

FACULTY PROFILE

Name: Dr. Shivaji Ramchandra Tate
Designation: Assistant Professor & Head
Department: Mathematics
College: Kisan Veer Mahavidyalaya, Wai
Cell No.: 7276235447
Email: tateshivaji@gmail.com



Area/s of Interest: Fractional Differential and Integro-Differential Equations

1. **Educational Qualifications:** M.Sc., SET., Ph. D.
2. **Recognition as Teacher:**

UG	UNIVERSITY	Nature of Appointment	Reference No.
UG	Kisan Veer mahavidyalaya, Wai Affiliated to Shivaji University, Kolhapur	Permanent	JSS/30/10

3. **Teaching Experience:**

Institution	Position Held	Nature of Appointment	Subject	Period of Appointment With dates
Kisan Veer mahavidyalaya, Wai	Assistant Professor	Permanent	Mathematics	16/08/2010 onwards
Total experience at the Under-Graduate level				9 Year & 6 Months

4. **Academic Staff College Orientation / Refresher Course/ ISTE - AICTE Sponsored STTP/SBP attended so far:**

Course/ Summer School	Place	Duration	Sponsoring Agency
Orientation	Goa University, Goa	15/01/2013 to 12/02/2013	UGC
Refresher Course	Punjabi University, Patiala	12-31/05/2014	UGC
Refresher Course	University of Hyderabad, Hyderabad	18-31/07/2019	UGC
Refresher Course (ARPIT)	Guru Jambheshwar university of Science & Technology Hisar, Haryana	01 Oct 2019 to 31 Jan 2020	AICTE
Refresher Course	Teaching Learning Centre, Ramanujan College University of Delhi	31 Aug 2021 to 14 Sept 2021	PMMMNM

5. Research Papers in UGC / Refereed Recognized Journals:

1. Kharat, V.V., Tate, S., Gophane, M.T., Reshimkar, A.R., 2023. A nonlocal Cauchy problem for nonlinear generalized fractional integro-differential equations. *Studia Universitatis Babes-Bolyai*, 68(3), pp. 489-506.
2. Kharat, V.V., Tate, S., Gophane, M.T., Gandhi, M.A., 2023. Some results on ψ -Hilfer Volterra-Fredholm fractional integro-differential equations. *Journal of Advanced Mathematical Studies*, 16(1), pp. 66-76.
3. Kharat, V.V., Tate, S., Reshimkar, A. R., 2021. Some existence results on implicit fractional differential equations. *Filomat*, 35(12), pp. 4257-4265.
4. Tate, S., Dinde, H.T., 2020. Ulam stabilities for nonlinear fractional integro-differential equations with constant coefficient via Pachpatte's inequality. *Journal of Mathematical Modeling*, pp.1-22.
5. Kharat, V. V., Tate, S. R., 2020. Ulam Stabilities for a class of nonlinear mixed fractional integro-differential equations. *Nonlinear Studies*, 27(3), pp. 811-821.
6. Tate, S., Kharat, V.V., Dinde, H.T., 2019. On nonlinear mixed fractional integro-differential equations with positive constant coefficient. *Filomat*, 33(17), pp.5623-5638.
7. Tate, S., Dinde, H.T., 2020. Existence and uniqueness results for nonlinear implicit fractional differential equations with non-local conditions. *Palestine journal of mathematics*, 9(1).
8. Tate, S., Kharat, V.V., Dinde, H.T., 2019. A nonlocal Cauchy problem for nonlinear fractional integro-differential equations with positive constant coefficient. *Journal of Mathematical Modeling*, 7(1), pp.133-151.
9. Tate, S., Dinde, H.T., 2019. Boundary value Problems for nonlinear implicit fractional differential equations. *Journal Nonlinear Analysis and Application*. (2019)(2), pp. 29-40.
10. Tate, S., Kharat, V.V., Dinde, H.T., 2019. On Nonlinear Fractional Integro-Differential Equations with Positive Constant Coefficient. *Mediterranean Journal of Mathematics*, 16(2), p.41.
11. Tate, S., Dinde, H.T., 2019. A New Modification of Adomian Decomposition Method for Nonlinear Fractional-Order Volterra Integro-Differential Equations. *World Journal of Modelling and Simulation*, 15(1), pp.33-41.
12. Tate, S., Dinde, H.T., 2017. Some Theorems on Cauchy Problem for Nonlinear Fractional Differential Equations with Positive Constant Coefficient. *Mediterranean Journal of Mathematics*, 14(2), p.72.
13. Tate, S., Dinde, H.T., 2017. New iterative method: An application for solving nonlinear fractional-order Volterra Integro-differential equations. *World Journal of Modelling and Simulation*, 13(1), pp.37-44.
14. Tate, S., 2017. A New Iterative Method for Riccati Differential Equation. *International Journal for Research in Applied Science and Engineering Technology*, 5(11), pp. 2722 – 2725.
15. Tate, S., 2016. Application of Taylor polynomials in new iterative method. *Golden Research Thoughts*, 6(6), pp. 1-6.
16. Tate, S., 2015. On Approximate Solution of Time-Fractional Advection-Dispersion Equation. *International Journal of Latest Research in Science and Technology*, 4(6), 8-11.
17. Tate, S., 2012. Solving Quadratic Riccati Differential Equation using New Iterative Method. *Golden Research Thoughts*, 1(8), 1-4.

