on Water and Sustainable Development, organized by A.U. College of Engineering (A), Andhra University, Visakhapatnam March, 2015.

### **CO-CURRICULAR ACTIVITIES**

1. Serving as **NAAC Assistant Coordinator**, College of Science and Technology, **Adikavi Nannaya University**, Rajamahendravaram. A.P., India.
2. Serving as **Residential Assistant Warden**, **Adikavi Nannaya University**, Rajamahendravaram. A.P., India.
3. Served as **NSS Programme Officer** during 2016-18 in **VIGNAN'S** Institute of Information Technology, Duvvada, Visakhapatnam, India.
4. Embark with **Statistics-Inter Collegiate Statistics Competition** organized by Prism College, Visakhapatnam November 2005.
5. Andhra University **Academic Exhibition-2011** organized by Andhra University, Visakhapatnam February, 2011.

### **EXTRA CURRICULAR ACTIVITIES**

- Won **First prize in District level in Tennikoit (D)** in the senior section in the East Godavari District, Secondary Schools Athletic Association Tournament held at Z. P. High School, Addategala, East Godavari December 1999.

### **RESEARCH INTERESTS**

- Type-2 Fuzzy Set Theory
- Graph Theory
- Algebra
- Lattice Theory

### **PERSONAL DETAILS**

- **Name:** Dr. Sujatha Lokavarapu
- **Father's Name:** Chinnayya Naidu
- **Birth Date:** 01 June, 1986
- **Nationality:** Indian
- **Marital Status:** Un-Married

### **REFERENCES**

#### **Dr. Nistala V.E.S. Murthy**

Professor

Department of Mathematics

A.U. College of Science & Technology

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#### **Dr. D. Lalitha Bhaskari**

Professor

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