



CHANGU KANA THAKUR

ARTS, COMMERCE AND SCIENCE COLLEGE, NEW PANVEL (AUTONOMOUS)

Re-accredited 'A+' Grade by NAAC (3rd Cycle - CGPA 3.61)
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai

Prof.(Dr.) S. I. Unhale

Publication of Research Papers:

UGC listed journals	:	10
Peer reviewed journals	:	02
Non-peer reviewed journals	:	05
Conference proceedings	:	03

List of Publication of Research Papers:

- Hayman Thabet, S.D. Kendre and S.I. Unhale; Numerical Analysis of Iterative Fractional Partial Integro-Differential Equations, *Journal of Mathematics*, (2022), 1-14.
- S.I. Unhale and S. D. Kendre; On existence and uniqueness results for iterative mixed integrodifferential equation of fractional order, *J. Appl. Anal.*, 26(2) (2020), 263-272 https://doi.org/10.1515/jaa-2020-2023.
- S.D. Kendre and S.I. Unhale; On existence, uniqueness and Ulam's stability results for boundary value problems of fractional iterative integrodifferential equations, *Journal J. Appl. Math. Comput.*, 64 (2020), 503–517, https://doi.org/10.1007/s12190-020-01366-z.
- S.I. Unhale and M. A. Joshi; A Statistical Study on Road Accidents in Ghat Section of Mumbai Pune Expressway, Utkal Historical Research Journal, 36, 1(III), (2023), 50-53.
- S.I. Unhale and S.D. Kendre; On Existence and Uniqueness results for iterative fractional integrodifferential equation with deviating arguments, *Applied Mathematics E-Notes*, 19(2019), 116-127.
- S.I. Unhale and S.D. Kendre; On Controllability of Mixed Iterative Integrodifferential Equations of Fractional Order, *Malaya Journal of Mathematik*, 1 (2019), 679-688.
- S.I. Unhale and S.D. Kendre; Existence and Uniqueness Results for Iterative Volterra Integrodifferential Equation of Fractional Order, *Communications on Applied Nonlinear Analysis*, 25(1) (2018), 81-91.
- S.I. Unhale and S.D. Kendre; Numerical Solution of Nonlinear Fractional Integrodifferential Equations by Collocation method, *Malaya Journal of Mathematik*, 6(1) (2018), 73-79.
- S.I. Unhale; Numerical Solution of Nonlinear Fractional Integrodifferential Equation by Fractional Power Series Method, *Printing Area*, International Research Journal, Special Issue, 2018, 85-91.
- Subhash I. Unhale and Sadikali L. Shaikh; Applications of the Sumudu Transform to Groundwater Flow and Solute Transport Modelling, *International Journal of Research and Analytical Reviews*, 5(4) 2018, 554-558.





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• S.I. Unhale and N.D. Mokal; An Assessment of Student Project using Fuzzy Logic based on Grading System, *Anugoonj*, (6), 2016-2017, 31-35.

- S.I. Unhale and N.D. Mokal; Evaluation of Faculty Performance by Using Fuzzy Logic in Educational Institutions, *Anugoonj*, (5), 2015-2016, 33-39.
- S.I. Unhale and N.D. Mokal; A New Approach for Fuzzy Traffic Signal Control, *Anugoonj*, (4), 2014-2015, 30-34.
- S.I. Unhale and N.D. Mokal; Fuzzy Logic Control of Washing Machine, *Anugoonj*, (3), 2013-2014, 30-35.
- S.I. Unhale and M.A. Joshi; Fast Food: Need of Trend, *Anugoonj*, (2), 2012-2013, 62-64.
- Unhale S.I. and Chaudhary M.S.; On distributional generalised Laplace transformation', *The Journal of the Indian Academy of Mathematics*, 30 (2) 2008, 403-412.

Publications in Conference Proceedings (03)

- Feedback Management System: Our Initiative
- Planning, Execution and feedback for effective Teaching-Learning process: Our Initiative
- Applications of Differential Equation for corruption & Population growth & decay

Books authored:

Edited book by National publisher: 10

List of Books authored:

- Calculus I, Sheth Publishers Pvt. Ltd.
- Calculus II, Sheth Publishers Pvt. Ltd.
- Computer Oriented Statistical techniques, Sheth Publishers Pvt. Ltd.
- Mathematical & Statistical Techniques-I, Sheth Publishers Pvt. Ltd.
- Mathematical & Statistical Techniques-II, Sheth Publishers Pvt. Ltd.
- Calculus II. Sheth Publishers Pvt. Ltd.
- Mathematical & Statistical Techniques, Sem. I, Universal Publishing House
- Mathematical & Statistical Techniques, Sem II, Universal Publishing House
- Business Mathematics, Sheth Publishers Pvt. Ltd.
- Calculus I. Sheth Publishers Pvt. Ltd.



