



## Dr. Samina S. Boxwala Kale Vice Principal & Head,

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### PROFILE

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A true blue Wadian and a proud alumnus of IIT Bombay, **Dr. Mrs. S. S. Boxwala Kale**, Vice Principal and Head, Department of Mathematics, Nowrosjee Wadia College has dedicated 30 years of her life serving her alma mater. As **IQAC** as well as **NAAC** coordinator she led her alma mater Nowrosjee Wadia College to an **A+ Grade** in the second cycle of accreditation by NAAC. She is a dynamic personality, an able administrator and is extremely passionate about teaching.

### AWARDS

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- **Best Teacher Award** by Pune Municipal Corporation in September 2012.
- The Prestigious **Gokhale Prize** Awarded by Nowrosjee Wadia College for recognition of outstanding work in Research in the year 2003.

### EDUCATION

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- **Ph. D.**, Mathematics, University of Mumbai, Mumbai, June 2003.
- **SET**, Savitribai Phule Pune University (then University of Pune ), 1995
- **M. Sc.** Mathematics, Indian Institute of Technology, Powai, Mumbai, May 1991, 7.79 (CPI) (First Class)
- **B. Sc.** Mathematics, Nowrosjee Wadia College, Savitribai Phule Pune University (then University of Poona, Pune), May 1989, 78.83% (First Class with Distinction)

### WORK EXPERIENCE:

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#### a) Nowrosjee Wadia College (Senior College)

- Associate Professor, July 2009 – present
- Reader in Mathematics, July 2006 – July 2009
- Lecturer in Mathematics, June 1991 – July 2006

#### b) Additional Qualifications

- Recognized M. Phil. Guide, Savitribai Phule Pune University
- Recognized Ph. D. Guide, Savitribai Phule Pune University

#### c) Visiting Faculty:

- M. Sc. Tech. - Industrial Mathematics with Computer Applications, Nowrosjee Wadia College, July 2003 – present
- M. Phil. Yeshwantrao Chauhan Maharashtra Open University(YCMOU), Study Centre at Nowrosjee Wadia College, Sept. 2007 – Dec. 2007, Sept 2008 – Dec. 2008.
- BITS PILANI's Work Integrated Learning Programme for Industries like Patni Computers and TechMahindra, June 2005 – Dec 2009.

## ADMINISTRATIVE RESPONSIBILITIES:

- Vice Principal, Nowrosjee Wadia College, March 2011 till date
- Head, Department of Mathematics, January 2010 till date
- Coordinator, M. Sc. Tech. (IMCA) at Nowrosjee Wadia College, January 2010 – present
- IQAC Coordinator, Nowrosjee Wadia College, from June 2014 up to NAAC accreditation in the second cycle where the college was awarded A+ grade with CGPA 3.51 in September 2017. Resumed the post of IQAC coordinator from the academic year 2019-2020.
- Information Officer (RTI), November 2014 till date.
- Hostel Warden for the academic year 2019-2020.
- In charge of several departments from Arts Faculty intermittently
- Life Member, Modern Education Society – From Dec. 2010 till Sept. 2018
- Coordinator, Cell for Harassment and Atrocities against Women, Nowrosjee Wadia College, June 2009 – 2011

## CO-CURRICULAR ACTIVITIES (FOR 2020-2021)

- Development of e-content for Group Theory. The scope of the video Lectures is the T.Y.B.Sc. Mathematics Paper of Group Theory of Savitribai Phule Pune University. The lectures are uploaded on You Tube. The channel has 955 subscribers till date. Some of the videos have crossed 10000 views.
- Convener & Speaker For A One Day Online Symposium on 'Discrete Mathematics' dated 6<sup>th</sup> March 2021, Organized Jointly by: Lokmanya Tilak Chair, SPPU, Dept. of Maths, Nowrosjee Wadia College, Indian Academy of Industrial & Applicable Mathematics, Pune. The topic of the talk was **Dimension of a Graph**.
- Delivered an Online Guest lecture for College teachers of Deccan Education Society on **Online Lecture Content Preparation**, on 4<sup>th</sup> July 2021.
- To keep abreast of the changing trends in Teaching Pedagogy due to the Covid 19 pandemic, did 4 online courses on topics including Online Teaching (Basic and Advanced), LaTeX, video editing.

