

## CURRICULUM VITAE

1. Name : Dr. Amjad Shaikh  
2. Designation : Assistant Professor  
3. Office Address : AKI's Poona College of Arts,  
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4. Date of Birth : 13:04:1981

### 5. Academic Qualification

Degree	Year	Institution/ Board	Country
Ph.D.	2018	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	India
M.Sc.	2004	Savitribai Phule Pune University, Pune.	India
B.Sc.	2002	Savitribai Phule Pune University, Pune.	India

### 6. Teaching Experience

Duration	Position Held	Organization
28/08/2005 to 27/08/2012	Assistant Professor	AKI's Poona College of Arts, Science and Commerce, Pune
16/09/2012 to 20/09/2013	Lecturer	BTI, Bahrain/Lecturer, Kingdom of Bahrain.
04/10/2013 to present	Assistant Professor	AKI's Poona College of Arts, Science and Commerce, Pune.

7. Ph.D. Topic : Study of Fractional Differential Equations and its Applications

**8. Area of Interest** : Fractional Calculus, Modeling and Simulations, Computational and Numerical methods, Approximation theory, Special functions.

**9. Courses Taught** : Metric Spaces, Real Analysis, Group Theory, Algebra, Calculus, Laplace Transform, Numerical Analysis, Analytical Geometry. Ordinary differential equations, Financial Mathematics.

**10. Other Innovative Activities** :

- Participated in national level faculty development programme on **Online Two Weeks Faculty Development Programme On "Advanced Concepts for Developing Moocs"** from 2<sup>nd</sup> July 2020 to 17<sup>th</sup> July 2020, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, India.
- Participated in national level faculty development programme on **Online Two Weeks Faculty Development Programme On "Managing Online Classes and Co-Creating Moocs:2.0"** from 18<sup>th</sup> May 2020 to 3<sup>rd</sup> June 2020, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, India.
- Participated in national level faculty development programme on **Applications of Mathematical software in teaching and research** from 25<sup>th</sup> June 2019 to 4<sup>th</sup> July 2019, organized by KTHM College, Nashik, India.
- Participated in the "UGC Sponsored Refresher course" in Mathematics, during 4-24<sup>th</sup> July 2018 at **Central University of Hyderabad, Hyderabad.**
- Participated in "UGC Sponsored Orientation Course" during 02 Feb 2016 to 03 March 2016 organized by UGC-Academic Staff College, **Aligarh Muslim University, Aligarh.**

#### **11. Membership of Learned Societies and Administrative Bodies;**

- Life Member of Indian Mathematical Society (IMS), Pune.
- Life Member of Indian Science Congress (ISC), Kolkata, West Bengal.
- Life Member of Marathwada Mathematical Society (MMS), Aurangabad.
- Member of T.Y.B.Sc. Mathematics Syllabus restructuring committee, March 2021.

- Member of S.Y.B.Sc. Mathematics Syllabus restructuring committee, Feb 2020.
- Member of F.Y.B.A. Mathematics Syllabus restructuring committee, March 2019.
- Member of Internal Quality Assurance Cell (IQAC), Poona College, Pune
- Member of Admission Committee, Poona College, Pune
- Member of Regional guidance center for competitive examination cell, Poona College, Pune.

## **12. Abroad Visits**

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## **13. Publication Details**

- a) Name of the Journals/ Books in which papers are published**
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- Transist dark energy and thermodynamical aspects of the cosmological model in teleparallel gravity, *Pramana - J Phys* 95, 19 (2021). <https://doi.org/10.1007/s12043-020-02047-z>.
- Analysis and Dynamics of Fractional Order Mathematical Model of COVID-19 in Nigeria Using Atangana-Baleanu Operator, *Computers, Materials & Continua*, **Vol.66, No.2, 2021**, pp.1823-1848, [doi:10.32604/cmc.2020.012314](https://doi.org/10.32604/cmc.2020.012314).
- A mathematical model of COVID-19 using fractional derivative: outbreak in India with dynamics of transmission and control, *Advances in Difference Equations*, (2020) 2020:373, (2020) 2020:373, <https://doi.org/10.1186/s13662-020-02834-3>.
- Application of Adomian Decomposition Method to Solve the Fractional Mathematical Model of Corona Virus, *J. Math. Comput. Sci.* 10 (2020), No. 5, 1327-1339, <https://doi.org/10.28919/jmcs/4624>
- Solution of fractional kinetic equations involving class of functions and Sumudu transform, *Advances in Difference Equations*, (2020) 2020:39, <https://doi.org/10.1186/s13662-020-2513-6>.
- Impulsive initial value problems for a class of implicit fractional differential equations, *Computational Methods for Differential Equations*, Vol. 8, No. 1, 2020, pp. 141-154.
- Transmission dynamics of fractional order Typhoid fever model using Caputo–Fabrizio operator, *Chaos, Solitons and Fractals*, 128 (2019) 355-365. <https://doi.org/10.1016/j.chaos.2019.08.012>.
- Analysis of differential equations involving Caputo–Fabrizio fractional operator and its applications to reaction–diffusion equations, *Advances in Difference Equations*, (2019) 2019:78, <https://doi.org/10.1186/s13662-019-2115-3>.
- Hypersurface-homogeneous modified holographic Ricci dark energy cosmological model by hybrid expansion law in Saez–Ballester theory of gravitation, *Journal of Astrophysics and astronomy*, (2019)40:25.
- Solution of Non-Linear Fractional Differential Equations by Variational Iteration Method And Applications, *Far east journal of mathematical sciences*, 110(1)(2019), 113-129.
- Approximate solutions of a generalized Hirota-Satsuma coupled KdV and a coupled mKdV systems with time fractional derivatives, *Malaysian journal of mathematical sciences*. 12(2)(2018) 173-193.
- Existence and uniqueness of integrable solutions of fractional order initial value equations, *Journal of Mathematical Modelling*, 6(2)(2018) 137-148.
- Study on Approximate Solutions of Fractional Order Biological Population Model, *Journal of Emerging Technologies and Innovative Research*, 5(12)(2018), 174-180.

