Curriculum-Vitae

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Educational Qualification:

Degree	Year of Passing	Percentage/ Grade	Name of the University/ Board
Ph.D.	2021	--	Shivaji University, Kolhapur.
SET	2006	Qualified	University of Pune, Pune.
M.Sc.	2005	80.71	Shivaji University, Kolhapur.
B.Sc.	2003	82.48	Shivaji University, Kolhapur.
H.S.C.	2000	70.50	Maharashtra State Board of Education Kolhapur divisional Board.
S.S.C.	1998	78.66	Maharashtra State Board of Education Kolhapur divisional Board.

Doctor of Philosophy (Ph.D.) in Mathematics :

Ph.D. Supervisior : Dr. K. D. Kucche, Shivaji University Kolhapur.

Thesis Title : Studies in Nonlinear Differential Equations of Fractional Order**.**

Year Of Award: April 2021

Research Interest :

1. Theory of Fractional Differential Equations.
2. Analysis

Teaching Experience : 18 Years

1. Under Graduate: (B. Sc.)

1. Professor in Mathematics at Vivekanand College, Kolhapur from 01/08/2026
2. Associate Professor in Mathematics at Dattajirao Kadam Arts, Science and Commerce college, Ichlkaranji from 12/11/2026 to 31/07/2026.
3. Assistant Professor in Mathematics at Vivekanand College, Kolhapur from 20/06/2017 to 11/11/2021.
4. Assistant Professor in Mathematics at Raje Ramrao Mahavidyalaya, Jath from 15/09/2012 to 19/06/2017
5. Assistant Professor in Mathematics at Ramkrishana Paramhansa Mahavidyalaya, Osmanabad between 05/08/2010 to 14/09/2012
6. Assistant Professor in Mathematics at ShikshanMaharshi Dr. Bapuji Salunkhe Mahavidyalaya, Miraj between 26/11/2009 to 04/08/2010
7. Assistant Professor in Mathematics at Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon between 29/08/2008 to 25/11/2009.

2. Post Graduate: (M. Sc.)

1. Professor in Mathematics at Vivekanand College, Kolhapur (Autonomous Institute) from 01/08/2026 onwards
2. Assistant Professor in Mathematics at Vivekanand College, Kolhapur from 20/06/2017 to 11/11/2021.

3. Research Publications : *International* [10]

1. A Khan, PS Scindia, S. T . Sutar, T Abdeljawad, On stability analysis of a fractional volterra integro delay differential equation in the context of Mittag–Leffler kernel, *Waves in Random and Complex Media* ,36 (4), 5949-5967.
2. KD Kucche, ST Sutar, KS Nisar, Analysis of nonlinear implicit fractional differential equations with the Atangana-Baleanu derivative via measure of non-compactness, *AIMS Mathematics* 9 (10), 27058-27079.
3. Sutar, S.T., & Kucche, K. D. (2021). Implicit fractional differential equations in Banach spaces via Picard and weakly Picard operator theory. *Acta Mathematica Universitatis Comenianae*,*90*(4),403-420.

4. Sutar, S.T., Kucche, K.D. Existence and data dependence results for fractional differential equations involving atangana-baleanu derivative. *Rend. Circ. Mat. Palermo, II. Ser* **71**, 647–663 (2022). https://doi.org/10.1007/s12215-021-00622-w

5. **Sagar T. Sutar,** Kishor D. Kucche, On Nonlinear Hybrid Fractional Differential Equations with Atangana-Baleanu-Caputo Derivative, *Chaos, Solitons & Fractals*, Volume143, 2021, 110557, ISSN 0960-0779,https://doi.org/10.1016/j.chaos.2020.110557.

6. Kishor D. Kucche, **Sagar T. Sutar**, Analysis of nonlinear fractional differential equations involving Atangana-Baleanu-Caputo derivative, *Chaos, Solitons & Fractals*, Volume 143, 2021, 110556, ISSN 0960-0779, https://doi.org/10.1016/j.chaos.2020.110556.