## PUBLICATIONS:

### a) Research Papers:

1. Nazanin Movarraei, Samina Boxwala, On the Number of Cycles in a Graph, Open Journal of Discrete Mathematics; ISSN Print: 2161-7635 ISSN Online: 2161-7643, Vol. 6 No2, 41-69, April 2016
2. Samina Boxwala, Priyam Vashishta, Some New Families of Graceful Graphs, Electronic Notes in Discrete Mathematics; ISSN: 1571-0653, Vol. 48, 127-133, 2015
3. Nazanin Movarraei, Samina Boxwala, On the Number of Paths of Length 6 in a Graph, International Journal of Applied Mathematical Research; ISSN 2227-4324, Vol. 4 No 2, 267-280, 2015
4. Nazanin Movarraei, Samina Boxwala, On the Number of Paths of Length 5 in a Graph, International Journal of Applied Mathematical Research; ISSN 2227-4324, Vol. 4 No 1, 30-51, 2015
5. Andar M. M., Samina Boxwala, N. B. Limaye, New Families of Cordial Graphs, Journal of Combinatorial Mathematics and Combinatorial Computing (JCMCC); ISSN, 08353026, Vol. 53, 117-154, 2005
6. Samina Boxwala, N. B. Limaye, On the Cordiality of Elongated Plys, Journal of Combinatorial Mathematics and Combinatorial Computing (JCMCC); ISSN,08353026, Vol. 52 (2005), 181-221, 2005
7. Andar M. M., Samina Boxwala, N. B. Limaye, On the Cordiality of Corona Graphs,, Ars Combinatoria, ISSN 0381-7032, Vol. 78, 179-199, 2006

## OTHER ACHIEVEMENTS:

- Successfully guided one student for Ph. D.
  - Organizer of several Workshops, Conferences etc. at college level including being Convenor for the National Conference on Pure and Applied Mathematics held on April 27-28, 2017.
  - Chaired a session on Discrete Mathematics at the Late Prin. Dr. B. S. Bhanage Memorial National Conference titled "Recent Trends in Mathematics & Statistics with applications to Commerce, Economics, Finance and Management" organized by Ness Wadia College of Commerce (March 21-22, 2016)
8. Andar M. M., Samina Boxwala, N. B. Limaye, On the Cordiality of the  $t$ -ply  $Pt(u,v)$ , *Ars Combinatoria*, ISSN 0381-7032, Vol. 77, 245-259, 2005
  9. Andar M. M., Samina Boxwala, N. B. Limaye, On the Cordiality of the  $t$ -uniform homeomorphs of Cordial Graphs- II (Complete Graphs), *Ars Combinatoria*, ISSN 0381-7032, Vol 67, 213-220, April 2003
  10. Andar M. M., Samina Boxwala, N. B. Limaye, On the Cordiality of the  $t$ -uniform homeomorphs of Cordial Graphs - I (Complete Graphs), *Ars Combinatoria*, ISSN 0381-7032, Vol. 66, 313-318, January 2003
  11. Andar M. M., Samina Boxwala, N. B. Limaye, A Note on the cordial labeling of multiple shells, *Number Theory and Discrete Mathematics (Proceedings of the International Conference on Number Theory and Discrete Mathematics, October 2000, Panjab University, Chandigarh)*, Trends in Math; ISBN 978-3-0348-9481-4, 157-60, 2002
  12. Andar M. M., Samina Boxwala, N. B. Limaye, Cordial labelings of some wheel related Graphs, *Journal of Combinatorial Mathematics and Combinatorial Computing (JCMCC)*; ISSN 08353026, Vol. 41, 203-208, 2002

## b) Books:

List of Books authored and co-authored:

- Some Problems in Cordial Labelings of Graphs, LAP Lambert Academic Publishing Germany, ISBN No. 978-3-659-63342-3
- Calculus for FYBSc and FYBA - Manali Prakashan, 2003
- Algebra for FYBSc and FYBA – Manali Prakashan, 2002
- Geometry and Calculus- Paper III – Manali Prakashan, 2002
- Discrete Mathematics for FYBCS- Manali Prakashan, 2001
- Text Book of Vector Geometry for FYBCS –Manali Prakashan, 2001
- Elements of Graph Theory for FYBCS – Manali Prakashan, 2000
- Text Book of Algebra for FYBCS – Manali Prakashan, 1999
- Text Book of Discrete Mathematics for FYBCS- Manali Prakashan, 1999

## c) Problem:

Published a joint problem in the *American Mathematical Monthly* as Problem #12268 in Volume 128 (2021), page 658, proposed by S. Boxwala Kale, V. Chvátal, D. E. Knuth, and D. B. West.