18. Tate, S., 2011. Differential Transform Method for Solving Homogeneous and the Non Homogeneous Advection Problem. *Indian Streams Research Journal*, 2230-7850.

6. Presented Research Papers in the International / National /State Level Conferences/Seminars:

1. Presented a research paper entitled **“On Existence and Stability Results for mixed Caputo fractional integro-differential equation”** in 2nd National Conference on Science and Technology For Sustainable Development held on 16th December, 2023 organized by Faculty of Science and IQAC, Jaysingpur College, Jaysingpur.
2. Presented a research paper entitled **“Existence and Uniqueness of Solutions for Fractional Integrodifferential Equations using Topological Methods”** in the National Conference on Abstract, Applied and Computational Mathematics (NCAACM-2023) on 27th May 2023, organized by N B Navale Sinhgad College of Engineering, Solapur.
3. Presented a research paper entitled **“Existence and Uniqueness Results For Nonlinear Fractional Integro- Differential Equations with Nonlocal Initial Condition”** in International Conference on Computational Mathematics (ICCM- organized by Department of Mathematics, Sadguru Gadage Maharaj College, Karad on 3rd February, 2023.
4. Presented a research paper entitled **“Nonlinear Fractional Integro- Differential Equations and their Existence Via Fixed Point Theory Concerning to Hilfer Generalized Proportional Fractional Derivative”** in national conference on "Emerging Trends in Applied Mathematics and Statistics" organized by Department of Mathematics and Statistics, Balwant College, Vita held on 29th December 2022.
5. Presented a research paper entitled **“Existence and Uniqueness of Solutions for Nonlinear Fractional Relaxation Differential Equations in terms of Caputo Fractional Derivatives”** in National Conference on Recent Trends in Mathematics and Statistics (RTMS-2022) dated 9th November, 2022 jointly organized by Department of Mathematics & Statistics with IQAC, D. P. Bhosale College, Koregaon, District- Satara, Maharashtra, India.
6. Presented a research paper entitled **“On Nonlinear Fractional Integrodifferential Equations with Hilfer Generalized Proportional Fractional Derivative”** in International Conference on "Advances in Computational Sciences' (ICACS-2022) organized by School of Computational Sciences (Department of Statistics, Mathematics and Computer Science) (Rashtriya Uchcharat Shiksha Abhiyan (RUSA)

Sponsored) Yashavantrao Chavan Institute of Science, Satara (Autonomous) on 20th - 21st May 2022.

7. Presented a research paper entitled **“Some Results on Nonlinear Fractional Integrodifferential Equations involving Hilfer Generalized Proportional Fractional Derivative”** in Online National Conference on Recent Advances in Mathematics-2022 (NCRAM-2022) organized by Department of Mathematics and I.Q.A.C., Dattajirao Kadam, Arts, Science and Commerce college, Ichalkaranji on 27th May 2022.
8. Presented a research paper entitled **“A Nonlocal Cauchy Problem for Nonlinear Caputo Fractional Relaxation Differential Equations”** in "National Conference on Mathematical Analysis and Applications - 2022" organized by the Department of Mathematics, Shivaji University, Kolhapur during 21-22 March, 2022.
9. Presented a research paper entitled **“Some results on mixed fractional integro-differential equations involving Psi-Hilfer fractional derivative”** in 4th International Conference on Frontiers in Industrial and Applied Mathematics (Virtual Mode) organized by Department of Mathematics, Sant Longowal Institute of Engineering & Technology during 21-22 December 2021.
10. Presented a research paper entitled **“On Ψ - Hilfer Mixed Fractional Integro-Differential Equations”** in the National e-Conference "Recent Trends in Pure and Applied Mathematics" (NCRTPAM-2021) on 24th July 2021, organized by N B Navale Sinhgad College of Engineering, Solapur. in Collaboration with Shivaji University Mathematical Society (SUMS), Kolhapur.
11. Presented a research paper entitled **“On Existence and Stability Results for Nonlinear Fractional Integro-differential equations of Voltera Type”** at National Conference on Modern And Computational Mathematics (NCMCM-2020) organized by Yashavantrao Chavan Institute of Science, Satara (Autonomous) and Shivaji University, Kolhapur on 26th -27th February, 2020.
12. Presented a research paper in National Conference (Recent Developments in Pure and Applied Mathematics) **“Ulam Stabilities for a Class of Non-linear Mixed Fractional Integro-Differential Equations”** on 26th -27th February, 2019, organized by Department of Mathematics, YCIS, Satara.
13. Presented a research paper in National Conference (Advances in Differential Equations-2018) on **“Existence and Ulam Stability Results for Boundary Value Problem for Nonlinear Fractional Integro Differential Equations with Positive**

Constant Coefficient” on 29th September, 2018, organized by Department of Mathematics, Vivekanand College, Kolhapur.

14. Presented a research paper entitled **“On Approximate Solution of time - fractional Advection - Dispersion Equation”** at International Conference on Mathematical Sciences - 2015 (MSC-2015) organized by Sadguru Gadage Maharaj College, Karad on 15th and 16th September, 2015.
15. Presented a research paper in National Seminar on **“Numerical Solution of Nonlinear Fractional-Order Volterra Integro-Differential Equations by Modification of The Adomian Decomposition Method”** on 27th - 28th February, 2017, organized by Department of Mathematics, Shivaji University, Kolhapur.

