



• Rayat Shikshan Sanstha's •
KARMAVEER BHURAO 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



Miss. Vennila Murugan

Assistant Professor
Department of Mathematics

Basic Information

Qualification	M.Sc. (Mathematics)
Designation	Assistant Professor
Department	Mathematics
Specialization	Pure and applied Mathematics.
Teaching Experience	01 Years
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Research Publications

1. **Structural Properties of Zero Divisor Graphs of $\mathbb{Z}_{rs}$** , where r and s are primes with $r < s$:
Analysis of Cartesian and Tensor Products with Application.
Panamerican Mathematical Journal (Scopus-indexed Journal), Vol. 35, No. 2S, 2025.
2. **Spectral Analysis of the Adjacency Matrix and Hamiltonian Properties of Zero-Divisor Graphs $\Gamma(\mathbb{Z}_p \times \mathbb{Z}_p)$ and $\Gamma(\mathbb{Z}_p[i] \times \mathbb{Z}_p[i])$.**
Utilitas Mathematica (Scopus-indexed Journal).

Major / Minor Research Projects

1. **Ongoing Minor Research Project (Institutional Seed Money), Academic Year 2025–26**
Title: Graph-Theoretic Study of Electrical Networks Using Laplacian Spectra. .
Funding Agency: Institutional Seed Money
Project Status: Ongoing

Courses

1. Value Added Course: *LaTeX for Beginners*.
2. Coursera Course: *Life, Health and Radiation*.