

CURRICULUM-VITAE



Dr. Sachin Vithalrao Bedre

Assistant Professor,
Department of Mathematics,
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1. EDUCATIONAL QUALIFICATIONS:

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

- Thesis Title: Some fixed point and common fixed-Point theorem Associated with Metric and Banach spaces for Self and non self mapping
- Thesis Supervisor: Professor S. M. Khairnar
- Institute: Dean (R&D) Dr. D. Y. Patil School of Engineering Lohegaon-412105, Pune, India.
- Thesis Co-Supervisor: Dr. B. S. Desale
- Institute: Department of Mathematics, University of Mumbai, Mumbai 400 098, India.
- Graduation: **May 2016**

➤ Master of Science (M. Sc.) Mathematics:

- University: SRTM University, Nanded, India.
- Graduation: June 2003.

➤ Bachelor of Science (B.Sc.):

- University: **SRTM University, Nanded, India.**
- Graduation: **June 2005**

➤ SOFTWARE EXPOSURE:

- Computer Languages: **C, C++.**
- Computing platforms: **Linux, Windows.**
- Mathematical Softwares: **MATHEMATICA, MATLAB.**
- Text formatting and office: **LaTeX, Microsoft Word, Excel and Power Point.**

2. PROFESSIONAL EXPERIENCE:

➤ Teaching and Research Experience: 6 years 8 Month

1. Assistant Professor: 6 years 8 Month (05-01-2017 to Till date)

➤ **Administrative Experience and Activities:**

1. Research Committee and Editorial Board Member:

- One day National conference on recent trends and development in environmental and basic sciences (RTDEBS-2018) held at Dr.S.D.D.College Wada, dist. Palghar on March 10, 2018.

3. RESEARCHINTEREST:

- Nonlinear Analysis
- Integral Equations
- Differential Equations
- Fixed Point Theory

4. PROFFESIONALMEMBERSHIP:

- Editorial Board Member of American Journal of Applied Mathematics
- Editorial Board Member of Pure and Applied Mathematics Journal
- Editorial Board Member of Applied and Computational Mathematics

5. WORKSHOPS/ CONFERENCES PARTICIPATION/PAPER PRESENTATION:

1. Completed 'NSS training program' conducted by NSS-ETI Ahmednagar college, Ahmednagar, from 02-03-2022 to 08-03-2022.
2. A research paper titled as "On some coupled fixed point theorems in probabilistic b-metric spaces and nonlinear contraction", has been presented in the "**National conference on Mathematics and applications in real world**", held at S.I. Patil Arts, G.B. Patel Science and S.T.K.V.S. Commerce college, Shahada, Dist. Nandurbag, India February 21-22, 2020.
3. A research paper titled as "Hybrid common coupled fixed point results without mixed monotone type properties and application to nonlinear integral equations", has been presented in the "**National conference on Recent Trends in Mathematics**", held at Department of Mathematics Vaidyanath College, Parli-Vaijnath Dist. Beed, MS, India February 3, 2018.
4. A research paper titled as "Coupled coincidence point theorems in partially ordered quasi-metric spaces with a Q-function without g-mixed monotone", has been presented in the "**National Conference on Algebra, Analysis and Fuzzy Mathematics**", held at School of Mathematical Sciences, North Maharashtra University, Jalgaon January 29-30, 2016.
5. A research paper titled as "Hybrid random fixed point theorem and its applications", has been presented in the "**National conference on Multidisciplinary Research in Sci. and Engineering**", held at Department of Engineering Sciences, MIT Academy of Engineering, Alandi, Pune, India June 5-7, 2015.
6. A research paper titled as "Fixed point theorems for M-contraction type maps in partially ordered metric spaces and applications", has been presented in the "National conference on **Differential Equations and Applications**", held at Department of

Mathematics, University of Mumbai, Mumbai, India February 14-15, 2014.