7. Participated in the International / National Conferences:

- 1) Participated in One Day National Level E- Conference on **“Soft Skill Development of Rural UG Students”** Organized by Department of English. Arts, Commerce & Science College, Arvi, Dist.- Wardha on Saturday, 12th Feb. 2022.
- 2) Participated in National Level Conference **“Introducing Film Studies in Curriculum”** organised by Department of English, Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani Commerce College, Kopargaon Dist. Ahmednagar 423 601 (Maharashtra) on 10th February 2022.
- 3) Participated in Online National Conference on **“RECENT TRENDS IN MATHEMATICS”** organized by IQAC & Department of Mathematics, Shri Pancham Khemraj Mahavidyalaya, Sawantwadi on 27th August, 2021.
- 4) Participated in the Five-Day International Conference on **“Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020)”** hosted at School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi-110067, India, held online during July 20-24, 2020.
- 5) Participated in XX Annual National Conference of M. C. E. A. M Pune, Organized by, Kisan Veer Mahavidyalaya, Wai in Collaboration with Sir Dr. M. S. G. Foundation, Mumbai on 19th -21st Oct 2013.

8. Participated in the University Level Conferences:

- 1) Annual SUMS Conference on **“Advances in Mathematics and Students Carnival”** Sponsored by SUMS & Shivaji University, Kolhapur, organized by Department of Mathematics, Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, on 1-2 February, 2019 (Along with students).

- 2) 24th Annual SUMS Conference on “**Recent Trends in Mathematics And Students' Carnival**” Sponsored by SUMS & Shivaji University, Kolhapur , organized by Department of Mathematics, Raje Ramrao Mahavidyalaya, Jath, Dist- Sangli on 18th March, 2017 (Along with students).
- 3) 23rd Annual SUMS Conference on “**Recent Trends in Mathematics and Students Carnival**” Sponsored by SUMS & Shivaji University, Kolhapur , organized by Department of Mathematics, Yashwantrao Chavan College of Science, Karad on 11th February, 2016 (Along with students).
- 4) 22nd Annual SUMS Conference on “ **Computational Techniques in Mathematical Sciences & Students Carnival**” Sponsored by SUMS & Shivaji University, Kolhapur , Organized by , Balwant College, Vita on 9th & 10th March, 2015 (Along with students).
- 5) 21st Annual SUMS Conference on “**Some Important Aspects of Mathematics & Students Carnival**” Sponsored by SUMS & Shivaji University, Kolhapur, organized by Balasaheb Desai College, Patan on 14th - 15th February, 2014 (Along with students).
- 6) 18th Annual Conference of Shivaji University Mathematics Society on “**Recent Trends In Discrete Mathematics**” Conducted by Krishna Mahavidyalaya, Rethare (Bk.), Karad on 17th & 18th Feb 2011.

9. Participated in the International Seminars:

- 1) Participated in International Webinar on “**Biomedical Science and Bioinformatics**” organised by Department of Zoology and IQAC, Kisan Veer Mahavidyalaya, Wai Tal- Wai, Dist- Satara State-Maharashtra (India) on Saturday, 5th September 2020 .
- 2) Participated in One-Day International Webinar on “**COVID-19 & Global Tourism: New Challenges**” organized by Department of Geography and Internal Quality Assurance Cell of Kisan Veer Mahavidyalaya, Wai, Dist. Satara, Maharashtra (India) on 25th September 2020 .
- 3) Participated in International Webinar on “**Healthy Lifestyle Management Throught Physical Activity, Diet and Rest**” organized by Department of Sports and Internal Quality Assurance Cell of Kisan Veer Mahavidyalaya, Wai, Dist. Satara, Maharashtra (India) held on 26th September 2020 .
- 4) Participated in International Webinar on “**Technological Trends in Mathematics and Statistics (TTMS-2020)**” jointly organized by Department of Mathematics and Department of Statistics, Yashwantrao Chavan Institute of Science , Satara (Autonomous) on 26th September, 2020 .

- 5) Participated in International Webinar “**Recent Advancement in Information Technology & Mathematics**” conducted by Govt. Narmada College Hoshangabad, Dist. Hoshangabad (M.P.) India on 17th May, 2020.
- 6) Participated in International Level WEBINAR ON “**History of Mathematics**” organized by Department of Mathematics in collaboration with Internal Quality Assurance Cell V.S.Patel College of Arts & Science, Bilimora, Gujarat, India on 9th May, 2020.

