

## **Bio-data of Lata Kadam**

**1. Full Name:** Prof. (Dr.) Lata Datta Kadam

**2. Date of Birth:** 18-05-1983

**3. Designation:** Head and Professor,  
Department of Mathematics,  
MES's Abasaheb Garware College (Autonomous), Pune-411004

**4. Address:**

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**5. Educational Qualification:** M.Sc., M.Phil. Ph. D, NET

1) B.Sc. (Mathematics): In 2004, First class with Distinction from Abasaheb Garware  
College, Pune.

2) M.Sc. (Mathematics): In 2006, First class from Department of Mathematics,  
University of Pune

3) M.Phil. (Graph Theory): (In 2012, with 'A' grade)  
Title of thesis: A Survey of Realizations of Degree Sequences In Hypergraphs  
Name of Guide: Prof. (Dr.) Charusheela Deshpande  
Research Centre: Department of Mathematics, Savitribai Phule Pune University, Pune.

4) Ph.D. (Graph Theory): (In 2018)  
Title of thesis: Some Classes of Self-complementary 3-Uniform Hypergraphs and Its  
Extensions  
Name of Guide: Prof. (Dr.) Charusheela Deshpande  
Research Centre: Department of Mathematics, Savitribai Phule Pune University, Pune.

## 6. Experience:

(a) Teaching: Total 19 years (under graduate and post graduate).

## 7. Member:

- Reviewer for American Mathematical Society.
- Life Member of the Indian Mathematical Society [IMS].
- Life Member of the Indian Science Congress Association [ISCA].
- Life Member of Academy of Discrete Mathematics [ADMA]

## 9. Research:

Recognized Ph.D. research guide of SPPU, Pune.

No. of Ph.D. registered students: 03

## Publications:

- 1) Vrushali Shinde, Lata Kadam, “On the Transversal Coalitions of  $r$ -Uniform Hypergraphs,” (Communicated).
- 2) L. N. Kamble, Vikas Kulal, A. S. Khairnar, K. D. Masalkar “On the existence of regular 3-partite self-complementary and almost self-complementary 3-uniform hypergraphs,” (Communicated).
- 3) L. N. Kamble, C. M. Deshpande, B. P. Athawale, “Complementing Permutations of bipartite almost self-complementary 3-uniform hypergraphs, Palestine Journal of Mathematics, 2025, 14(3), 1236-1244.
- 4) L. N. Kamble, C. M. Deshpande, B. P. Athawale, “A new construction of regular and quasi-regular self-complementary graphs”, Journal of Communications in Combinatorics and Optimizations, 2025, 10(3), 595-599.
- 5) Vikas Kulal, Anil Khairnar, Krishnat Masalkar and Lata Kadam, “Weakly Zero Divisor Graph of a Lattice”, Communications in Mathematics and Applications 4(3) (2023), 1167-1180.
- 6) L. N. Kamble, C. M. Deshpande, B. P. Athawale, “The existence of bipartite almost self-complementary 3-uniform hypergraphs”, Opuscula Mathematica, 2023, 43(5), pp. 163–173.
- 7) L. N. Kamble, C. M. Deshpande, B. P. Athawale, “ $r$ -partite self-complementary and almost self-complementary  $r$ -uniform hypergraphs”, AKCE International Journal of Graphs and Combinatorics, 2020, 17(1), pp. 159–167.
- 8) L. N. Kamble, C. M. Deshpande, B. P. Athawale, “The existence of regular and quasi-regular bipartite self-complementary 3-uniform hypergraphs,” Journal of Combinatorial Mathematics and Combinatorial Computing, 2019, 111, pp. 257–268.

- 9) L. N. Kamble, C. M. Deshpande, B. P. Athawale, "On bipartite self-complementary 3-uniform hypergraphs", *Ars Combinatoria*, 146(2019), pp. 293-305.
- 10) L. N. Kamble, C. M. Deshpande, B. Y. Bam, "On almost self-complementary 3-uniform hypergraphs", *Discuss. Math. Graph Theory*, 37(2017), pp. 131-140.
- 11) L. N. Kamble, C. M. Deshpande, B. Y. Bam, "The existence of quasi regular and bi-regular self-complementary 3-uniform hypergraphs", *Discuss. Math. Graph Theory* 36(2016), pp. 419-426.

**Books:**

- 1) A Study of Realizations of Degree Sequences in Hypergraphs, LAP LAMBERT Academic Publishing, ISBN: 978-620-6-78672-6
- 2) Co-author of a book published by the Savitribai Phule Pune University.

**Paper presentations:**

Presented 09 research papers in different International / National conferences.