



• Rayat Shikshan Sanstha's •
KARMAVEER BHAURAO PATIL COLLEGE, VASHI
(EMPOWERED AUTONOMOUS)



Accredited by NAAC with Grade 'A++' (CGPA 3.51) | ISO 9001 : 2015 Certified Institute



Star College Status by Department of Biotechnology, Govt. of India



'Best College' Award by University of Mumbai



RUSA Beneficiary Institute Under Component 8



Mr. Yadnesh Anil Yadav

Assistant Professor
Department of Mathematics



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Basic Information

Qualification	M.Sc. (Mathematics)
Designation	Assistant Professor
Department	Mathematics
Specialization	Algebra, Algebraic Graph Theory, Computational Mathematics.
Research Experience	01 Years
Official Email	yyadav@kbpcollegevashi.edu.in
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Research Publications

1. **Distance and Eccentricity Spectra of Compressed Zero-Divisor Graphs over $\prod_{k=1}^n F_k$,** where F_k are any fields and $2 \leq n \leq 5$.
Advanced Engineering Sciences (Scopus-indexed Journal).
2. **Spectral Properties and Energy Analysis of the Bishop Hypergraph on the 8×8 Chessboard.**
Journal of Advances in Mathematics and Computer Science, Vol. 41, No. 3, pp. 126–141.
3. **Spectral and Energy Analysis of the Queen Hypergraph Derived from the 8×8 Chess-board.**
Asian Research Journal of Mathematics, Vol. 22, No. 4, pp. 39–55.
4. **Spectral and Energy Analysis of the Rook Hypergraph Derived from the 8×8 Chess-board.**
Asian Research Journal of Mathematics, Vol. 22, No. 4, pp. 15–31.
5. **Spectral Analysis of Compressed Zero Divisor Graphs over $\prod_{k=1}^n \mathbb{Z}_{p_k}$,** for $2 \leq n \leq 5$, where each p_k is a prime.

Major / Minor Research Projects

1. **Ongoing Minor Research Project (Institutional Seed Money), Academic Year 2025–26**

Title: *A Unified Mathematical Framework for Multi-Representation Image Analysis Using Spectral Graphs And Hypergraph.*

Funding Agency: Institutional Seed Money

Project Status: Ongoing

Courses / Training Programs Completed

1. **NPTEL–AICTE Approved Online Course: Basic Linear Algebra**

Pursuing the *8-week online course* offered through *SWAYAM* under the NPTEL–AICTE initiative.