7. A research paper titled as "Tripled coincidence point theorems in partially ordered quasi-metric spaces with a Q-function", has been presented in the "**National conference on Engineering Applications of Mathematics**", held at Department of Engineering Sciences, MIT Academy of Engineering, Alandi, Pune, India June 5-6, 2014.
8. A research paper titled as "On Some Tripled coincidence point theorems in partially ordered quasi-metric spaces", has been presented in the "**International conference on Mathematics and Its Applications**", held at Department of Mathematics, University College of Engineering, Villupuram, Tamilnadu, India December 15- 17, 2014.
9. A research paper titled as "Coupled Fixed Point Theorems In Partially Ordered Cone D*-Metric Spaces", has been presented in the "**International conference on Recent Trends in Sciences with Engineering Applications**", held at Truba Institute of Engineering and Information Technology, Bhopal, M.P. (India), April, 26-28, (2013).
10. A research paper titled as "Krasnoselskii Type Hybrid Fixed Point Theorems And Applications To Fractional Integral Equations", has been presented in the "**National conference on Engineering Applications of Mathematics**", held at Department of Engineering Sciences, MIT Academy of Engineering, Alandi(D), Pune, June 6-7, (2013).
11. A research paper titled as "Some hybrid fixed point theorems and applications", has been presented in the "**Recent Trends in Mathematics and its Applications**", held at G.D.M Arts, K.R.N Commerce and M.D. Science College, Jamner, Dist. Jalgaon (M.S.), India December 16-17, 2013.
12. A research paper titled as "Krasnosel'skii type hybrid fixed point theorems and applications to fractional integral equations", has been presented in the "**National conference on Pure and Applied Mathematics**", held at Department of Engineering Sciences, COEP Pune, India December 17-19, 2013.
13. A research paper titled as "The significance of Mathematical Models in Geographical Sciences", has been presented in the "**Sustainable Agricultural development in India: Problems and prospects**", held at Mahatma Gandhi Mahavidyalaya, Ahmedpur, Dist. Latur (M.S.) India February 13, 2011.
14. A research paper titled as "Some Applications of Fundamental Theorem of Calculus", has been presented in the "**Advances in computational Mathematics**", held at Rajeshri Shahu Mahavidyalaya, Latur (M.S) India February 23-24, 2011.
15. A research paper titled as "Some results in complete G-metric space taking rational contractive mappings", has been presented in the "**International conference on Advances in Modeling, Optimization and Computing**", held at Indian Institute of Technology, Roorkee, India December 5 - 7, 2011.
16. Attended the workshop on "**Revised Syllabus for semester IV of S. Y. B. Sc. (CBCS) Paper III in the subject of Mathematics**" organized by Jai Hind College, Churchgate, Mumbai July 6, 2017.

6. Patent:

1. M. Kothawade, G. Dhanorkar, Sachin V. Bedre, **Holographic Traffic Light**, Design no. 377648-001, Patent and Design Journal, 10/2023, 10-03-2023, part III Designs.

7. Publications:

Number of Books Published: 02

Number of Research articles:15

Number of Proceeding Articles: 04

List of Books:

1. Dr. N. K Halikar, Dr. S. D. Mahadkar, Dr. A.T. Shende and Dr. S. V. Bedre “Abstract Book National Conference on Recent Trends and Developments in Environmental and Basic Sciences (RTD EBS-2018)”, Technoscience Academy Publication, Rajkot, (2018), ISBN - 978-81-936312-1-8.
1. Dr. N. K Halikar, Dr. S. D. Mahadkar, Dr. A.T. Shende and Dr. S. V. Bedre “Journal issue National Conference on Recent Trends and Developments in Environmental and Basic Sciences (RTD EBS-2018)”, Technoscience Academy Publication, Rajkot, (2018), ISBN - 978-81-936312-1-8.

List of Articles:

1. Dhanorkar Gajanan, Sachin V. Bedre, K.M. Jadhav, *Mathematical Model of Rate of Blood Flow and Diffusion due to External and Internal Solution*, Journal of Biology and Today's World, Vol.11, Issue 2, 001-004, **(2022)**.
2. Sachin V. Bedre, *Remarks on F-weak contractions and discontinuity at the fixed point*, *Advances in the Theory of Nonlinear Analysis and its Applications*, **Vol. 4, no. 4**, pp.260-265, **(2020)**. **Impact Factor 0.4**.
3. Sachin V. Bedre, *Application of Partial Measure of Noncompactness to Tripled Fixed Points*, J. Math. Comput. Sci., **Vol 10, no. 6**, pp. 2658-2673, **(2020)**. **Impact Factor 0.1**.
4. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Nonlinear Triple Fixed and Common Triple Coincidence Fixed point Theorems in Partially Ordered Quasi-Metric Spaces*, International Journal of Mathematical Analysis, **vol 9, no. 17**, pp. 823-836, **(2015)**. **Impact Factor 0.28, H-index:10**.
5. H. M. Srivastava, Sachin V. Bedre, S. M. Khairnar, and B. S. Desale, *Krasnosel'skii type Hybrid Fixed Point Theorems and their Applications to Functional Integral Equations*, Abstract and Applied Analysis, **Volume 2014**, Article ID 710746, 9 pages, **(2014)**. **Impact Factor 0.92, H-index;29**.
6. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Fixed Point Theorems for M- Contraction Type Maps in Partially Ordered Metric Spaces and Applications*, Adv. Fixed Point Theory, **Vol 4, no. 4**, pp 532-554, **(2014)**.
7. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Some Nonunique Random Fixed Point Theorems in Polish Spaces*, Adv. Fixed Point Theory, **Vol 4, no. 4**, pp 586-604, **(2014)**.
8. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Coupled Coincidence Point Theorems for Nonlinear Contractions in Partially Ordered Quasi-Metric Spaces with a Q-Function without Mixed g- Monotone Property*, International Journal of Mathematical Analysis, **Vol8, no. 45**, pp 2205-2219, **Impact Factor 0.281,(2014)**.
9. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *On Some Tripled Coincidence Point Theorems in Partially Ordered Quasi-Metric Spaces*, Proceeding of the International