10. Participated in the National Seminars:

- 1) Participated in National Level Webinar on “**Differential Equation and Its Applications**” and Its held on 19th June 2021 organized by Department of Mathematics, Government First Grade College or Women, Jamkhandi, Dist: Bagalkot, Karnataka.
- 2) Participated in National Webinar on “**Plagiarism & Publication Ethics with Reference to academic Integrity**” organized by Central Library, Arya Vidyapeeth College, Guwahati, Assam held on 10th July 2021.
- 3) Participated in National Level Webinar on “**Know your pension rule**” Organized by Internal Quality Assurance Cell (IQAC) on Saturday, 10/07/2021 organized by Padmabhushan Dr. Vasantodada Patil Mahavidyalaya, Tasgaon Sangli Maharashtra, India.
- 4) Participated in Online National Webinar on “**Multimedia Enriched E-content Development for Effective Online Teaching**” organized by IQAC, Department of Botany and Department of Computer Science, Yashwantrao Chavan College of Science, Karad on 1st March, 2022.
- 5) Participated in the National Webinar on “**Emerging Research Areas in Language, Literature and Culture**” organized by Department of English, Research Committee & IQAC in collaboration with Satara Chapter, English Language Teachers Association of India (ELT@I) on Monday 28th June 2021.
- 6) Participated in the National Webinar on “**Cracking the Research Code: Tips, Tricks, Tools and Techniques**” on 23rd JUNE 2021 organized by D.A.V. COLLEGE, ABOI-IAR (PB.)
- 7) Participated in National Webinar on “**Impossibilities Via Mathematics Application of Mathematics a Careers in Mathematics**” organized by Shri Shahaji Chhatrapati Mahavidyalaya, Kolhapur on 21st June 2021.

- 8) Participated in National Webinar on “**Importance of soft Skills for Interview Cracking**” organized by Vocational Education & Training Committee & IQAC of KVM, Wai held on 11th February, 2021.
- 9) Participated in National Webinar on “**Data Science Future Directions & Career Opportunities**” organized by Department of Statistics of Kisan Veer Mahavidyalaya, Wai, Dist. Satara, Maharashtra in Collaboration with edu plus now on 12th March 2021.
- 10) Participated in One Day National Level Webinar on “**Use of WOLFRAM Mathematica in Learning & Research in Mathematics**” organized by Mathematics Department of Mudhoji College, Phaltan on 26th July 2021.
- 11) Participated in One Day National Webinar on “**Career Opportunities in Mathematics**” Under Lead College Scheme, held on December 22, 2020 organized by Department of Mathematics and IQAC, Dahiwadi College, Dahiwadi.
- 12) Participated in online One Day National Webinar on “**Problems of Agricultural Pricing & the Three Recent Agricultural Legislation**” organized by Dept. of Economics, IQAC of Savitribai Phule Mahila Mahavidyalaya, Satara on 12th Jan 2021.
- 13) Participated in National Webinar on “**Agricultural Pests and Management**” organized by Department of Zoology and IQAC, Kisan Veer Mahavidyalaya, Wai Tal- Wai, Dist- Satara State- Maharashtra (India) on 4th September 2020.
- 14) Participated in National Webinar on “**Fractional Calculus and Dynamical Systems**” jointly organized by IQAC, Department of Mathematics & Statistics of Jaysingpur College, Jaysingpur (Maharashtra) on 12th September 2020.
- 15) Participated in National Webinar on “**Android App Development: Challenges & Opportunities**” organized by Department of BCA, Library and IQAC of Kisan Veer Mahavidyalaya, Wai, Dist. Satara, Maharashtra (India) held on 27th September, 2020.
- 16) Participated in National Webinar on “**Role of NCC in Nation Building and Developing Atmanirbhar Bharat**” by NCC Unit and IQAC, Kisan Veer Mahavidyalaya, Wai Tal- Wai, Dist- Satara State- Maharashtra (India) on 28th August 2020 .
- 17) Participated in National Webinar on “**Modern Aspects of Complex Analysis and its Applications**” organized by Department of Mathematics and IQAC of Sadguru Gadage Maharaj College, Karad, Dist: Satara (Maharashtra) on 5th August, 2020.
- 18) Participated in National Webinar on “**Strategies for Scholarly Writing**” conducted by the IQAC cell, GFGC & PG Center, Chintamani held on 01 June, 2020.

- 19) Participated in National Webinar on “**IPR & e-Content Development**” conducted by Rajaram College, Kolhapur held on 8th – 10th June, 2020.
- 20) Participated in National Webinar on the topic “**Role of Science & Technology during COVID-19 Pandemic**” on 12th June, 2020 organized by NCC UNIT of Dayanand College, Hisar.
- 21) Participated in National Webinar on “**Applications of Fuzzy Mathematics**” held on 15th June, 2020 organized by Department of Mathematics, Sengamala Thayaar Educational Trust Woman’s College with Chennai Softech - Technical Partner.
- 22) Participated in National Webinar on “**Current Research in Fuzzy Mathematics**” organized by Shri Pushpam College (Autonomous), Poondi, Tamil nadu held on 24th May, 2020.
- 23) Participated in Two Day Online National Seminar on “**Recent Research Topics in Mathematics**” organized by Department of Mathematics, Auxilium College, Gandhi nagar, Tamil nadu during 28th - 29th May 2020.
- 24) Participated in National Seminar on “**Recent Trends in Commerce, Management and Economics**” organized by Departments of Commerce and Economics, Kisan Veer Mahavidyalaya, Wai in association with Shivaji University, Kolhapur on 23rd December, 2017.
- 25) Participated in One day National Seminar on “**Private Universities & Quality of Higher education**” Organized by Shivaji University Teachers Association on 6th October, 2013 at Dr. Bapuji Salunkhe Smruti Sabhagruh, Kolhapur.
- 26) National Seminar on “**Proposed Maharashtra Universities Act & Quality of Higher education**” Organized by Shivaji University Teachers Association on 17th February, 2013 at Y. C. Institute of Science, Satara
- 27) Participation in National Level Seminar “**Application of Mathematics & Statistics in Research Methodology**” Organized by Yashwantrao Mohite College, Pune on 29th February, 2012.
- 28) Participation in National Seminar on “**Quality of Higher education & Kakodkar Report**” Organized by Shivaji University Teachers Association on 2nd September, 2012 at Dr. V. T. Patil Smrutibhavan, Kamala College Campus, Kolhapur.