7. K. D. Kucche, **S. T. Sutar,** On Existence and Stability Results for Nonlinear Fractional Delay Differential Equations, *Bol. Soc. Paran. Mat.*, Volume 36 (4) (2018) , pages 55-75 ISSN-00378712.

8. **Sutar S. T.,** & Kucche, K. D. (2019). On fractional Volterra integrodifferential equations with fractional integrable impulses. *Mathematical Modelling and Analysis*, *24*(3), 457-477. https://doi.org/10.3846/mma.2019.028.

9. K.D.Kucche, **S.T.Sutar,** Stability via successive approximation for nonlinear implicit fractional differential equations, *Moroccan J. Pure and Appl. Anal.(MJPAA)*, DOI 10.155/ mjpaa-2017-004 Volume 3(1), Pages36-55 ISSN: 2351-8227.

10. **S. T. Sutar,** K.D.Kucche, Global Existence And Uniqueness For Implicit Differential Equations Of Arbitrary Order, *Fractional Differential Calculus*, Volume 5, Number 2 (2015), 199–208.

Research Paper Presented At Conference :

❖ **International Conference : 06**

1. Participated and presented a paper entitled ‒ On nonlinear Hybrid Fractional Differential Equations with Atangana – Baleanu-Caputo Derivative, in International conference on Mathematical Analysis and Its Application, Karnatak University, Dharawad 2025.

2. Participated and presented a paper entitled ‒Study of Non-linear Implicit fractional Differential Equations involving Non-Singular Mittag-Leffler function‖ in International conference on Multidisciplinary Research-2022, Sharnbasva University, Kulburgi held on 22-24/11/2022.

3. **Best Paper Presentation Award in** an International Conference on Mathematics and Computation (ICMC-2021) Title of paper ‒On Nonlinear Hybrid Fractional Differential Equations with Atangana-Baleanu-Caputo derivative‖ organized by Dept. of Applied Sciences and Humanities , Rajkiya Engineering College, Kaannuj, UP, on 22-23/10/2021

4. Participated and presented a paper entitled ‒Existence and data dependence results for Fractional Differential Equations involving Atangana-Baleanu-Riemann derivative‖ in International conference on Fractional Calculus: Analysis & Applications, Department of Mathematics, Savitribai Phule Pune Unversity, Pune on 20-21/08/2021.

5. Participated and presented a paper entitled –Applications of Special functions to study fractional order calculus and differential equations‖ in International conference on Special functions and Applications (ICSFA-2020), Babu Banarasi Das University, Lucknow, India on 23/12/2020.
6. Participated and presented a paper entitled –Existence of solution of I.V.P. for Implicit fractional differential equation of fractional order‖, in International conference on Special functions and Applications (ICSFA-2020), organized by SGM College, Karad on

❖ **National Conference : 05**

1. Participated and presented a paper entitled –Study of Implicit Fractional Differential Equations in Banach Spaces with Non-singular Mittag-Leffler Kernel through Measure of Non-compactness‖ in National conference on Mathematical Analysis and Applications-2022(NCMAA-2022)

2. National Conference on Recent Development in Pure and Applied Mathematics (NCRDPAM-2019)", held at Yashvantrao Chavan Institute of Science, Satara-415001, Maharashtra, India, 26--27 February, 2019 *Picard operator technique for nonlinear Fractional Differential Equations in Banach Spaces.*

3. National Seminar on Differential Equations and Dynamical Systems—2017 , Department of Mathematics, Shivaji University Kolhapur-416004, Maharashtra, India, 27-28 February, 2017 E_α Ulam-Hyers stability of Nonlinear Implicit Fractional Differential Equations.

4. National Conference on Mathematical Modelling and its Application in Engineering and Science--2017 (NCMMAES-2017)", Department of Mathematics, Government College of Engineering, Karad-415124, Maharashtra, India, 3-4 February, 2017 , Ulam Type Stabilities of Nonlinear Implicit Fractional Differential Equations via Successive Approximations.

5. National Conference on Recent Advances in Mathematics", held at Mrs. K. S. K. Arts, Commerce and Science College, Beed-431122, Maharashtra, India, 21-23 January, 2016 On Implicit Fractional Differential Equations,

Workshops / Conference Organized. 04

1. Convener: One Day National Conference on ― Recent Advances in Mathematics-2022 (NCRAM-2022)‖ held on 27th May,2022 by Dept. of Mathematics, DKASC, College, Ichalkaranji.