Conference on Mathematics and its Applications-2014 15-17 December-2014, University College of Engineering, Villupuram Anna University, Chennai, India: ISBN 978-81-923752-6-7, (2014).

10. Bapurao C. Dhage, Sachin V. Bedre, Namdev S. Jadhav, Shin M. Kang, *Common random fixed point theorems for a pair of generalized weakly contractive mappings in polish spaces*, Adv. Fixed Point Theory, Vol. 4 (1), pp. 12-24, (2014)
11. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *A Unique Common Quartet Fixed Point Theorem in Partially Ordered Cone Metric Spaces*, JP Journal of Fixed Point Theory and Applications, Volume 8, Number 3, pp 147-164, (2013), published on May, 2014. **Impact Factor 0.785.**
12. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Coupled Fixed Point Theorems In Cone D^* -Metric Space*, Mathematical Theory and Modeling, **Vol 3, No. 6**, pp. 297-304 (2013).
13. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Hybrid Fixed Point Theorems For M -Contraction Types Maps And applications to Functional Differential Equation*, Proceeding of "International Conference on Information and Mathematical Sciences". This proceeding is jointly published by **ELSEVIER** and Baba Farid College of Engineering and Technology, Bhatinda, Punjab. **pp. 390-396, October 2013. ISBN:9789351071624.**
14. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Some Fixed point Theorems In Partially Ordered G -Metric Spaces and Applications to Globle Existence and Attractive Results for Nonlinear Functional Integral Equations*, Proceeding of International Conference on Recent Trends in Engineering Sciences, (ICRTES'13), **this proceeding is published by Elsevier India Private Limited (2013).**
15. Sachin V. Bedre, S. M. Khairnar and B. S. Desale, *Some Fixed Point Theorem Satisfying general Contractive Condition of Integral Type in Generalized Metric Space*, International Journal of Theoretical and Applied Physics (IJTAP), **Vol 2, no. II**, pp. 139-146, (2012). **Impact Factor 0.437.**
16. Sachin V. Bedre, S. M. Khairnar, B. S. Desale and Ramakant Bhardwaj, *Fixed and Common Fixed Point Theorems in D^* -Metric Space*, International J. of Math. Sci. & Engg. Appls. (IJMSEA) Vol 6 No. V, pp. 309-328 (2012). **Impact Factor 0.5029.**
17. Sachin V. Bedre and Ramakant Bhardwaj, *Some results in complete G -metric space taking rational contractive mappings*, Proceeding of International conference on Advances in Modeling, Optimization and Computing, pp.1115-1122, (2011).
18. Ramakant Bhardwaj and Sachin V. Bedre, *Fixed point and common fixed point theorem in Banach space taking rational expression for 1, 2, 3 mapping*, Research Journal of Pure Algebra, Vol. 1(5), pp. 96-110, (2011). **Impact Factor 6.972.**
19. Sachin V. Bedre, Piyush Bhatnagar, Abha Tenguriya and R.N. Yadava, *Fixed point and common fixed point theorem in 2-Banach space taking rational expression for 1, 2, 3 mapping*, International Journal of Theoretical and Applied Science, Vol. 3(2), pp. 95-102, (2011).

I hereby declare that all the statements above are true and complete to the best of my knowledge.

Place: Wada, India
Date: 20 July 2022

Dr. Sachin V. Bedre