11.Participated in the State/ University Level Seminars:

- 1) Participated in State Level Webinar on **“BIODIVERSITY AND NATURE”** organized by Department of Botany & IQAC, Kisan Veer Mahavidyalaya, Wai on 31st May 2021.
- 2) Participated in Online State Level Webinar on **“DCPS to NPS: Information and Guidance”** organized by St. Joseph College, Uttar Vasai on 21st Feb 2022.
- 3) Participated in State Level Webinar on **“Intellectual Property Rights & Quality Improvement”** organized by Department of Library & IQAC, Kisan Veer Mahavidyalaya, Wai held on 30th June 2021.
- 4) Participated in State Level Webinar on **Shivcharitra** organized by Kisan Veer Mahavidyalaya, Wai held on 6th June 2021.
- 5) Participated in State Level Webinar on **“UGC SWAYAM MOOC COURSES”** Jointly organized by Staff Training Committee and IQAC of KVM, Wai on 8th April, 2021.
- 6) Participated in State Level Webinar on **“Lending topics in nanomaterial’s and chemical sciences”** organized by Department of Chemistry & IQAC of Kisan Veer Mahavidyalaya, Wai held on 19th June 2021.
- 7) Participated in Two-Day State Level Webinar on **“Awareness of COVID-19 & Vaccination”** Organized by KVM Wai and YCM, Panchwad held on 20 & 29th May 2021.
- 8) Participated the Webinar on **“Careers in Mathematics”** dated 06th June, 2020” conducted by Department of Mathematics, R. K. Talreja College of Arts, Science & Commerce, Ulhasnagar-3.
- 9) Participated in Webinar on **“Qualitative theory of Nonlinear Fractional Differential Equations”** organized by Milind College of Science, Aurangabad on 5th June, 2020.
- 10) Participated in One Day State Level Webinar on **“Google Class-room: Creation & Management”** organized by IQAC, Department of Library & BCA, Kisan Veer Mahavidyalaya, Wai on 23rd May, 2020.
- 11) Participated in Webinar on **“ADCET Webinar Series”** conducted by Department of Basic Sciences, Annasaheb Dange College of Engineering & Technology, Ashta held on 21st - 26th May, 2020.

- 12) Participated in the one day state level seminar on “**Defined Contributory Pension Scheme (D.C.P.S.)**” organized by Shivaji University Teacher’s Association (SUTA), Kolhapur; held on Sunday 13th August 2017 at Y.C.I.S. Satara.
- 13) Participated in One day Seminar on “**UPSC & MPSC Examination: Nature & Preparation**”, Organized by the UGC-Sponsored Entry-in Services Coaching [Centre for SC/ST/OBC & Minorities Students], Kisan Veer Mahavidyalaya, Wai in Collaboration with the Unique Academy, Pune on 24th August, 2013.
- 14) Participation in State Level Seminar “**Role of Mathematics in Life Science**” Organized by Modern College of Arts, Science & Commerce, Pune on 6-7 February, 2012.
- 15) Participation in State level Seminar on “**Literature of Late V. V. Shirwadkar : Estimation & Analysis**” Organized by K. V. M. College, Wai on 24th -25th August, 2012.

12. Participation in Workshops/ Short Term Training Program:

- 1) Participated in One Day Workshop on Changed Syllabus of B.Sc. II Mathematics P. No. DSC-C5 & DSC-C6 with Practical's organized by Department of Mathematics, Balasaheb Desai College, Patan on Saturday, 21st October, 2023.
- 2) Participated in workshop on “**Research Paradigms**” organized by the Department of Commerce, CHRIST COLLEGE PUNE held on 5th November 2022.
- 3) Participated One Day Workshop on “**All India Survey on Higher Education 2021-22**” organized by the Statistical Cell, Shivaji University, Kolhapur on 20th December 2022.
- 4) Participated in one day workshop on “**NEW CHANCEC REVISED SYLLABUS OF B.Sc. I (NEP), MATHEMATICS, SEMESTER I, PAPER I & II & CCPM – I**” sponsored by University. Kolhapur on Friday. 9th December 2022.
- 5) Participated in the MHRD Sponsored One Day Online Workshop on “**AISHE Web DCF Portal**” organized by the Statistical Cell, Shivaji University, Kolhapur on 10th January, 2022.
- 6) Participated in One Day workshop on “**Syllabus Change: B.Sc.III (Maths) sem-V**” organized by Department of Mathematics, Shri Vijaysinha Yadav College, Peth Vadgaon, Dist:Kolhapur and sponsored by Shivaji university, Kolhapur on 23/01/2021.
- 7) Participated in One Day workshop on One Day Online Workshop on “**Revised Syllabus of B.Sc. III Mathematics, Semester VI**” organized by Internal Quality

Assurance Cell (IQAC) and Department of Mathematics, Yashwantrao Chavan College of Science, Karad on 9th February, 2021.

