

Curriculum Vitae

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Research Interests Graph Theory

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Link (if any)

ACADEMIC RECORD:

- Ph.D. (Mathematics): Savitribai Phule Pune University, November, 2022.
- NET with CSIR-JRF (AIR-23): December, 2009.
- SET: September, 2009.
- Post-Graduation: M.Sc. (Mathematics), Savitribai Phule Pune University (Formerly, University of Pune), May, 2010.

TEACHING EXPERIENCE: 12 YEARS

- Assistant Professor in Mathematics at Government of Maharashtra's Government College of Arts and Science, Aurangabad from August 12, 2021.
- Assistant Professor in Mathematics at Government of Maharashtra's Ismail Yusuf College of Arts, Science and Commerce, Mumbai during February 23, 2015 - August 11, 2021.
- Assistant Professor in Mathematics at Government College of Engineering, Pune (COEP) during August 6, 2013 - August 5, 2014.
- Assistant Professor in Mathematics at MAEER's MIT Pune during December 1, 2010 - August 5, 2013.

ADMINISTRATIVE EXPERIENCE:

- Head, Department of Mathematics, Government College of Arts and Science, Aurangabad from August 12, 2021.
- Head, Department of Mathematics, Ismail Yusuf College of Arts, Science and Commerce, Mumbai during May 1, 2016 - August 11, 2021.

RESEARCH EXPERIENCE: 7 YEARS

PUBLICATIONS:

1. A.V. Sonawane and Y.M. Borse, Decomposing hypercubes into regular connected subgraphs, *Discrete Math. Algorithms Appl.* 8(4) (2016), Article 1650065, 6 pages. (SCOPUS, Impact Factor: 0.796)
2. Y.M. Borse, A.V. Sonawane and S.R. Shaikh, Connected bipancyclic isomorphic m -factorizations of the Cartesian product of graphs, *Austral. J. Combin.* 66(1) (2016), 120-129. (SCOPUS, Impact Factor: 0.917)
3. Y.M. Borse, A.V. Sonawane and S.R. Shaikh, Factorizations of the product of cycles, *AKCE Int. J. Graphs Comb.* 16(3) (2019), 324-331. (SCOPUS, SCI, Impact Factor: 0.867)
4. A.V. Sonawane and Y.M. Borse, Decomposition of hypercubes into sunlet graphs of order eight, *Discrete Math. Algorithms Appl.* 14(3), Article 2150123 (2022), 7 pages. (SCOPUS, Impact Factor: 0.796)
5. A.V. Sonawane and Y.M. Borse, Connectivity of the tensor product of a graph and a cycle, *J. Ramanujan Math. Soc.* 36(4) (2021), 325-330. (SCOPUS, SCI, Impact Factor: 0.328)

PAPER PRESENTATIONS:

1. *Connectivity of the tensor product of a graph and a cycle* presented in the *International Conference on Number Theory and Discrete Mathematics* organized by Ramanujan Mathematical Society during December 11-14, 2020.
2. *Decomposition of hypercubes into sunlet graphs* presented in the *International Conference on Discrete Mathematics* by Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu during October 11-13, 2021. **Received Best Paper Award for this paper presentation in this conference.**
3. *On r -factors with components containing specified vertices in a torus* in the *International Conference on Algebra and Discrete Mathematics* by Department of Mathematics, Savitribai Phule Pune University, Pune during May 26-28, 2022.

WORKSHOPS:

1. Basic Course in Algebra and Analysis at the Department of Mathematics, University of Mumbai, Mumbai held during December 14-19, 2015.
2. Basic Complex Analysis at K. J. Somaiya College of Science and Commerce, Mumbai sponsored by National Board for Higher Mathematics (NBHM) in collaboration with University of Mumbai during February 01-06, 2016.
3. National Workshop on Product Graphs at the Department of Mathematics, Periyar University, Salem, Tamilnadu held during February 23-25, 2017.