2. Convener: One Day workshop on –Mathematics in Nature‖ held on 12/05/2022 by Dept. of Mathematics, DKASC, College, Ichalkaranji.

3. Convener for : One Day National Conference on –Recent Advances in Differential Equations, held on 28 August 2018, Dept. of Mathematics, Vivekanand College, Kolhapur.

4. Worked as a coordinator for One Day 24th SUMS Annual conference on –Recent Trends In Mathematics ‖ and Students' Carnival, organized at Raje Ramrao Mahavidyalaya, Jath on 18th March 2017.

Workshops / Conference Attended.

1. One day Revised Syllabus workshop for B.Sc. Part III (Practical), at R.S.C., Kolhapur on September 3, 2015.
2. One day Revised Syllabus workshop for B.Sc. Part III at S.G.M., College, Karad on August 26, 2015.
3. One day Revised Syllabus workshop for B.Sc. Part III at Shri. Vijaysinha Yadav Arts and Science College, Pethavadgaon, August 20, 2015.
4. 22nd Annual Conference on Computational Techniques in Mathematical Sciences and Student Carnival at Balwant College Vita, March 9-10, 2015.
5. 21st Annual Conference on Some Important Aspects of Mathematics and Student Carnival at Balasaheb Desai College Patan, February 14-15, 2014.
6. National Conference on Fuzzy Mathematics and it's Applications, S.G.M. College, Karad, February 5-6, 2014.
7. 20thAnnual Conference on Some Important Applicable Mathematics and Student Carnival at Shri. Vijaysinha Yadav Arts and Science College, Pethavadgaon, February 8-9, 2013.
8. National Seminar on Advances in Computational Mathematics held at R.S.C., Latur February 23-24, 2011.
9. Workshop on Algebra, Department of Mathematics, Shivaji University Kolhapur, January 29-30, 2010.
10. Workshop on Mathematical Software's, Department of Mathematics, Shivaji University Kolhapur, October 3, 2009.

Refresher and Orientation Faculty Development Course :

Sr.No	Name of the Orientation /Refresher Course/FDP	Place	Duration	Sponsoring Agency
1	**Orientation Program -91**	ASC, Goa University, Goa	01/ 01/2015 to 28/01/2015	UGC
2	**Refresher Course in** Mathematics/Statistics (ID)	ASC, BAMU Aurangabad	03/12/2013 to 23/12/2013	UGC

3	**FDP** on Applied Geometry	Dept. of Mathematics, SPPU, Pune	6/5/2019 to 12/05/2019	MHD's PMMMNMTT, UGC
4	**FDP-** on Data Science	CBS Mahila Mahavidyalaya, Sangli	14/05/20219 to 20/05/2019	FDC, SUK
5	**FDP**-on Cyber Security	Vivekanand College, Kilhapur	01/07/2019 to 07/07/2019	FDC, SUK
6	**Refresher Course:** Mathematics	Dept. of Mathematics, KBC, North Maharashtra University, Jalgaon	19/08/2019 to 01/09/2019	UGC
7	**One Week FDP** ― Moodle Learning and Management System‖	Vivekanand College, Kolhapur	25 April 2020 to 30 April 2020	MHRD
8	**Online Workshop on** Introduction to Research Based Pedagogical tools	IISER Pune and Wilson college, Mumbai	18/05/2020 to 23/05/2020	CoESME established under MHRDs PMMMNMTT
9	**International workshop** on System Modelling and Artificial Intelligence	Dept. of Mathematics and Statistics, School of Basic Sciences Manipal University, Jaipur	26/07/2021 to 30/07/2021	Manipal University, Jaipur
1	**Refresher Course in** Mathematics	Dept. of Mathematics, Ramanujan College, Delhi	31/08/2021 to 14/09/2021	MHRD-Ramanujan College, University of Delhi

Membership of Professional Committees:

1. Life member of Shivaji University Mathematical Society (SUMS).