- 8) Participated in One Day workshop on “ **Revised syllabus in Mathematics practicals at B.Sc. III** ” organized by Department of Mathematics, Smt. Kasturbai Walchand College, Sangli on 11th February, 2021.
- 9) Participated in One Day Workshop on “**Performance Based Appraisal System (Pbas) Academic Performance Indicators (API) For Teachers**” organized by IQAC & Library, Bharatiya Mahavidyalaya, Amravati held on Thursday 23rd July 2020.
- 10) Participated and successfully completed 5 Days Program on “**IT Skills for Smart Teaching**” organized by Rotary International District 3132 and Rotary India Literacy Mission.
- 11) Participated and successfully completed the Ten Days State Level Online Workshop on “**E-Educational Content Development**” conducted by Chhatrapati Shivaji College, Satara and Shri Shahu Mandir Mahavidyalaya, Pune, from 11th -20th May, 2020.
- 12) Participated and successfully completed the online Short Term Training Program on “**MATLAB based Teaching-Learning in Mathematics, Science & Engineering**” organized by the Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., Mumbai during 18th - 22nd May 2020.
- 13) Participated in One Day State Level Workshop on “**Search Techniques for Online E- Resources**” on 8th May, 2020 organized IQAC & Staff Academy Committee, Kisan Veer Mahavidyalaya, Wai.
- 14) Participated in One day National Workshop on “**Submission of Online AQAR Under Revised NAAC Guidelines**” organized by IQAC Sardar Babasaheb Mane Mahavidyalaya, Rahimatpur on Friday 11th October, 2019.
- 15) Participated in Workshop on “**B. Sc. II Mathematics P. No. 5C & 5D with Practical's**” organized by Department of Mathematics, Balasaheb Desai College, Patan and Shivaji University Kolhapur on Friday 13th September, 2019.
- 16) Participated in Workshop on “**Revised Syllabus of B.Sc. II Mathematics P. No- 6C & 6D with Practical's**” organized by Rajarshi Chhatrapati Shahu College, Kolhapur and Shivaji University Kolhapur on 31st August, 2019.
- 17) Participated in Workshop on “**Yuva Mahiti Dut**” organized by NSS, Arts and Commerce College, Satara collaboration with UNICEF, Directorate General of

Information & Public Relations, Government of Maharashtra, Shivaji University, Kolhapur on 29th October, 2018.

- 18) Participated in Workshop on “**Revised Syllabus in Mathematics at B.Sc.I (CBCS), Sem-II**” organized by Karmaveer Bhaurao Patil College, Urun-Islampur, Dist-Sangali and sponsored by Shivaji University, Kolhapur on 30th August, 2018.
- 19) Participated in Workshop on “**Revised Syllabus in Mathematics at B.Sc.I (CBCS), Sem- I, Paper-I & II** ” organized by Shri Vijaysinh Yadav Arts and Science College, Peth Vadgaon, Tal. Hatkangangale, Dist. Kolhapur and sponsored by Shivaji University, Kolhapur on 11th August, 2018.
- 20) Participated in Workshop on “**College Website Design, Up-gradation & Maintenance**” organized by Kisan Veer Mahavidyalaya, Wai under lead college scheme on 8th August, 2018.
- 21) Participated in Workshop on “**Revised B.Sc.III Mathematics, Sem-V & VI Practicals**” organized by Rajarshi Chhatrapati Shahu College, Kolhapur and sponsored by Shivaji University, Kolhapur on 3rd September, 2015.
- 22) Participated in Workshop on “**Revised Syllabus in Mathematics at B.Sc. II, Semester IV**” of Shivaji University, Kolhapur, held at Deshbhakt Anandrao Balawantrao Naik Art & Science College, Chikhali and sponsored by Shivaji University, Kolhapur on 6th September, 2014.
- 23) Participated in One day Workshop on “**Strengths, Challenges and Opportunities in Competitive Examinations**”, Organized by the UGC-Sponsored Entry-in Services Coaching [Centre for SC/ST/OBC & Minorities Students], Kisan Veer Mahavidyalaya, Wai in Collaboration with the Unique Academy, Pune on 23rd August, 2014.
- 24) Participated in Workshop on “**Revised Syllabus in Mathematics at B.Sc. II, Semester III, Paper V & VI**” of Shivaji University, Kolhapur, held at Shri. Vijaysinha Yadav Art & Science College, Peth Vadgaon and sponsored by Shivaji University, Kolhapur on 5th August, 2014.
- 25) Participated in Two day Camp on “**Personality Development & Carrier in Statistics**” Jointly Organized by SUSTA & Department of Statistics, Kisan Veer Mahavidyalaya, Wai ,held on 11th to 12th January, 2014.(Work as an Organizing Committee Member)
- 26) Participated in Workshop on “**Entrepreneurship Awareness Camp**” Organized by SVS’s IMCON Satara Co-ordination with Rotary Club, Wai & K. V. M. Wai on 16th January, 2014.

