

Dr. A. D. Godase: A Master of Generalized Fibonacci Sequences and Higher-Dimensional Algebra

PROFESSIONAL IDENTITY & AFFILIATION



Associate Professor & Head of Department
Currently leading the Department of Mathematics at Vinayakrao Patil Mahavidyalaya, Maharashtra, India.



ACADEMIC ID

ORCID: 0000-0001-7049-792X

Maintains a verified global researcher profile with linked IDs for Scopus (57211868524) and ResearcherID (8-4020-2015).

ACADEMIC FOUNDATIONS



M.Sc. & B.Sc. in Mathematics (2005)

Earned his Master's degree from Savitribal Phole Puno University (2005) with a focused background in Pure Mathematics.



National Level Certifications

Qualified the CSIR-NET in 2007 and the Maharashtra State Eligibility Test (SET) in 2009.



Ph.D. in Mathematics (2021)

Completed his doctoral research titled "Study of Generalized Fibonacci Sequences" of Dr. Babasohee Ambedkar Marathwada University.

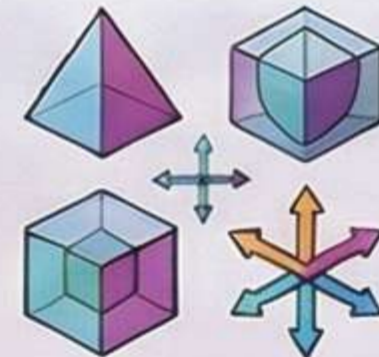
RESEARCH SPECIALIZATION & EXPERTISE



Generalized Fibonacci Structures

Extensive research into k-Fibonacci and k-Lucas numbers, focusing on binomial summations and recurrence relations.

$$\dots, e^{i\pi/2} = \sum_{k=1}^{\infty} \frac{i^k}{k} e^{i\pi/2} \binom{i}{i}$$



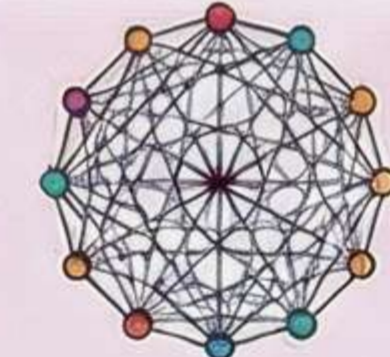
Hypercomplex Number Systems

Specializes in extending Fibonacci sequences into higher dimensional algebras, including quaternions, octonions, and sedenions.



Matrix & Vector Methods

Utilizes advanced matrix formulations to derive novel identities and summation formulas in recursive sequences.



Groups as Graphs

Explores the intersection of Group Theory and Graph Theory, representing finite groups through unit graphs.

PUBLICATION & IMPACT METRICS

360+
Citations



h-index of 9. Demonstrated research impact through high citation counts and an i10-index of 9 on Google Scholar.

120+
Academic Works



A prolific contributor to the field with **88+** peer-reviewed journal articles and over **112** total works across various platforms.

28,000+
Research Reads



High engagement with the scientific community on ResearchDate, reflecting the practical utility of his findings.

BOOKS & EDITORIAL LEADERSHIP



Published 6 Authoritative Books

Titles include "Generalized Fibonacci Sequences," "Introduction to LaTeX," and "Comprehensive Guide to Abstract Algebra."



International Journal Editor

Serves as Associate Editor for the Journal of Mathematical Problems, Equations and Statistics and Editorial Board Member for IJNT and IJTAM.



LaTeX & CAS Expert

Recognized for pedagogical expertise in LaTeX typesetting and Computer Algebra Systems like Mathematica and Maple.

FUNDED RESEARCH & PROJECTS



UGC Funded Project: "Groups as Graphs"

Principal Investigator for a completed minor research project (2013-2018) funded by the University Grants Commission with a grant of ₹160,080.