।। विद्या विनयेन शोभते।। Janardan Bhagat Shikshan Prasarak Sanstha's

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• Mr. S. L. Khairnar Publication of Research Papers:

UGC listed journ	als	:	05
Peer reviewed jou	ırnals	:	02

List of Publication of Research Papers:

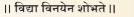
- Mr. S.L. Khairnar,; Analysis And Simulation Of A SEIR Model For Covid-19 Virus In Pune, Educreator Research Journal,, (2022).
- Mr. S.L. Khairnar,; Extrapolating data by using polynomials: A case study on Panvel Tahsil Population, Educreator Research Journal,, (2022).
- S.I. Unhale, S.L. Khairnar and M.A. Joshi; Study On Impact of Sound Frequency on Human Well Being Using Randomized Block Design
- Mr. S.L. Khairnar & Mrs. M.A.Joshi; Enhancing Mathematical Education for Students through the Integration of Software Tools
- Mr. S.L. Khairnar & Mrs. M.A.Joshi; Exploring Population Dynamics in Nashik District: Applying Polynomial Extrapolation
- Mr. S.L. Khairnar & Mrs. M.A.Joshi; Temporal Analysis Of COVID-19 Cases And Recovery Trends In Panvel City: A Spline Curve Approach

Books authored:

Edited book by National publisher: 06

List of Books authored:

Name of the	Title of the	Title of the	Title of the	ISBN/	Name of
Author	book/ chapter	paper	proceeding of	ISSN No.	the
	published		the conference		publisher
Dr. S.I. Unhale	Mathematical	Mathematical	-	ISBN-	Sheth
and Mr. S.L.	and Statistical	and Statistical		978-93-	Publisher
Khairnar	Techniques- I	Techniques- I		5576-	
				348-8	
Dr. S.I. Unhale	Mathematical	Mathematical	-	ISBN-	Sheth
and Mr. S.L.	and Statistical	and Statistical		978-93-	Publisher
Khairnar	Techniques- II	Techniques- II		5576-	
				850-6	
Dr. S.I. Unhale	Calculus- I	Calculus- I	-	ISBN-	Sheth
and Mrs. N.R.				978-93-	Publisher
Gharat				5576-	
				340-2	





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Dr. S.I. Unhale	Calculus- II	Calculus- II	-	ISBN-	Sheth
and Mrs. N.R.				978-93-	Publisher
Gharat				5576-	
				218-4	
Dr. S.I. Unhale	Algebra-I	Algebra-I	-	ISBN-	Sheth
and Mr. S.L.				978-93-	Publisher
Khairnar				5576-	
				333-4	
Dr. S.I. Unhale	Discrete	Discrete	-	ISBN-	Sheth
and Mr. S.L.	Mathematics	Mathematics		978-93-	Publisher
Khairnar				5576-	
				226-9	

• Ms. N. C. Patil

List of Publication of Research Papers:

Ms. Neha Patil, Computational evaluation of dominant eigenvalue and its corresponding eigenvector using power method, *Mukt Shabd Journal*, 12(IV), 238-243, 2023 https://shabdbooks.com/volume-12-issue-4-april-2023/

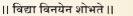
• Mrs. N. R. Gharat

Publication of Research Papers:

on-peer reviewed journals	:	06
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List of Publication of Research Papers:

- Mrs. N. R. Gharat, Dr. S. I. Unhale; Profit maximization in a manufacturing factory by using Linear programming, Anugoonj, 2022-2023
- Mrs. N. R. Gharat, Dr. S. I. Unhale; Application of Warshall Algorithm for providing shortest path to ambulance during emergency to get to and fro from patients home to hospital, Anugoonj, 2021-2022
- N.D. Mokal and S.I. Unhale; An Assessment of Student Project using Fuzzy Logic based on Grading System, *Anugoonj*, (6), 2016-2017, 31-35.





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- S.I. Unhale and N.D. Mokal; A New Approach for Fuzzy Traffic Signal Control, *Anugoonj*, (4), 2014-2015, 30-34.
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Books authored:

Edited book by National publisher: 02

List of Books authored:

- Calculus I, Sheth Publishers Pvt. Ltd.
- Calculus II, Sheth Publishers Pvt. Ltd.

• Mrs. M. A. Joshi Publication of Research Papers:

UGC listed journals	:	06
Peer reviewed journals	:	01

List of Publication of Research Papers:

- S.I. Unhale and M. A. Joshi; A Statistical Study on Road Accidents in Ghat Section of Mumbai Pune Expressway, Utkal Historical Research Journal, 36, 1(III), (2023), 50-53.
- S.I. Unhale and M.A. Joshi; Fast Food: Need of Trend, *Anugoonj*, (2), 2012-2013, 62-64
- Dr. S.I. Unhale & Mrs. M.A. Joshi, A Statistical study on road accidents in Ghats section of Mumbai-pune expressway, Utkal Historical Research journal, ISSN: 0976-2132
- 2023, Vol 36, NO.1(III), Pg no. 50-53
- S.I. Unhale, S.L. Khairnar and M.A. Joshi; Study On Impact of Sound Frequency on Human Well Being Using Randomized Block Design
- Mr. S.L. Khairnar & Mrs. M.A.Joshi; Enhancing Mathematical Education for Students through the Integration of Software Tools
- Mr. S.L. Khairnar & Mrs. M.A.Joshi; Exploring Population Dynamics in Nashik District: Applying Polynomial Extrapolation



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• Computer Oriented Statistical techniques, Sheth Publishers Pvt. Ltd.