- 27) Participated in Workshop on “**Revised Syllabus in Mathematics at B.Sc. I**” of Shivaji University, Kolhapur, held at Deshbhakt Anandrao Balawantrao Naik Art & Science College, Chikhali and sponsored by Shivaji University, Kolhapur on 14th August, 2013.
- 28) Participated in Workshop on “**UGC API Score System**” Organized by SUTA Branch Wai, held on 3rd August, 2013.
- 29) Participated in One day Workshop on “**Entrepreneurship Awareness**” on 2nd January, 2013 organized by Kisan Veer Mahavidyalaya, Wai.
- 30) Participated in National Workshop on “**Recent Trends in Applied Statistics**” Organized by Y. C. I. S. College, Satara on 14th & 15th December, 2012.
- 31) Participated in One day Workshop on “**The Revised Syllabi of UPSC & MPSC Examinations**” Organized by (UGC- Sponsored Entry-in-Services coaching Centre for SC/ST/OBC & Minorities Students) Kisan Veer Mahavidyalaya, Wai on 14th September, 2012.
- 32) Participated in One Day Workshop on “**C, C++, Matlab**” Organized by L. B. S. College, Satara on 25th January, 2012.
- 33) Participated in One Day Workshop on “**UPSC & MPSC Competitive Examinations**” Organized by UGC-Sponsored Entry-in-Services Coaching Kisan veer Mahavidyalaya, Wai on 17th January, 2012.
- 34) Participated in One Day Workshop on “**UGC NEW API SYSTEM**” Organized by SUTA, Kolhapur, on 11th March, 2012.

13. Participation in Faculty Development Program:

- 1) Participated in an "International FDP on Recent Trends in Graph Theory and Mathematical Modelling & its Applications" conducted by Department of Mathematics Mohamed Sathak A.J. College of Engineering (Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai) from 12.06.2023 to 16.06.2023.
- 2) Participated in Two days National Level FDP on "Mathematics Behind AI/ML" organized by the School of Humanities and Engineering Sciences, MIT Academy of Engineering, Alandi, Pune, Maharashtra, India during 17th -18th May 2023.
- 3) Participated in the “**FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON MATHEMATICAL TOOLS**” conducted by the Department of Science and Humanities of Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore between 21st June, 2021 to 25th June, 2021.

- 4) Participated in Two - Day State Level Faculty Development Programme on “**E-Content Development**” organized by IQAC & Staff Training Committee of Kisan Veer Mahavidyalaya, Wai, Dist. Satara on 17th & 18th February, 2020.
- 5) Participated and successfully completed One Week National Online Faculty Development Program on **ICT Tools for Effective Teaching Learning**, from 27th April to 2nd May 2020, organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded.
- 6) Participated and successfully completed One Week Faculty Development Program on one week faculty development program, on “**Spoken Tutorial Technology**” organized by Julelal Institute of Technology, Nagpur from 03 May - 09 May 2020.
- 7) Participated and successfully completed Three Day National Level Faculty Development Programme (Workshop) on “ **Skill Development for Online Teaching** ” organised by the IQAC of Bhavan’s College, Andheri(W). Mumbai, held from 5th May to 7th May 2020.
- 8) Participated and successfully completed One Week Faculty Development Program on **GeoGebra** organized by Department of Mathematics, R. K. College in association with Spoken Tutorial Software Training Project developed by Indian Institute of Technology - Bombay, an initiative of National Mission on Education through ICT, MHRD, Govt. of India from 6th - 12th May, 2020.
- 9) Participated and successfully completed the Faculty Development Programme on “**MOODLE Learning Management System**” organized by V. P. Institute of Management Studies and Research, Sangli in association with Spoken- Tutorial IIT Bombay, during 12th – 17th May 2020.
- 10) Participated and successfully completed One Week Faculty Development Program on **GeoGebra 5.04** organized by Department of Mathematics, Willingdon College, Sangali in association with Spoken Tutorial Software Training Project developed by Indian Institute of Technology - Bombay, an initiative of National Mission on Education Through ICT, MHRD, Govt. of India from 23rd to 29th May, 2020.
- 11) Participated and successfully completed One Week Faculty Development Program on “**Moodle Learning Management System**” organized by Willingdon College, Sangali in association with Spoken Tutorial Software Training Project developed by Indian Institute of Technology - Bombay, an initiative of National Mission on Education Through ICT, MHRD, Govt. of India from 23rd to 29th May, 2020.
- 12) Participated and successfully completed One Week Faculty Development Program on “**Modern Teaching, Evaluation and Research Methodology**” Under UGC Scheme

Stride Component-I organized by Vinayakrao Patil Mahavidyalaya, Vijapur, Dist- Aurangabad, from 2nd – 7th June, 2020.

- 13) Participated and successfully completed One-Day Online National Faculty Development Programme (FDP) on "**Learning Management System (LMS): Vriddhi Software**" organized by IQAC and Admission Committee of Kisan Veer Mahavidyalaya, Wai in association with Hindusthan Computers, Malegaon on 9th June, 2020 .
- 14) Participated and successfully completed an Online Faculty Development Programme in the **Pure and Applied Mathematics** organized by the PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College (Autonomous), Tiruchirappalli from 11th – 17th June, 2020.
- 15) Participated and successfully completed the International Online Faculty Development Program on "**Mathematical Sciences**" organized by the Division of Mathematics, Department of Science and Humanities, VFSTR, Vadlamudi, Guntur District, Andhra Pradesh, India from 18th - 24th July, 2020.