- Impulsive Initial Value Problems for a Class of Implicit Fractional Differential Equations, Computational methods for fractional differential equations, Vol. 8, No. 1, 2020, pp. 141-154, DOI:10.22034/cmde.2019.9455.
- Fractional complex transform for approximate solution of time fractional Zakharov-Kuznetsov equation , International journal of pure and applied mathematics. 16(4)(2017), 913-927.
- Approximate solutions of time fractional Kawahara and modified Kawahara equations by fractional complex transform, Communications in numerical analysis. 2(2)(2016), 218-229.
- Numerical Solutions of time fractional Fornberg-Whitam and modified Fornberg-Whitam equations using new iterative method, Asian journal of mathematics and computer research. 13(2)(2016), 66-76.
- The New iterative method for approximate solutions of time fractional Kdv, K(2,2), Burgers and cubic Boussinesq equations , Asian Research Journal of Mathematics. 1(4)(2016),1-10.
- Solving time fractional Sharma-Tasso-Olevers equation using fractional complex transform with iterative method, British Journal of Mathematics and Computer Science. 19(1)(2016),1-10.
- Properties of Caputo Operator and Its Applications to Linear Fractional Differential Equations, Int. Journal of Engineering Research and Applications, 5(5) (2015), 22-27.

**b) Papers published in Conferences / Seminars**

- **NIL**

**c) Papers presented in Conferences / Seminars**

- Presented a research paper entitled “Analysis of multi term fractional differential equation using variational iterative method” in **International Conference on Recent Advances In Mathematical Sciences And Applications** organized by Department of Mathematics, Gayatri Vidya Parishad College of Engineering Vishakhapatnam, during 19-22<sup>nd</sup> December 2017.
- Presented a research paper entitled “On efficient method for solving systems of Fractional partial differential equations” in **International Conference on Mathematical Analysis and its Applications** Organized by Department of Mathematics, Dayanand science college, Latur during 5-9<sup>th</sup> March 2017.

- Presented a paper entitled “The New Iterative Method for Approximate Solutions of Time Fractional Kdv, K(2,2)Equations” in **National Conference on Pure and Applied Mathematics**” Organized by Department of Mathematics, Nowrosjee Wadia College, Pune during 27-28<sup>th</sup> April 2017.
- Presented a paper entitled “The role of Mathematical software for computer based Teaching-Learning in Mathematics” in **International Conference on Contemporary Issues in Computer Science, Applications and Technology**” Organized by Department of Computer science, Poona College of Arts, science & Commerce, Pune on 18<sup>th</sup> Feb 2017.
- Presented a paper entitled “An Application of New Iterative Method to a generalized time fractional Kdv equation” in **National Conference on Recent Advances in Mathematics** organized by Department of Mathematics, Mrs. K.S.K. Alias Kaku Arts, Science, Commerce College, Beed during 21- 23 January 2016.
- Presented a paper entitled “On the Solution of Fractional Differential Equation using Laplace & Sumudu Transform Method” in **National Conference on ETRASECT** organized by Department of Mathematics, Jodhpur Institute of Engineering and Technology, Jodhpur, during 20- 21 February 2015.
- Presented a paper entitled “A study of ICT tools of particular relevance to mathematics and applications” in **National Conference on Impact of ICT in Education** organized by Department of Mathematics, Poona College of Arts, Science & Commerce, Pune during 23- 24 January 2015.
- Presented a paper entitled “Properties of Caputo operator and its application to linear fractional differential equations” in **National Conference on Recent Advances in Mathematics** organized by Department of Mathematics, Deogiri College, Aurangabad during 23- 25 December 2014.

#### **14. Participation in National/International One Week -duration Workshops**

- Participated in national level faculty development programme on Online Faculty development program on LaTeX from 28<sup>th</sup> April 2020 to 2<sup>nd</sup> May 2020, organized by Spoken Tutorial Project, IIT Bombay, Funded by National Mission on Education through ICT, MHRD, Govt. of India.
- Participated short term training Programme on FCITSFTCES organized by Department of Applied Mathematics & Humanities, **Sardar Vallabhbhai National Institute of Technology, Surat** during 30th Sep to 04th Oct 2015.

#### **15. Participation in Conferences / Seminars / Workshops;**

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**16. Contributions to Corporate Life**

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**17. Supervising the Ph.D. Candidates:**

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(Dr. Amjad Shaikh)