14. Guest Lectures delivered:

- 1) A lecture on "**Application of Derivative**" on 8th December, 2013, in Shri. Bhimrao Shinde Mahila Mahavidyalaya, Wai.
- 2) A lecture on "**Differential Equation**" on 12th February, 2014, in Shri. Bhimrao Shinde Mahila Mahavidyalaya, Wai.
- 3) A lecture on "**Limit of a function**" on 18th December, 2014, in Shri. Bhimrao Shinde Mahila Mahavidyalaya, Wai.
- 4) A lecture on "**Continuity of Functions**" on 19th January, 2015 in Shri. Bhimrao Shinde Mahila Mahavidyalaya, Wai.
- 5) A lecture on "**C-Language Programming**" on 18th November, 2017, in Rajendra Mahavidyalaya, Khandala.
- 6) A lecture on "**Sci-Lab**" on 20th Nov 2017, in Rajendra Mahavidyalaya, Khandala.
- 7) A lecture on "**Sci-Lab and C++**" on 8th September, 2018, in Rajendra Mahavidyalaya, Khandala.
- 8) A lecture on "**Introduction to Sci-Lab**" on 18th September, 2019, in Sushila Shankarrao Gadhave Mahavidyalaya, Khandala.

15. Worked as reviewer in journals:

- 1) **Computational Methods for Differential Equations**
- 2) **Discrete Dynamics in Nature and Society**

16. Work at University Level:

1. University Examiner for practical in Mathematics at B. Sc. Part I, II & III.
2. University Examiner for Theory Assessment at B.Sc. Part I, II & III.
3. Senior and Junior Supervisor for University theory examinations.

17. Work at the College Level (In Charge/Vice Principal, Co-ordinator, Member):

Academic year 2013-14:

Members of Gymkhana & Sports
Members of Teachers Aids Committees
Members of Admission Committee
Members of Attendance Committees
Flex Board Committee (Coordinator)

Academic year 2014-15

Members of Placement Cell
Flex Board Committee (Coordinator)
Member of Anti-Smoking Committee
Member of Academic Calendar Committee

Academic year 2015-16

Members of Placement Cell
Member of Anti-Smoking Committee
Member of Gymkhana & Sports.
Earn While You Learn Committee (Convener)
Student Program Evaluation Committee (Convener)

Academic year 2016-17

Members of Flex Board Committee
Anti-Ragging Committee (Convener)
Member of Anti-Smoking Committee
Member of Placement Cell Committee
Convener of Student Program Evaluation Committee

Academic year 2017-18

Anti-Ragging Committee (Convener)
Member of Anti-Smoking Committee
Member of Placement Cell Committee
Vivek Vahini Committee

Academic year 2018-19

Members of Placement Cell
Member of Anti-Smoking Committee
Anti-Ragging Committee (Convener)
Member of NSS Committee
Member of (IQAC) Feedback analysis committee
Vivek Vahini Committee

Academic year 2019-20

Member of Anti-Smoking Committee
Anti-Ragging Committee (Convener)
Member of Competitive Exam Committee
Member of OBC Cell
Member of IQAC Steering Sub Committee
Vivek Vahini Committee
Member of NSS Committee

Academic year 2020-21

Member of Gymkhana & Sports Committee
Electricity and Sound System (Convener)
Anti-Ragging Committee (Convener)
Member of Yuva Jagar Abhiyan (Yuvak Kalyan Committee)
Member of Science Association Committee

Member of Life long Learning & Self-Funded Courses Committee
Member of Competitive Exam Committee
Member of OBC Cell Committee
Member of IQAC Steering Committee
Member of B. C. Cell. & Standing Committee
Member of NIRF Committee

Academic year 2021-22

Member of Gymkhana & Sports Committee
Electricity and Sound System (Convener)
Anti-Ragging Committee (Convener)
Organization of Special Programme for Advanced & Slow Learners (Remedial Coaching) (Convener)
Member of University Examination & Result Analysis Committee
Member of Continuous Internal Evaluation Committee
Member of Science Association Committee
Member of Life long Learning & Self-Funded Courses Committee
Member of Competitive Exam Competitive & Career Guidance Committee
Member of IQAC Steering Committee
Member of NIRF Committee
AISHE Nodal Officer

Academic year 2022-23

Member of Gymkhana & Sports Committee
Member of Lead College Committee
Member of Equal Opportunity Center
Sound System Committee (Convener)
Anti-Ragging Committee (Convener)
Remedial Coaching Committee (Convener)
Member of University Examination Committee
Member of Continuous Internal Evaluation Committee
College Website and Online Feedback Committee (Convener)
Member of Science Association Committee
Member of Time Table Committee
Member of Competitive Exam Competitive & Career Guidance Committee
Member of IQAC Steering Committee
Member of NIRF/MIS Committee
AISHE Nodal Officer

18.Extension Work:

- 1) Worked on Election Commission Duty as Presiding Officer.

19.Membership in Professional Associations:

- 1) Member of Shivaji University Mathematics Teachers Association
- 2) Member of Shivaji University Teachers Association
- 3) Member of Indian Society for Probability and Statistics
- 4) Member of The Indian Science Congress Association
- 5) Member of Indian Mathematics Society